

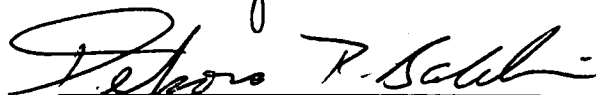
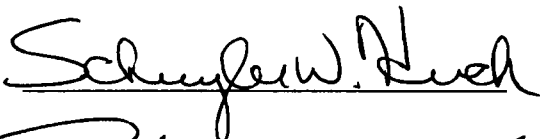
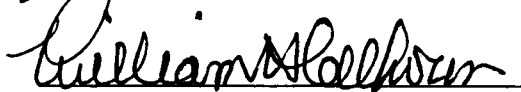
To the Graduate Council:

I am submitting herewith a dissertation written by Jeffery Neal Swartwood entitled "An Assessment of Neurophysiological, Behavioral, and Performance Differences Between ADHD and NON-ADHD Children." I have examined the final copy of this dissertation for form and content and recommend that it be accepted in partial fulfillment of the requirements for the degree of Doctor of Philosophy, with a major in Psychology.



Joel F. Lubar, Major Professor

We have read this dissertation
and recommend its acceptance:



Accepted for the Council:



Associate Vice Chancellor
and Dean of The Graduate School

AN ASSESSMENT OF NEUROPHYSIOLOGICAL, BEHAVIORAL, AND
PERFORMANCE DIFFERENCES BETWEEN ADHD AND NON-ADHD CHILDREN

A Dissertation

Presented for the

Doctor of Philosophy

Degree

The University of Tennessee, Knoxville

Jeffery Neal Swartwood

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ABSTRACT

This study examines ADHD from the perspective of neurological, behavioral, and performance data. Subjects were twenty-three nine to eleven year old ADHD boys with complaints of hyperactivity and twenty-three matched controls. Differences between groups were investigated using referential nineteen-channel EEG spectral analysis, cortical event related potential data, rating scale data, and continuous performance test data. Additionally, physiological data was correlated with behavioral data to reveal consistencies. Results from the behavioral data were consistent with previous research. ADHD subjects had significantly deviant ratings on the parental rating scale when compared with controls. Additionally, control subjects performed significantly better on the continuous performance test, with fewer errors, faster reaction times, and less variability in reaction time. EEG results indicate differences between ADHDs and controls primarily in the alpha bandpass. Mann, Lubar, Zimmerman, Miller, & Muenchen, 1992 found consistent differences between ADHD and control subjects in the theta and beta bandpasses for central and posterior regions. The present study found the two groups to differ primarily in the alpha bandpass, with evidence of increased alpha in posterior regions during baseline in the ADHD group compared with normal controls. Additionally, ADHD subjects showed decreased alpha in left frontal regions when reading. These results indicate that ADHD subjects with a hyperactivity component may have distinctively different neurological profiles than ADHD subjects without hyperactivity. Finally, correlations between EEG and behavioral measures showed few consistent relationships, with differential relationships found depending on a complex interaction of location, condition, and group.

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CHAPTER I

ATTENTION DEFICIT HYPERACTIVITY DISORDER: AN OVERVIEW

Among the psychiatric diagnoses of childhood, Attention Deficit Hyperactivity Disorder is one of the most illusive. From its inception, this diagnosis has had difficulties establishing itself as a distinct syndrome. These difficulties center around such issues as poor diagnostic reliability, low levels of agreement across different measures of hyperactivity, failure of the cardinal symptoms - hyperactivity, inattention, and impulsivity - to cluster together within samples of ADHD children, lack of differentiation from conduct disorder, and lack of a single etiology or a consistent response to treatment (Barkley, 1981; Ross & Ross, 1982; Rutter, 1983; Whalen, 1983). Part of the problem may be that the current descriptors of the disorder are too broad. Historically, there has been much professional debate regarding the appropriate diagnostic criteria, as well as appropriate diagnostic labels, for the cluster of symptoms now known as Attention Deficit Hyperactivity Disorder. Diagnostic labels used to describe the syndrome include Minimal Brain Dysfunction (DSM, 1952), Hyperkinesis (DSM II, 1968), Attention Deficit Disorder (with or without hyperactivity or residual type) (DSM III, 1980), and Attention Deficit Hyperactivity Disorder (DSM III-R, 1986). The diagnostic classifications change from very broad classifications, such as MBD, to more refined classifications such as ADD+ and ADD-. However, the DSM III-R classification system once again broadens the diagnostic classification to one label, ADHD, without subtyping on hyperactivity. The DSM III-R criteria for the diagnosis of ADHD consists of a list of 14 behavioral symptoms, 8 of which must be present in addition to characteristics B and C listed

below. The diagnostic criteria for 314.0, Attention Deficit Hyperactivity Disorder is as follows:

Note: Consider a criterion met only if the behavior is considerably more frequent than that of most people of the same mental age.

A. A disturbance of at least six months during which at least eight of the following are present.

1. often fidgets with hands or feet or squirms in seat (in adolescents, may be limited to subjective feelings of restlessness)
2. has difficulty remaining in seat
3. is easily distracted by extraneous stimuli
4. has difficulty awaiting turn in games or group situations
5. often blurts out answers to question before they have been completed
6. has difficulty following through on instructions from others (not due to oppositional behavior or failure of comprehension), e.g., fails to finish chores
7. has difficulty sustaining attention in tasks or play activities
8. often shifts from one uncompleted activity to another
9. has difficulty playing quietly
10. often talks excessively
11. often interrupts or intrudes on others, e.g., butts into other children's games
12. often does not seem to listen to what is being said to him or her
13. often loses things necessary for tasks or activities at school or at home (e.g., toys, pencils, books, assignments)

14. often engages in physically dangerous activities without considering possible consequences (not for the purpose of thrill-seeking), e.g., runs into street without looking

B. Onset before age seven.

C. Does not meet the criteria for Pervasive Developmental Disorder

It should be noted that the DSM III-R does not require that symptoms of inattention, impulsivity, and motor activity all be present for an ADHD diagnosis, therefore this diagnostic classification may include children who have different clusters of symptoms. It is possible that more refined diagnostic measures may elucidate distinct subtypes that would address this criticism. Additionally, the current criteria for making an ADHD diagnosis do not distinguish this disorder from other disorders that have an attentional component such as dysthymia.

Additionally, family dynamics, problems in school, and traumatic brain injury can produce attentional problems. So which constellation of symptoms warrants a diagnosis of ADHD?

Do we diagnose attentional problems stemming from the above etiologies as ADHD, or do we describe them as secondary symptoms to a more pervasive disorder? Answering this question is difficult and depends on a number of diagnostic criteria. To sort out this lack of consensus, let us review the relevant research on ADHD's most basic defining characteristics.

Historically, the three main components of Attention Deficit Disorder are inattention, impulsivity, and hyperactivity; Barkley (1991) refers to these as the "holy trinity of ADHD".

However, even the core components of ADHD are clusters of symptoms which are themselves ambiguous, suffering from problems of measurement and definition.

Inattention

Inattention is viewed as central to an ADHD diagnosis, many problems can present with attentional components. For instance, children with learning disabilities may appear to have attention deficits when attempting schoolwork which is far beyond their capabilities. Similarly, gifted children may become bored with assignments below their abilities and appear to suffer from attentional problems. However, for ADHD children, research has shown that it is not attention in general that is impaired, but specific aspects of attention. It has been shown that there are no differences between ADHD children on and off Methylphenidate (Ritalin), a major pharmacological treatment for the disorder, on measures of reactive or orienting attention. However, significant differences between groups on measures of selective and focused attention have been reported (Porges, Walter, Korb, and Sprague, 1975). Studies examining measures of vigilance or sustained attention have also shown ADHD children's performance to be impaired, especially if the task is timed by the experimenter rather than self-timed by the child (Sykes, Douglas, Weiss, & Minde, 1971; Sykes, Douglas, & Morgenstern, 1973; Greenberg, 1987). And while it is well established that ADHD children make more errors on continuous performance tests than normal controls, this may be attributed to a number of different attention related problems such as: a failure to ignore non-salient stimuli, a failure to discriminate between stimuli, or a failure to inhibit an ongoing response tendency (Douglas, 1983). Thus it appears that many components of attention are impaired in ADHD children, and there is little agreement on how best to define or measure it.

Impulsivity

The second component of ADHD is impulsivity. The assessment of impulsivity has enjoyed relatively little research interest. The work that has been done has typically focused on reaction time and the number of errors made on a given task. For example, the Matching Familiar Figures Test is an often used test of impulsivity. During this test the subject is instructed to select from an array of pictures the one picture that is identical to the standard. Research has shown that ADHD children have abnormal reaction times and make more errors than control children (Sykes, et. al., 1971). Additionally, research on continuous performance tests such as the Test of Variables of Attention (T.O.V.A.) indicates that ADHD children have increased errors of commission (responding to the non-target stimulus) and abnormal reaction times, suggesting a problem with impulsivity (Greenberg, 1987). However this research cannot be used singularly to diagnose ADHD. Children with conduct disorder and learning disabilities can show similar patterns. Therefore, the unique contribution of impulsivity to the diagnostic picture of ADHD appears to be questionable.

Hyperactivity

✂ The final component of Attention Deficit Disorder is hyperactivity. Hyperactivity has become one of the most widely used terms in child psychiatry (Aman, 1984). One of the possible reasons for this overuse of the term is the ease with which hyperactivity can be measured using a behavior rating scale. Behavior rating scales are forms for a parent's evaluation of a child's behavior, a teacher's evaluation of a student's behavior, or individual forms to rate one's own behavior (Conners, 1969, 1986; Edelbrock and Rancurrelo, 1985; McCarney, 1989). Forms usually take a few minutes to fill out, requiring the respondent to

rate certain behaviors in different situations. Given this ease of administration, many clinicians use behavior rating scales in their diagnostic battery. However, hyperactive behavior is a subjective judgement of behavior which is often based on personal tolerance and situational variables. Budenhagen and Sickler (1969) proposed that hyperactive behavior is that aspect of a person's behavior which annoys the observer. Common items on behavior rating scales for hyperactivity such as "moves about while seated, fidgets, squirms, etc." or "makes excessive noise" (McCarney, 1986) may involve subjective judgements based on the parent's or teacher's annoyance level. In fact, some behaviors might be seen as "energetic" by one person and "hyperactive" by another; it appears that hyperactive children do not differ in amount of overall motor activity, but rather in the quality or type of activity (Rie and Rie, 1980). Once again, a core component of the ADHD syndrome is an ambiguous collection of symptoms which elude operational definition.

CHAPTER II

DIFFERENTIAL DIAGNOSIS AND COMORBIDITY

The complexity surrounding the cardinal traits of ADHD has led to numerous problems in developing a cohesive definition of the disorder. Consequently, diagnoses of ADHD often have considerable overlap with other disorders. Take for example the often reported comorbidity of ADHD and Dyslexia. Shaywitz and Shaywitz (1988) reported that 11% of ADHD children had dyslexia. This finding is not greater than would be expected in the normal population. However 33% of dyslexic children had ADHD, which is far greater than would be expected in the normal population. Why then do we see greater than expected numbers of dyslexic children with ADHD and not ADHD children with dyslexia? Part of the reason may be a definitional overlap of the two disorders. Both disorders are derived from an earlier concept of minimal brain dysfunction and therefore tend toward similar diagnostic criteria. Another possible reason for the one-way comorbidity of the two disorders may stem from inappropriate diagnosis of the supposed ADHD component of dyslexic children. Consequently, conclusions as to any true comorbidity of the two disorders are tentative. For more definitive conclusions to be drawn, more comprehensive psychometric and neurometric assessments need to be made. As the following outline will show, these two disorders yield distinct profiles on psychometric and neurometric tests. Given such distinct profiles the clinician is better able to assess what may be the pervasive syndrome and what may only be a secondary symptomatic phenomenon. That is, if proper testing can show the child to be

dyslexic then any attentional problems may only be a secondary symptomatic response to insufficient sensitivity to the dyslexic child's needs in the school system.

The first part of any thorough assessment is a detailed history. One of the first pieces of information elicited in a good history is familial history of the disorder. / ADHD children have an increased incidence of ADHD in their families/ An increased incidence of psychiatric diagnosis (antisocial personality, substance abuse, or hysteria) in family history is also seen. In contrast, dyslexic children do not generally have a high incidence of ADHD in their family histories, nor are there prevalent psychiatric diagnoses. In addition to family history, another vital piece of information to obtain is age of onset of symptoms. / ADHD children usually present with symptoms from early childhood (DSM, 1968). Dyslexic children with inattentiveness as a secondary symptom may not show any difficulties until school age. DSM-III-R criteria state that for a / ADHD diagnosis, symptoms must be present before the age of seven. /

While a detailed history is vital to an appropriate diagnosis, considerable importance must be placed on objective test scores. One of the most commonly used tests is the Wechsler Intelligence Scale for Children, currently in its third revision (WISC-III) (Wechsler, 1981). In the diagnosis of Attention Deficit Disorder three sub-test of the WISC-III are particularly important. These are the Arithmetic, Digit Span, and the Coding sub-sections. It is believed that these three sections are sensitive to attentional problems. However, research has provided little support for this claim (Henry & Witman, 1981). Furthermore, the issue of differential diagnosis of ADHD from dyslexia is even more complicated by the fact that these three indices

appear to be a more robust indicator of dyslexia than Attention Deficit Disorder. Therefore, using this instrument in isolation for the diagnosis of either disorder would lead to many false positives.

To truly differentiate these two disorders more testing is required. Behavior rating scales are by far the most commonly used test, but suffer from reliability problems due to their inherent subjectivity (Whalen and Henker, 1976; Werry and Sprague, 1974). Another test that can be used in the assessment of ADHD is the Wisconsin Card Sorting Test (Heaton, 1981). This test provides a global measure of frontal lobe functioning which is believed to be one of the core difficulties of ADHD children (Chelune & Baer, 1986). Dyslexic children would presumably show a normal profile on this test since frontal lobe functioning is not implicated in that syndrome. A continuous performance test is also a commonly used test for assessing differences between normal and clinical populations of children (Gordon, 1983), the Test of Variables of Attention (T.O.V.A.) is one such test which is specifically designed to distinguish between normal and ADHD children (Greenberg, 1987).. During this test subjects are required to indicate when a target object has appeared on the screen and to refrain from responding when objects similar to the target appear. The T.O.V.A. provides a vigilance measure of the child's attention. It is also a non-linguistic based test, so the test can be used on dyslexic populations. Additionally, the inclusion of an achievement test would further strengthen a differential diagnostic assessment of Attention Deficit Disorder and dyslexia. The two most commonly used are the Wide Range Achievement Test (WRAT) and the Woodcock Johnson Tests of Achievement. Results from these types of tests may show an isolated deficit in one

area (dyslexic profile) or more diffuse pattern (attentional profile). However, they cannot be used alone due to the fact that many school age/ADHD children may lag behind their classmates in certain subjects due to inattention.

All of the above tests provide a comprehensive picture of a child's attentional capabilities.

One could theoretically list many additional tests that could be used to diagnose an attention deficit. However, the key point is to gather enough information from multiple sources so that none is weighted too heavily. As the above outline demonstrates, with enough information one should be able to tease out an attention deficit from dyslexia. A similar process would be used to examine other disorders with a possible attentional component. For example, a traumatic brain injury often leaves the victim with substantial attentional problems. A detailed evaluation would show that the individual does not meet all the criteria for an Attention Deficit Disorder diagnosis, but rather the attentional problems are secondary to the injury. Differentiating primary from secondary attentional problems does not negate or minimize secondary problems, but rather separates these in a diagnostic sense to better clarify the etiological underpinnings of ADHD. Such distinctions are vital if we are to ever truly understand ADHD as a unique syndrome.

CHAPTER 3

SUBTYPING OF ADHD

Part of the problem in defining ADHD lies in the fact that there may be more than one type of the disorder. As mentioned previously, under the third edition of the DSM, ADHD could be diagnosed with hyperactivity (ADD/+H) or without hyperactivity (ADD/-H). The most current version of the DSM (DSM III-R) has omitted the choice of diagnosing the disorder with or without hyperactivity and changed the name accordingly to Attention Deficit Hyperactivity Disorder (ADHD). Despite this merging of the attentional side of this disorder with the motor side in the DSM III-R, many researchers are still interested in the possibility of separating these two factors on some dimension and differentiating at least two sub-types of the disorder (Barkley, DuPaul, and McMurray, 1990).

In the attempt to subtype ADHD on issues of hyperactivity, many researchers have developed behavioral descriptions unique to each aspect of the disorder. It is believed that these descriptors will provide a foundation for distinguishing unique subtypes of the ADD. Research has generally found children with ADD/+H to be more aggressive, more rejected by peers, lower in self-esteem, and more impaired in cognitive and motor test performance than ADD/-H children (Berry, Shaywitz, & Shaywitz, 1985; King & Young, 1982). In comparison, children with ADD/-H have been described as anxious, daydreamy, lethargic, and sluggish relative to ADD/+H children (Edelbrock, Costello, & Kessler, 1984; Lahey, Shaughency, Hynd, Carlson, & Nieves, 1987; Lahey, Shaughency, Strauss, & Fame, 1984). These findings

take on considerable importance when one considers that behavioral ratings play a major role in the diagnosing of ADHD.

Also of importance is the degree of academic success seen in ADHD children with or without hyperactivity. A review of the research indicates mixed results on this issue. Some studies have found no difference on academic achievement or the number of learning disabilities between these two subtypes (Barkley, DuPaul, & McMurray, 1990, 1991; Carlson, Lahey, & Neeper, 1986). However, other studies have found differences in the number of learning disabilities associated with the two subtypes, with ADD/-H having more learning disabilities (Edelbrock et. al., 1984). These findings are important for the syndrome validity of ADHD. If there is a high association between a comorbid disorder and ADHD, the specificity of the ADHD diagnosis (including possible subtypes) becomes suspect.

Additional research on ADHD has attempted to differentiate ADHDs from normals according to measures of frontal lobe functioning. Frontal lobe dysfunction has long been implicated in disorders of attention (Blau, 1936). More recent evidence has continued to find such differences and have begun to explore the possibility of subtyping ADHD on hyperactivity. The first study to specifically address frontal lobe function in terms of ADHD with and without hyperactivity was conducted by Carlson et. al. in 1986. These researchers used the Stroop test to assess possible frontal lobe dysfunction between subtypes. During the Stroop Test subjects are first asked to read a list of color names written in black ink. Next the subjects are asked to identify color patches of ink. The final portion of this test, the interference portion, asks the subject to name the color of ink a word is written in. The words

are names of colors which do not match the color of ink they are written in. Results from the study indicate that ADHD subjects with and without hyperactivity differed from a control group. However, subtypes of ADHD were not found to differ from each other. Therefore, the Stroop test as a measure of frontal lobe dysfunction failed to distinguish subtypes of ADHD.

The next study to address this issue was conducted by Trommer, Hoeppner, Lorber, and Armstrong in 1988. Their measure of frontal lobe functioning was the Go-No-Go test. This test requires the subject to initiate a motor response to the "Go" stimulus and to inhibit a motor response to a "No-Go" stimulus. This test has been found to be sensitive to frontal lobe lesions in adults; possibly more sensitive to lesions in the right hemisphere (Heilman, Voeller, and Nadeau, 1991). Their results indicate ADHD/-H subjects made more errors on the first trial only than ADHD/+H subjects. These findings were not entirely expected. It was hypothesized that the ADHD/+H subjects would have more difficulty with a primarily motor task. These results further underscore our incomplete understanding of this disorder.

The most recent study examining ADHD with and without hyperactivity in terms of frontal lobe dysfunction was conducted by Barkley, Grodzinsky, and DuPaul in 1992. Their study is by far the most comprehensive to date in terms of the number of dependent measures used. All of the following tests were performed to assess any possible difference in frontal lobe functioning in ADHD children with or without hyperactivity: Continuous Performance Test, Grooved Pegboard Test, Controlled Word Association Test, Hand Movements Scale, Porteus Mazes, Rey-Osterrieth Complex Figure, Stroop Color-Word Test, A & B Trail Making Test, and the Wisconsin Card Sorting Test. All of these tests have had some support for its use in

assessing frontal lobe functioning. Results from this study indicate no significant differences between ADHD children with and without hyperactivity. However, the authors stress that although their assessments procedures were thorough, their study was limited by a small sample size ($N = 12$) and a resulting reduction in statistical power. They encouraged further research along these lines using larger samples.

Research on the behavioral and academic differences between ADHD children with and without hyperactivity are far from conclusive. Although some evidence has supported a different behavioral conceptualization of each subtype, academic differences are generally mixed. Additionally, results from the frontal lobe studies provide little empirical foundation for two subtypes of ADHD. Clearly, more research needs to be done before and conclusions can be drawn regarding the possibility of subtyping ADHD on hyperactivity. However, with the current professional controversy regarding ADHD+ and ADHD- hyperactivity, the DSM IV proposes to define the disorder as ADHD 1. Inattentive type, 2. Hyperactive type, and 3. Mixed type. Whether or not the different subtypes occur due to distinct etiologies, their clinical profile is indeed different and may be a useful descriptor.

CHAPTER IV

NEUROMETRIC MODELS

Neurometric models of ADHD may further help us in distinguishing ADHD from normal controls, as well as in possible subtyping of the ADHD diagnosis. Such models of ADHD have gained considerable attention in recent years. This renewed interest is actually a revival of earlier interest in the neurological underpinnings of this disorder. The diagnosis of Attention Deficit Hyperactivity Disorder has its roots in an earlier diagnosis of Minimal Brain Dysfunction. Minimal Brain Dysfunction was principally a neurological diagnosis. Patients evidencing subtle neurological problems not encompassed by more profound disorders received this diagnosis. Later, it became necessary to refine the often vague nature of a Minimal Brain Dysfunction diagnosis. A new and presumably more cohesive diagnosis of Attention Deficit Hyperactivity Disorder evolved. Until relatively recently, however, technology has not been advanced enough to allow diagnosticians to pursue stringent neurological measures. Instead, behavioral measures were heavily relied on. With the recent advances in neurometric technology, diagnosticians are now able to more directly assess this disorder. To guide their understanding of the data derived from these instruments, neurometric models of attention have been developed. Generally, these models center on three main areas: neuroanatomical, neurochemical, or neurophysiological.

Neuroanatomical models of Attention Deficit Hyperactivity Disorder deal with the location of brain areas that underlie attentional and motoric responses. Neurochemical models investigate the role of neurotransmitters in the maintenance of attention. Neurophysiological

models attempt to understand both the chemical and anatomical aspects of attention in a functioning system. The following is a brief review of each of these models.

Neuroanatomical Model

This model of attentional and motoric responses describes a complicated network of neurons interconnecting certain subcortical and cortical structures. The structures generally thought to be involved are the frontal lobes, thalamus, hypothalamus, and the Reticular Activating System (RAS) (Hynd, Hern, Voeller, and Marshall, 1991). Higher cortical structures including the primary sensory cortex and association cortices located in the regions of the inferior parietal lobe and the prefrontal and temporal sulcus are connected to lower brain structures via complex neuronal pathways. These connections appear to assist in the processing of primary sensory information and direct both attention and subsequent motoric activity. For example, there is a pathway from the polymodal cortex (prefrontal and temporal sulcus) to the frontal lobes that in turn sends projections to the parietal lobe. It is believed that these connections govern executive control of attention in relation to time (Voeller, 1991). It is well documented that ADHD children show impaired performance on tests that require the sustained ability to detect stimuli over time as is seen in continuous performance test research on vigilance (Gordon, 1983; Greenberg, 1987; Nuechterlein, 1983). Additionally, a deficit in this pathway in children with ADHD is consistent with behavioral data. Children with ADHD often have difficulty delaying gratification in the present for a greater reward in the future (Barkley, 1991). This requires the child to pay attention to the value of a consequence both now and in the future.

Another neurological pathway implicated in Attention Deficit Hyperactivity Disorder involves a pathway from the mesencephalic reticular formation to the nucleus reticularis lateralis of the thalamus. The nucleus reticularis lateralis inhibits thalamic relay. Therefore, when salient sensory information is sent from the reticular formation of normal individuals, activity of the nucleus reticularis lateralis is inhibited. That is, the nucleus reticularis lateralis decreases its inhibitory regulation of information allowing the salient stimulus to activate higher brain structures. Non-salient information fails to suppress activity of the nucleus reticularis in normal individuals, thereby, stopping cortical excitation to the non-salient stimuli (Moruzzi, & Magoun, 1949). Any deficit in this neurological pathway would leave the individual with difficulty assessing salient from non-salient information. Once again behavioral data suggest that children with Attention Deficit Hyperactivity Disorder suffer from such deficits. Often these children are found to briefly attend to one stimulus before switching attention to another without regard to saliency of either stimulus.

Both of the above neurological pathways give an example of the specificity of the neuroanatomical models of Attention Deficit Hyperactivity Disorder. The focus on locational specificity is a primary feature of their model. This is in contrast to the neurochemical models which tend to examine gross neurotransmitter functioning.

Neurochemical Model

Much of the evidence for a neurochemical explanation of Attention Deficit Hyperactivity Disorder comes from examining the symptoms of children suffering from von Economo's encephalitis at the beginning of this century. Children suffering from this disorder

exhibited attentional and motor symptoms, adults exhibited symptoms consistent with Parkinson's disease. Since it is known that Parkinson's disease is related to the dopaminergic system, it suggests that the symptoms observed in children may also be related to dopamine. Shaywitz, Yager, and Klopfer (1976) conducted a study investigating the relationship between dopamine and attentional and motoric difficulties. In this study, rats were selectively depleted of dopamine during infancy. As these rats matured, significantly more activity was observed when compared to control rats. This increased activity was found to be partially ameliorated by stimulants. Findings such as these led to a dopamine deficiency model of Attention Deficit Hyperactivity Disorder. As a result of this conceptualization of the disorder, greater use was made of drugs that had a dopamine enhancing effect. It is believed that dopamine agonists increase inhibitory effects of certain nerve cells, and thus decrease general motor activity. Today, drugs such as Amphetamine Sulfate (Dexedrine), Methylphenidate (Ritalin), and (Pemoline) Cylert (all dopamine enhancers) are widely used in the treatment of Attention Deficit Hyperactivity Disorder.

The effective clinical use of dopamine agonists argues strongly for the efficacy of the dopamine deficiency model. However, there are contradictory findings. For example, neuroleptics which have a strong anti-dopaminergic effect, do not appear to interfere with the positive effects of methylphenidate (Gittleman, Klein, & Katz, 1976). Such contradictory findings limit the applied scope of the dopamine deficiency model.

In addition to the dopamine deficiency model of ADHD, a model based on noradrenergic system has also been proposed. According to this model, ADHD individuals

suffer from an altered noradrenergic state. One study which supports this hypothesis was in 1985 by Hunt, Minderaa, and Cohen. In this study, ADHD children were given Clonidine for eight weeks. Their results appear to indicate that Clonidine's inhibitory effect on noradrenergic transmission was responsible for observed improvements in attention. This result, in conjunction with similar findings (Zametkin and Rapoport, 1987; Zametkin, Karoum, and Rapoport, 1985) appear to involve the noradrenergic system in ADHD, however, further research needs to be conducted to clarify this issue. Furthermore, one should keep in mind that any one neurotransmitter has an extremely diffuse effect across the entire brain. Therefore, it is not likely that any explanation of Attention Deficit Hyperactivity Disorder is going to be based solely on one neurotransmitter. A more likely model is one that examines both neuroanatomical and neurochemical aspects. Neurophysiological models are based on such comparisons.

Neurophysiological Model

Neurophysiological models tend to be less reductionistic than the two preceding models. Their focus is not on the parts of the system, but on how the system functions as a whole. That is, how both the brain's neurochemistry and neuroanatomy interact to form a unified functional system. Research following this model is sparse and generally consists of studies using some form of neuroimaging system. One such neuroimaging system has subjects inhale a radioactive gas and, with emissions tomography, measures regional cerebral blood flow. Lou, Henriksen, Bruhn, Borner, and Nielsen used this type of system in a 1989 study of ADHD children. Their study examined two groups of ADHD children, one with pure ADHD

and the other with ADHD and a host of other neurological symptoms, and compared them to a control group. In addition to examining how ADHD children differed from normal control children, the researchers also administered methylphenidate to the ADHD groups to examine the effects of this medication on cerebral blood flow. Their results showed differences in cerebral flow between pure ADHDs and controls and between mixed ADHDs and controls. Patients with pure ADHD showed a decrease in metabolism in the right striatal region whereas patients with mixed ADHD showed a decrease in metabolism in right and left striatal regions. Methylphenidate appeared to increase metabolism to these striatal regions and decrease metabolism in primary sensory regions while the medication was in effect with metabolism returning to baseline levels as the drug wore off.

In contrast to these findings, another study examining medication effects with Positron Emission Tomography found little support for a stimulant effect on glucose metabolism (Matochik, Liebenauer, King, Szymanski, Cohen, and Zametkin, 1994). In this study, PET scans were used to assess the effects of methylphenidate and d-amphetamine on glucose metabolism in adults. Results indicate no statistically significant global or specific metabolic effects for either medication.

Other studies using different neuroimaging systems have found functional differences between ADHD and normal control populations. Research using positron emission tomographic (PET) scans indicates a global reduction of the brain's utilization of glucose in ADHD subjects, which was particularly notable in the right frontal area (Zametkin, Nordahl, Gross, King, Semple, Rumsey, Hamburger, and Cohen, 1990). These studies demonstrate the

unique contribution of these neuroimaging studies to the literature on ADHD. In looking at the individual as functional whole, these neurophysiological studies may be able to detect differences in the ADHD population that strict neurochemical or neuroanatomical methods cannot.

CHAPTER V

ELECTROPHYSIOLOGICAL MEASURES AND DIAGNOSIS

One of the most accessible neurometric techniques under the rubric of the neurophysiological models is the electroencephalogram (EEG). Historically, the EEG has been used to diagnose a variety of medical conditions such as epilepsy, cerebral vascular disorders, tumors, and other neurological disorders (Cooper, Osselson, and Shaw, 1980). More recently, EEG spectral analysis has been shown to be useful in characterizing cognitive and organic neurological abnormalities such as ADHD, learning disabilities, psychiatric disorders, and organic brain disorders (Braverman, Blum, Simadya, 1990; Duffy, 1986; Mann, Lubar, Zimmerman, Miller, and Meunchen, 1992). Additionally, event related potential measures have been shown to successfully differentiate between normal subjects and those with LD and ADHD (Lubar, Gross, Shively, and Mann, 1990; Klorman, Brumaghim, Salzman, Strauss, Borgstedt, McBride, and Loeb, 1988; Satterfield, Schell, Nicholas, and Backs, 1988). A review of both EEG and event related potentials will be presented along with present and historical research using these measures as diagnostics for ADHD.

Event Related Potentials

Events which occur in the external world and are detected by the senses result in changes in the electrical activity of the brain; however, these changes are usually hidden in spontaneous brain activity. The electrical activity induced by these events is commonly called the signal, and the spontaneous brain activity the noise. Techniques for reducing the signal to noise ratio include traditional superimposition which uses photography or a pen writer to trace

electrical brain responses from a repeated stimulus on the same negative or print, and averaging, which involves summing the EEG signals for the duration of interest and dividing by the number of presentations. In this way, the "noise" is reduced, and a waveform called an event related potential is produced. The digital technique of averaging has largely replaced traditional superimposition techniques, and is easily conducted by computer averaging software which is commercially available (Cooper et. al., 1980).

Identification of individual components of event related potential waveforms is based in either spatial or temporal dimensions (Cooper, et. al., 1980). The first negative deflection of the ERP is spatially defined as the N1 component, the first positive inflection the P1, the second negative deflection the N2, etc. Terminology based in temporal dimensions depicts the amount of time in milliseconds from the stimulus onset to the waveform. For example, a positive inflection 300 milliseconds following the stimulus presentation is labeled the P300 component, while a negative deflection occurring 100 milliseconds post-stimulus is labeled the N100.

With event related potentials, cortical changes produced by sensory stimulation as well as cortical changes due to psychological states can be assessed (Johnson, Rolf, and Rebata, 1991). ERPs associated with stimulus detection occur within the first 50 msec; those that are associated with perceptual and cognitive processes occur after the first 50 msec. The components of the ERP which are associated with cognition are believed to be generated from electrical changes in apical dendrites of the cortex, while the stimulus related components are

believed to be generated from subcortical fiber tracts of the sensory pathway that has been stimulated (Krumholz, 1987).

The most frequently studied component of the ERP in ADHD research is the P3 component. The third positive component occurs approximately 300 msec after a target stimulus in a decision making task; it is often labeled the P300. It is easily elicited using an 'odd-ball' paradigm in which a subject is instructed to detect infrequent "target" stimuli that are interspaced with non-target stimuli. The P3 component accompanies the detection of target stimuli; its latency post-stimulus is associated with stimulus evaluation (Cooper, et. al., 1980; Pritchard, 1981), and may reflect processing time (Ford, Roth, Mohs, Hopkins, and Kopell, 1979). It appears that the P3 component has the potential to be a widely used measure for the evaluation of cognitive dysfunction in children (Finley, Faux, Hutchenson, and Amstutz, 1985). Finley, et. al., found that the latency of the P3 component following stimulus presentation correlated negatively with scores on traditional neuropsychological and IQ measures. Additionally, differences in the P3 component between normal and LD groups of children have been widely reported, with LD subjects showing decreased amplitude of P3 (Dainer, Klorman, Salzman, Hess, Davidson, and Michael, 1981; Lubar, Mann, Gross, and Shively, 1992). Research with the P3 component and ADHD children indicates possible deficits in cortical processing, with ADHD subjects displaying smaller amplitudes and longer latencies of the P3 as compared with normal controls (Klorman et. al., 1988; Satterfield, et. al., 1988).

A second, less studied, component which may have important implications for the study of ADHD is the N1 component. The N1 can be easily evoked by auditory, visual, or tactile stimulation; it is most readily visible in frontal regions and at the vertex. The N1 component appears whenever a subject attends to a stimulus and makes a sensory discrimination. The amplitude of this component depends on the intensity of the stimulus, its expectedness, and the attention paid to it (Cooper, et. al., 1980). For this reason, it is commonly used in studies of distribution of attention (Broadbent, 1970; Hink, Fenton, Pfefferbaum, Tinklenberg, and Kopell, 1978). Components of the visual event-related potential, including the N1, have been shown to increase in variability with methylphenidate administration in hyperactive children when subjects went from a task requiring active attention to one requiring passive attention (Hink, et. al., 1978). Additionally, an enhancement of the N1 component in the visual evoked response has been shown to exist in subjects with reading disabilities compared to ADHD subjects (Harter, Anillo-Vento, and Wood, 1986), as well as in deaf subjects compared to normal controls (Neville, Schmidt, and Kutas, 1983). It has been suggested that this enhancement developed in these populations as a result of compensatory mechanisms (Harter, et. al., 1986). However, it is equally plausible that the ADHD group in the Harter, et. al. study had suppressed N1 components as opposed to an enhancement in the dyslexic subjects. With the N1 component related to attention and stimulus evaluation, ADHD children who have difficulty attending to or processing information may produce ERP's that reflect these difficulties when compared to normal controls.

EEG

The first work on the electroencephalogram, abbreviated EEG, was completed on animals around the end of the nineteenth century (Neidermeyer, 1989). Since that time, a vast amount of data has been accumulated on the normal and abnormal human EEG. The EEG is the recording of amplified electrical activity from the scalp. When electrical activity is generated by action potentials in the nerve cells of the brain, it can be visually examined as rising and falling electrical potentials called brain waves. Variability from moment to moment in these brain waves occurs in two dimensions, time and amplitude. The variation in time is referred to as frequency and is expressed in hertz (Hz), or cycles per second. An EEG tracing which rises and falls 4 times in a one second period is said to have a frequency of 4 Hz. When many neurons have action potentials which are rising and falling in synchrony they create different rhythms, or brain wave patterns (Tyner, Knott, and Mayer, 1983). Four general rhythms or frequency bandpasses occur in the EEG; these are delta (< 4 Hz), theta (4-8Hz), alpha (8-13 Hz), and beta (>13 Hz) (Cooper et. al., 1980). Additionally, the waves change in voltage, which is referred to as amplitude. When the voltage increases, amplitude increases; generally, low frequency waves are higher in amplitude than high frequency waves. EEG voltages are extremely small and are measured in microvolts (mV) or millionths of a volt.

Research indicates that the different frequency bands found in the EEG have behavioral correlates (Tyner, et. al, 1983). For example, delta activity is present during sleep in normal individuals. Theta is evident only in small amounts in the normal waking EEG of adults; it is normal only under conditions of drowsiness (Neidermeyer, 1989). Theta is most prominent in central, temporal, and parietal areas, and it tends to be more prominent on the left side than on

the right in all age groups (Tyner, et. al., 1983). In children ages 8 to 14, theta rhythm is more prominent and tends to decrease with age. (Neidermeyer, 1989) Alpha rhythm is best seen when a persons eyes are closed during relaxed wakefulness. Alpha is the most easily recognized activity in the EEG. It is most prominent in the occipital region, with some asymmetry reported; usually the right hemisphere shows increased and higher voltage alpha activity (Tyner, et. al., 1983). Alpha activity is attenuated or blocked by stimulation, particularly visual stimulation. Additionally, it is attenuated by increased vigilance or heightened attentiveness. Beta activity is found in most healthy individuals; it is generally seen in frontal and central regions of the cortex. Beta activity is associated with mental processing and cortical engagement (Lindsley, Bowden, and Magoun, 1949; Neidermeyer, 1989). Additionally, it tends to attenuate with tactile and proprioceptive stimuli, as well as with voluntary movement.

Historically, interpretation of the EEG record was made by visual inspection and depended on recognition of patterns in the EEG and their association with normal or clinical conditions (Cooper, et. al., 1980). In fact, the EEG has been shown to have great clinical utility in the diagnosis of seizure disorders, cerebral vascular problems, tumors, etc. Additionally, research indicates that populations of MBD, ADD, and LD children may have significant deviations from normal in their EEG activity. Findings regarding these subjects indicate patterns of increased slowing, decreased beta activity, and decreased alpha attenuation as compared to controls (Callaway, Halliday, & Naylor, 1983; Grunewald-Zuberbier, Grunewald, & Raske, 1975; Klinkerfuss, Lange, Weinberg, & O'Leary, 1965; Pavy & Metcalf, 1965; Satterfield,

1973; Werry, Delano, & Douglas, 1964). These findings have been criticized, however, due to the inherent subjectivity involved in visual interpretation of the EEG (Ferguson & Pappas, 1979). Additionally, many significant clinical neuropathologies fail to generate obvious discontinuities in the EEG tracing; other differences may have been present but undetectable visually.

Today, the EEG can be analyzed quantitatively and described numerically, this is termed spectral analysis. The EEG can then be evaluated by computer based computations which determine the frequencies present in each signal as well as the amplitudes of the different frequency bands. This is accomplished by using software implementation of the fast Fourier transform of Cooley and Tukey (Duffy, 1986). This lends itself to more objective, reliable interpretations of the EEG. Additionally, spectral analysis has the advantage that it can be performed on an EEG of any duration. Resulting spectra from sequential epochs are averaged to estimate the spectral content of longer time periods. In this way artifact can be eliminated from the record with minimal loss of data or accuracy (Duffy, 1986).

Research on childhood pathology using spectral analysis has led to promising results. Studies of differences between the spectral activity of children with specific learning disabilities such as dyslexia and normal controls indicate that increased slow wave activity, primarily in the left hemisphere can be detected (Duffy, 1986; Flynn and Deering, 1989). Additionally, these differences can be used with discriminate function analysis to correctly classify an individual into a normal or LD group with approximately 90% accuracy (Duffy, Denckla, Bartels, Sandini, & Kiessling, 1980). Other studies on heterogeneous groups of LD children indicate

increased theta activity as well, with group predictability at 81% for normals and 79% for LD subjects (Lubar, Bianchini, Calhoun, Lambert, Brody, & Shabsin, 1985). Additionally, in both the Duffy, et. al., and Lubar, et. al studies, differences between groups are most evident during cognitive tasks as compared with resting baseline EEG.

Research on ADHD using spectral analytic techniques has been limited. Matousek, Rasmussen, & Gillberg (1984) reported that slowing of the EEG increased with severity of diagnosis. That is, children with a diagnosis of MBD, LD, and psychological dysfunction had a greater degree of slow wave activity than children with a singular diagnosis. Additionally, Dykman, Holcomb, Ogelsby, and Ackerman (1982) report decreased beta activity in hyperkinetic, learning disabled, and mixed subjects. Unfortunately, the generalizability of these studies to the ADHD population is limited due to high instances of comorbidity in their subject pools.

Mann et. al. (1992) provide the first spectral analytic study of a carefully selected, homogeneous group of ADD-H boys compared to normal controls. Subjects in the study were free from learning disabilities, seizures, and psychological problems. Additionally, thier primary problems were identified as being inattention and impulsivity, as opposed to hyperactivity. Results indicate that there are distinctive differences between normal control and ADD-H groups on topographic PSA-EEG. Significant findings include more frontal and central theta activity and less temporal and posterior beta activation in the ADD-H group. These differences were found to be more pronounced during cognitive tasks such as reading and drawing, with greater differences during the drawing task than during reading. Additionally,

the ADD-H group showed evidence of increased absolute amplitude; the amplitude distributions across the different frequencys were similar to EEG profiles typical of younger children. This comprehensive study found that predictability for ADD-H group membership based on discriminate function analysis reached 80% for the ADD-H group, and 74% for control group membership, indicating that it is possible to identify ADD-H by quantitative EEG criteria in a homogeneous group of ADD-H children.

CHAPTER VI

PURPOSE OF PROPOSED RESEARCH

Questions regarding the neurological basis of ADHD have become a dominant area of study in childhood psychopathology (Barkley, 1982; Lubar, 1991). It has long been presumed that the underlying basis for the symptoms involved with ADHD have a neurological etiology. While recent research indicates a solid neurological basis for ADHD, no single study to date has attempted to combine several neurological measures to gain a more holistic understanding of this proposed neurological basis. Much of the research in this area has collected data from a single neurological index. For example, recent research in the neurosciences using glucose metabolism implicates both subcortical and frontal cortical systems (Zametkin et. al., 1990); cerebral blood flow studies indicate striatal dysfunction (a subcortical region which is known to be involved in the motor regulatory system and projects to the frontal lobes) (Hans, Henriksen, Bruhn, Borner, Nielsen, 1989); studies on cognitive event related potentials indicate late components such as P3 may be suppressed or delayed in ADHD children (Satterfield et. al., 1988; Loiselle, Stamm, Maitinsky, and Whipple, 1980); and electrophysiological measures indicate increased slow 4-8 hz. theta activity in frontal and central cortical regions and decreased beta activation in temporal and posterior areas. (Mann et. al., 1991).

It has become clear that the primary symptoms of ADHD, inattentiveness, impulsiveness, and hyperactivity, are possibly manifestations of underlying neurological dysfunction; yet the diagnosis of ADHD continues to be based on primarily behavioral measures. Hynd et. al. (1991) states that "at present, there is no neurobiological marker for

ADHD, appropriate diagnosis continues to require reliable behavioral assessment, and treatment must include carefully monitored medical and behavioral interventions." However, subjective behavior ratings of ADHD children by parents and teachers may contribute to the prevalence of the ADHD diagnosis; estimates of the prevalence of this disorder range from 7 to 12 percent of the population. Additionally, the possibility of identifying a homogeneous, clinically meaningful group comprising the diagnosis of ADHD becomes less likely with reliance on subjective measures. Therefore, it becomes increasingly important to understand how the behavioral picture of ADHD relates to the neurological picture of ADHD.

The focus of this study is to examine ADHD from the perspective of two neurological indices in conjunction with behavioral and performance data. Both EEG and visual evoked potentials will be used in an attempt to gain a more comprehensive assessment of this disorder. Differences between carefully matched ADHD and normal control children will be examined. Measurements will be taken during baseline conditions as well as during a variety of cognitive tasks. Additionally, both subjective (rating scales) and objective (CPT) behavioral measures will be administered and analyzed in conjunction with the physiological data. It is the goal of this research project to further clarify the etiology of ADHD and present a more extensive foundation for ADHD diagnosis.

It is hypothesized that subjects in the normal control group will perform more accurately on the Test Of Variables of Attention (TOVA) continuous performance test than ADHD subjects. Additionally, normal control subjects are expected to receive more favorable ratings from parents on the McCarney Attention Deficit Disorder Evaluation

Scale (ADDES) rating scale. Evoked potential data are expected to reveal differences between groups; it is hypothesized that ADHD subjects will show differences in amplitude and/or latency of the N1 component of the visual evoked response when compared to normal control subjects. Differences in topographic EEG distributions are expected between groups, and recent research suggests that these differences may lie in the theta and beta bandpasses (Mann, et. al, 1992). Additionally, the relationship between the quantitative EEG data and the T.O.V.A. and rating scale data will be assessed.

Method

Subjects. Subjects for this study were 23 male children diagnosed with Attention Deficit Hyperactivity Disorder (ADHD) and 23 control children. The age range of the subjects was from 9 to 11 years. Subjects were included in the ADHD group if they met the following criteria: 1) they had been physician diagnosed as having this disorder according to DSM III-R criteria with complaints of hyperactivity as well as inattention and impulsivity, 2) they were currently being treated with Methylphenidate, 3) they had not been diagnosed as having a learning disability, and 4) they were rated by a parent as having symptoms consistent with ADHD diagnosis on the McCarney Attention Deficit Disorder Evaluation Scale (ADDES) rating scale. All subjects in the ADHD group had their medication suspended for the duration of the testing.

Subjects in the control group were age matched to subjects in the ADHD group. Additionally, control subjects were not rated on any subscale of the McCarney ADDES rating scale as having symptoms consistent with a diagnosis of ADHD. Any control

subject who was rated as one standard deviation or more from the ADDES rating scale norms was not included in the study.

All subjects were voluntary participants. Subjects were recruited through school systems in Knoxville and surrounding areas, through local C.H.A.D.D. groups (support groups for ADHD families), or through the Knoxville Neurology Clinic. Subjects were not known to the investigators prior to participation in the study. No monetary payment were used to recruit the subjects. However, children who participated received results from their neurophysiological and behavioral test batteries.

Materials. Subjects were tested using the following neurological and psychological test materials. To record referential electroencephalographic data the Lexicor NRS-24 equipment was used. To record evoked potential data the Lexicor NRS-24 equipment was used in conjunction with the evoked potential software. The McCarney Attention Deficit Disorder Evaluation Scale (ADDES) (McCarney, 1989) was used to collect behavior ratings from parents. The Test of Variables of Attention (TOVA) was used to assess performance differences between groups. The Wide Range Achievement Test-Revised (WRAT-R) (Jastak & Jastak, 1984) was used to assess academic differences between groups.

Procedure. The process for administering neurological and physiological tests was the same for both ADHD and control subjects. All subjects in this study came in for testing for approximately three hours on a single day. Testing times were in the afternoon from either 1:00pm-4:00pm or 4:00pm-7:00pm. Testing took place after school and on

weekends. When the subjects arrived their parents were shown to a waiting room while the subject was shown to the testing room. While the subject was being tested the parents were asked to complete the McCarney Attention Deficit Disorder Evaluation Scale (ADDES).

During the testing of the subject the following data was collected: WRAT-R scores, T.O.V.A. scores, referential 19 channel EEG, and cortical event-related potential. The WRAT-R was the first test administered. This is a standardized psychometric instrument which has been shown to be an accurate measurement of the three basic academic codes (reading, spelling, and arithmetic) with age norming (Jastak & Jastak, 1984). The WRAT-R was scored immediately and used in the determination of appropriate materials for the child to be given during the cognitive tasks of the brain mapping condition.

The T.O.V.A. is a visual continuous performance test in which two easily discriminated visual stimuli are presented for 100 msec every 2 seconds for 22.5 minutes. During administration of the T.O.V.A., subjects were told to watch the screen and click a button whenever a colored square appears at the top portion of an outer square (target stimulus); if the square appeared at the bottom portion of the outer square (non-target stimulus), subjects were told to refrain from clicking. Scores derived from the T.O.V.A. were errors of omission, errors of commission, mean correct response time, and variability. Omission errors represent inattention on the part of the subject. Errors of commission indicate the degree of impulsivity demonstrated by the subject. Response time

indicates how quickly the subjects responded to the target stimulus and variability measures how consistent the subject was in his responding.

Following the administration of the T.O.V.A., EEG data were collected. The quantitative referential 19 channel EEG recording followed the International 10-20 system for electrode placement and included the central locations. Electrode placements were made using an electrode cap (Electro Cap Co.) and Electrogel conductive gel (Weaver and Co.). Additionally, a discreet electrode was placed at Oz using Lexicor equipment for an additional recording site. Data were collected from the subject under these conditions: eyes open baseline, reading, drawing, the Raven's Progressive Matrices (Raven, 1960), listening to a story, and the coding task from the WISC-R (Wechsler, 1974).

The second test given following the administration of the T.O.V.A. was the collection of cortical event related potential data (ERP) during a visual task. The visual stimulus consisted of an alternating black and white checkerboard pattern. The sampling rate for the recording of event related potentials were 512 samples per second. The checkerboard pattern alternated every one-half second. Two hundred presentations of the checkerboard pattern were given (100 of pattern A and 100 of pattern B). Data collection points were measured using the International 10-20 system, and data were collected from Oz, O1, and O2 where the visual evoked potential is maximal.

After collection of the above data, the subject's hair was cleansed of any remaining conductive cream. The subject was then be escorted back to the waiting room where the behavioral ratings were collected from his parent, and the subject was then excused. Data

were stored on Colorado Memory Systems 250 megabyte magnetic tapes for later analysis.

Data Management. All EEG data were artifact rejected before any statistical analyses are performed; segments of EEG which involved eyeblinks or other ocular activity or excessive muscle activity were deleted. Quantitative EEG data from Lexicor equipment were directly imported into a Microsoft Excel spreadsheet after artifact rejection. Percent power numbers of activity in each channel for each separate condition were stored on magnetic tape for later analyses. Bandpasses were defined as follows: delta 1 = .75 - 1.75 Hz, delta 2 = 2.0 - 3.75 Hz, theta = 4.0 - 7.75 Hz, alpha = 8.0 - 12.75, beta 1 = 13.0 - 21.75, and beta 2 = 22.0 - 31.0 Hz. Data from the Event-related potential portion of the study were analyzed by first averging all stimulus presentations into a single average for each person. Evoked wave forms were then identified visually from this single average. Visual inspection of all subjects prior to data recording revealed that the N1 wave appeared to occur between 50 to 100 ms post stimulus. None of the subjects had an N1 wave that peaked beyond 100 ms. Based on this information, the N1 wave was defined as the first negative peak occurring between 50 and 100 ms post stimulus. The peak amplitude of this wave as well as the latency from the stimulus were recorded for later analysis. This data was collected from the O1, O2, and Oz locations.

Results

Psychometric Measures. There were no significant differences in age or grade between the ADHD group and the normal control group. Results from the ADDES

indicated a significantly lower scores (poorer performance) for the ADHD group on all subscales: inattention [$t(44)=9.53$, $p<.0005$], impulsivity [$t(44)=7.50$, $p<.0005$], and hyperactivity [$t(44)=7.97$, $p<.0005$]. Differences in ADDES scores are graphically depicted in Figure 1¹. Results from the TOVA continuous performance test revealed that the ADHD group had significantly poorer performance on scores of omissions [$t(44)=2.40$, $p<.021$], reaction time [$t(44)=4.49$, $p<.0005$], and variability [$t(44)=3.48$, $p<.001$] scores. TOVA results are shown in Figure 2. Academic performance as measured by the WRAT indicated significantly lower scores for the ADHD group on spelling [$t(44)=5.72$, $p<.0005$], reading [$t(44)=4.26$, $p<.0005$], and mathematics [$t(44)=3.09$, $p<.003$] sub-tests. WRAT-R scores are depicted in Figure 3.

EEG Measures. The first stage in analyzing the EEG data was to perform a Fourier transformation on the data from each of the 19 locations. This transformation yielded six scores representing the percentage of total power present in the delta 1, delta 2, theta, alpha, beta 1, and beta 2 band passes for each individual location (19 locations x 6 frequencies = 114 total values). This same process was then repeated for each of the six conditions (114 values x 6 conditions = 684 variables of interest). The 684 variables for each subject were then log transformed [$\log(x/1-X)$] to correct for a skewed distribution. This type of transformation of EEG data is common this field (Gasser, Verleger, & Sroka, 1988; Mann et. al., 1992). Histograms of the transformed data showed a normal distribution.

¹ All tables and figures are located in Appendix A.

Given the experimental design of this study of one independent variable with two levels (ADHD and control), independent t-tests were used to analyze the data. However, if the t-test was used exclusively in determining group differences, a total number of 684 t-tests would have had to be performed. Conducting this many independent t-tests would have increased the probability of making a Type I error. With 684 individual tests, the alpha level would have to be adjusted to $.05/684$ or $.00007$ (Bonferroni adjustment) to control for a Type I error.

To avoid making this severe adjustment in alpha level, the total number of data points to be compared will be reduced via a principle component analysis (PCA). This analysis will reduce data to a smaller set of linear combinations (called factors), that account for the majority of variance in the original data. The first factor accounts for the largest percentage of variance, and additional factors account for progressively smaller proportions of the total variance. Defining what any one factor means is a difficult process and, depending on the reasons for conducting the PCA analysis, not always necessary. To determine what a particular factor represents one needs to examine the factor coefficient matrix. This matrix gives the coefficient values that will be used to weight the variables that are to be collapsed. For example, for factor 1 of a PCA those variables representing data from frontal locations may be positively weighted and data from posterior locations may be negatively weighted by multiplying all 19 data points by a unique coefficient value. These products are then added up to a single value. Therefore, the value that is actually calculated and which makes up the data in factor 1 of this example

represents the variability between the front and back of the head. Other types of variability that may be represented in a factor are: variations in absolute percent power, center region to peripheral region, etc. As mention before, this attempt at understanding what a particular factor means may not be a necessary process. If you are establishing these factors to to assess under which conditions the most variability is accounted for so that tests of significance can be limited to those areas, then attempts at understanding what a particular factor represents is superfluous. In such a case, the PCA is used only as a tool to direct further statistical investigation, not as a method to assess overall variability differences between groups irrespective of what individual recording location account for this difference. This study only intends to use PCA to direct the investigation of group differences in EEG from specific locations. Therefore, discussions as to the particular meaning of a particular factor will be limited. For the purposes of this study, factors need only be understood as representing a particular source of variability in the EEG data from 19 recording sites from during a particular condition. These individual factors will then be compared for group differences. For those factors from a given condition showing a significant difference between groups, individual t-tests on the actual data from all 19 recording sites will be performed to further explore the significant finding. Since t-tests will only be run on the data represented by a significant difference on the factor reduced data, far fewer t-tests will actually be necessary, therefore the probability of making a Type I error will be reduced.

A principle component analysis was performed on each of the six frequencies for the normal control group's eyes open baseline data. Factors were considered for further analysis if they had an eigenvalue greater than one. An eigenvalue is a number that represents the total amount of variance accounted for by a factor. It is based on the concept that each variable or factor is standardized to have a variance of one, so the total variances equal to the number of variables. Since a factor with an eigenvalue of one indicates that the factor accounts for no more variance than a single variable, all factors with an eigenvalue below one were not used in any additional analyses. Once the factors were obtained from the normal control group's baseline condition, the factor coefficients matrix was used to weight each of the variables from the other conditions. These same coefficients were also applied to all six conditions from the ADHD group. This equal weighting of all variables according to the control group's baseline condition was done to provide a sound foundation for making group comparisons and inferences based on these comparisons. An alternative approach to reducing the data would be to compute unique factors for all conditions for both groups, not just the baseline condition for the normal control group, and weight the variables within a condition according to its own factors. This type of approach, however, would render meaningless any assessment of group differences. Recall, that a factor represents some amount of variability that was present in the original data. If one is trying to understand differences between two entirely different factors, then one is trying to understand differences between two entirely different types of variance. Such comparisons are inherently difficult if not impossible. By using the same

factor coefficients for all conditions of our two groups, we are able to understand group differences in consistent terms. Therefore, all variables in the study were identically weighted and consequently reduced relative to the normal baseline. This procedure resulted in 126 variables (21 total factors across all frequencies x 6 conditions = 126 variables) compared to the original 684 variables.

Group differences between the factors were then explored using the multivariate approach to ANOVA. This approach was used instead of a univariate approach because the restrictive assumptions that the univariate approach requires. To assess whether the data met the criterion for a univariate ANOVA, Mauchly's test of sphericity was used to test whether the covariances have a constant variance along the diagonal and zero off the diagonal. This test indicated that some of the variables did not pass the test, therefore, the multivariate approach was used throughout the analyses. In particular, the Pillai's test was used to obtain the F statistic. A three-way ANOVA was run on each of the first two factors produced by the PCA. Only the first two factors were selected for analysis because of the little variance accounted for by any additional factors. Approximately 70 to 80 percent of the variability was accounted for by the first two factors for any given frequency. The three-way ANOVA consisted of two repeated variables, frequency (delta 1, delta 2, theta, alpha, beta 1, and beta 2) and condition (baseline, reading, drawing, ravens, story, and coding), and one between subjects variable, group membership (ADHD versus normal control). The ANOVA results from the first factor indicated a significant main effect of frequency ($F(5,40)=221.13, p<.0005$), and condition ($F(5,40)=12.91$,

$p < .0005$), and an interaction between frequency and condition ($f(5,40)=9.98$, $p < .0005$).

No group differences between ADHD and control groups were found. Recall, these differences are between subject factors representing the collapsed data from 19 recording sites. For example, the significant main effect of frequency indicates that when you collapse the 19 recording locations down to a single factor, this factor is significantly different among the six frequencies. At this level of analysis we do not specifically know which recording locations contributed to this finding. The ANOVA results from the second factor indicated main effects of frequency ($f(5,40)=56.19$, $p < .0005$), and condition ($f(5,40)=12.97$, $p < .0005$), and an interaction between frequency and condition ($f(5,40)=9.30$, $p < .0005$). Although not statistically significant at the .05 level, a strong trend was noted with the group by frequency by condition interaction ($f(5,40)=1.98$, $p < .061$).

Given this potentially important interaction between group, frequency, and condition, t-tests on the factor 2 data were conducted to further explore the nature of the trend. Thirty-six t-tests were performed (6 frequencies x 6 conditions = 36 variables). The problems with an inflated alpha level associated with multiple t-tests will be reviewed in the discussion section. Results from the t-tests revealed the ADHD group had significantly higher percent power in delta 1 during the story condition [$t(44)=2.17$, $p < .035$]. ADHDs were found to have significantly higher alpha during the baseline condition [$t(44)=2.43$, $p < .01$], and during the coding condition [$t(44)=92.10$, $p < .042$].

Controls were found to have significantly higher alpha during the reading condition [$t(44)=3.03$, $p<.004$],

The above t-tests indicate significant group differences with respect to frequency and condition for factor 2 data. To further understand this relationship in terms of specific locations, 19 additional t-tests were run on the frequency by condition combinations that indicated significant group differences on the factor 2 data (4 significant findings x 19 individual locations = 76 additional t-tests). Results from these tests are summarized in Table 1.

To further clarify these findings, graphical illustrations of the results using the 1020 system are depicted in Figures 4 through 7. Figure 4 shows increased delta 1 activity in the ADHD group during the story condition. Differences were predominately located in the right frontal region. Figure 5 shows increased alpha activity in the ADHD group in the posterior regions of the head. In contrast to these findings, Figure 6 shows increased alpha activity in the normal control group during the reading condition. Differences were located in the right frontal region. Finally, Figure 7 shows increased alpha activity in the ADHD group during the coding task at T5 only.

Correlations among EEG, ADDES, and TOVA. To assess possible relationships among EEG, ADDES, and TOVA, a Pearson Product Moment correlation coefficient matrix was computed. The EEG measures or variables that significantly differed between groups were correlated with the three subscales of the ADDES and the four measures

generated from the TOVA. The significant results from this correlational matrix are presented in table 2.

Event-related Potential Measures. Independent t-tests were used to assess group (ADHD versus normal control) differences in amplitude and latency of the N1 wave at O1, O2, and OZ. Results indicated no significant differences between groups in the latency of the N1 wave. Amplitude was only significant different between groups for the N1 wave at O2 [$t(44)=2.17$, $p<.036$], with the control group having increased amplitude relative to the ADHD group. This difference, however, would no longer be significant once one adjusts the probability level due to the number of t-tests conducted. A Bonferoni adujstment to the probability level would equal $p<.01$.

Discussion

Psychometric Measures. The fact that all the subtests of the ADDES, WRAT-R, and the TOVA , excluding the commissions score on the TOVA, showed differences between the ADHD and control subjects indicates that this study utilized two distinct groups. In each of these measures, the ADHD group had poorer performance compared with the normal control group. That is, the ADHD children had lower academic achievement as measured by the WRAT-R; lower ability to sustain attention as measured by the TOVA, and a higher incidence of behaviors consistent with an ADHD diagnosis as measured by the ADDES. These findings are not only important in that they support our original hypotheses, but also because they provide a foundation on which to assess observed differences in the EEG.

EEG Measures. In an effort to reduce the number of t-tests needed to assess EEG differences between ADHDs and normal controls, a principal component analysis was used to reduce the data into fewer variables. The results of the repeated measures analysis of factor one and factor two indicated a significant main effect for frequency and condition and a frequency by condition interaction. The significant difference in frequency is to be expected. It is clearly established that the distribution for the EEG is positively skewed, with lower frequencies having higher power values relative to higher frequencies (Tyner, et. al., 1983). The second finding of a main effect for condition was expected, but is not as well established in the literature. This finding confirms that overall the EEG signature of the subjects differed depending on the nature of the task performed. The frequency by condition interaction indicated that differences in frequency depended on condition. Again, this finding is to be expected. EEG activity across different cognitive tasks is not only expected to change globally, but is expected to elicit differential changes within frequency bands (Tyner, et. al, 1983, Neidermeyer, 1989). A fourth finding from the repeated measures ANOVA on factor 2 was a strong trend towards an interaction between group, frequency, and condition ($p < .06$). This means that the two groups (ADHD and normal control) differed from each other when frequency and condition were taken into consideration. Given that this difference was not statistically significant at the .05 level, analysis could have been terminated here and the conclusion drawn that there were no differences between the two groups. However, the trend was examined with further analyses to see if a unique pattern of responses was present. A regional

pattern of differential activity would support a non-spurious interpretation of the interaction.

Further t-tests on factor two indicated that groups specifically differed in delta 1 during story, and in alpha during the baseline, reading, and coding condition. To determine which specific recording locations differed during these conditions, a final set of t-tests were computed and the results displayed in table 1. The following discussion will attempt to determine if these findings follow an interpretable pattern or are merely the result of random error.

For the EEG data in the delta 1 band pass during the story condition, the following locations were significantly different between groups: FP1, FP2, FZ, and F8. For each of these locations the mean of the ADHD group was significantly higher than the normal control group. A graphical depiction of these differences is displayed in figure 4. These differences appear to cluster around frontal regions (FP1, FP2, FZ) with an asymmetrical location on the right (F8). These results most likely represent more ocular movement artifact being produced by the ADHD subjects. During this task, all subjects were asked to fixate on a point while the story was read to them. Given that the experimenter was engaged in reading, little monitoring of the subjects compliance with instructions was possible. It is likely that control subjects attended to task and followed the instructions better than the ADHD subjects, since this is a common problem for ADHD children (DuPaul and Rapport, 1993). If the ADHD subjects were indeed not following instructions then they were more likely to be looking around the room during this task and

subsequently generating more movement artifact. This type of artifact is most likely to be picked up in the EEG from frontal leads in the delta 1 band pass (Tyner, et al., 1983).

Differences were also seen in the alpha band pass during the baseline condition. Significantly more alpha was seen in the ADHD subjects at T5, T6, and O2 (see Figure 2). Generally, these findings indicate that the ADHD subjects failed to suppress alpha activity during an eyes open baseline relative to normal controls. This is consistent with previous research which has shown that clinical subjects (LD and ADHD) have increased slowing of the EEG and a failure to attenuate alpha when compared with normal controls (Duffy, Denkla, Bartels, and Sandini, 1980; Grunewald, Zuberbier, Grunewald, Rasche, and Netz, 1978; Satterfield, 1973). In normal individuals, alpha activity in the posterior regions of the brain attenuates when the eyes open (Neidermeyer, 1989; Tyner, et. al, 1983). This decreased slowing in the posterior regions of the brain indicates the engagement of the occipital lobes in the processing incoming visual stimuli (Tyner, et. al., 1983). Since the ADHD subjects failed to suppress alpha during a baseline condition, it is possible that during a resting condition, they are not as able to attend to and process visual stimuli as non-ADHD children.

The finding of increased left frontal alpha activity in the normal control group during the reading condition is difficult to interpret. It is assumed by many researchers that the presence of alpha activity in a particular region signifies inactivation of that region (Davidson, 1988, Henriques and Davidson, 1991, Roberts and Kraft, 1989). In fact, the only consistent finding of increased left frontal alpha in the literature suggests a

relationship with depression (Davidson, Chapman and Chapman, 1987, Henriques and Davidson, 1991). Henriques and Davidson (1991) found that EEG measures indicated that the most consistent difference between depressed and nondepressed subjects was that depressed subjects show less left frontal activation (or more left frontal alpha). In light of these findings, it could be postulated that the normal control group used in the present study, while free from ADHD, LD, or diagnosed psychiatric problems, may have had depressive symptoms. While this is unlikely, it is possible since the subject selection procedure used in the present study was not designed to screen out undiagnosed depression. Since subjects were selected on a purely voluntary basis, it is possible that parents of children with depressive symptoms were more interested in having their children participate in the study. However, if the normal control group were depressed, differences in left frontal alpha activity would be expected in baseline conditions as well, since studies on hypoactivation and depression primarily employ baseline conditions for comparisons of normals and depressives. The fact that this finding was only found during the reading condition in the present study suggests that alternative explanations should be explored.

Another possible explanation of the finding of increased left frontal alpha in the normal control group during reading involves research findings from studies of both normal and LD subjects. EEG research specifically employing a reading condition in normal subjects compared to ADHD subjects is scarce. Mann, et. al., (1992) found no differences in alpha distributions during reading between normal controls and ADD-H

children. However, a recent study on the correlation between the EEG and reading and writing performance in normal 6 to 12 year old children suggests that good academic performance is associated with more alpha and less delta and theta activity (Harmony, Hinojosa, Morosi, and Becker, 1990). It was suggested that the poor readers in the study may suffer from a maturational lag (as reflected by higher delta and theta activity in the EEG measures). This would indicate that alpha activity during reading, at least in children, is not associated with inactivation, but rather with a higher level of maturation. Other researchers, comparing a group of normal control children to reading disabled children, have found that during reading, alpha activity may be associated with normal processing. For example, Fein (1986) found that some dyslexic children had lower alpha power levels than normal controls, although this was not a consistent difference. While ADHD subjects in the present study were specifically selected on the basis of being free from learning disabilities, scores on the WRAT-R clearly indicate lower reading achievement. These results are not diagnostic of a specific learning disability, but may represent the use of simpler or less effective reading strategies in the ADHD group. It could be that use of such strategies by the ADHD group may mirror difficulties in the dislexic group reported by the Fein et. al. study, having a similar electrophysiological expression (i.e., less alpha production during reading). It should be noted, however, that this hypothesis is extremely speculative. As mentioned previously, in the overwhelming majority of studies of alpha production during a cognitive task, alpha wave production is

associated with cortical inactivity. Given this support, the results from this condition are questionable and possibly spurious.

Alpha production was also found to differ during the coding condition at T5 (see Figure 4), with ADHDs producing significantly more alpha. This finding is more in line with the current literature and is likely to indicate a failure of the ADHD group to attenuate alpha during a cognitive task. Recall that the ADHD group also had significantly more alpha wave production at T5 during the baseline condition. Therefore, the higher alpha seen during the coding condition may have actually been a persistence of the abnormally high alpha waves observed during the baseline condition. This alpha persistence in the left parietal region, was most likely indicative of parietal inactivation during the coding task. Left parietal involvement during the coding task is to be expected in that the parietal lobes are involved in writing (Kimura, 1977), language (Hecaen, 1978), drawing (Warrington, James, and Kinsbourne, 1966), all of which impact coding performance.

Correlations among EEG, TOVA, and ADDES. As reported in the result section, multiple correlations were conducted to assess possible relationships among the EEG, TOVA, and the ADDES. As a result of conducting multiple correlations, the probability of making a Type 1 error increased. Therefore, for the purposes of discussion, only those relationships that appear to cluster around a similar theoretical underpinning will be reviewed. Such a clustering would be unlikely if the findings were entirely spurious.

Multiple correlations from the ADHD group were statistically significant; however, only one clear pattern emerged from these correlations. The standard score for reaction time on the TOVA was negatively related to theta activity for left frontal and temporal regions during story and drawing tasks (see Table 2). That is, as theta percent power went up, the standard score for reaction time went down. The decrement in the reaction time score indicates slower performance. It is likely that as theta power increased attention decreased (Satterfield, 1973; Mann et. al., 1992). A decrease in attention probably made it difficult for the ADHD group to respond promptly to the target stimuli. The other significant correlations for the ADHD group were between a single test and a single EEG variable. Without any cohesive pattern, no reliable interpretation can be made.

Correlations for the control group indicated a unique positive association between the standard score for commissions on the TOVA and left hemisphere delta 2 during the drawing condition (see Table 2). This relationship indicates that as the commission score on the TOVA went up so did delta 2 activity. The commission score is a measure of impulsivity and is calculated so that an increase in the standard score represents less impulsivity, therefore, the more delta produced by control subjects the less impulsive they were. It is possible that the least impulsive controls were more likely to look around the room and generate muscle artifact. As mentioned previously, artifact from eye movements is typically picked up in the delta band pass (Tyner et. al., 1983). Alternatively, the least impulsive control subjects may have been more drowsy. Delta wave activity is primarily

associated with stages of sleep (Neidermeyer, 1989; Tyner et. al., 1983). A drowsy state may interfere with subject reactivity and result in less impulsive behavior.

Event-related Potential Measures. Event-related Potential data revealed little differences between the ADHD and control groups. The only statistically significant difference between groups was for the amplitude of the N1 wave at O2, with the ADHD group having a lower amplitude. However, after correction for inflation of experimentwise alpha, this finding would no longer be considered statistically significant, but rather a strong trend. This trend is consistent with previous literature which indicates that ADHD subjects have decreased amplitude of evoked wave forms (Klorman, Brumaghim, Salzman, Strauss, Borgstedt, McBride, and Loeb, 1988, Satterfield, Schell, Nicholas, & Backs 1988).

General Conclusions. The results from the present study are striking in light of the only other study that has systematically compared ADHD subjects with non-ADHD subjects on cortical EEG measures. Mann et. al. found consistent differences between ADD-H subjects and control subjects. The majority of these differences were associated with increased theta in the central regions and decreased beta in posterior regions. The current findings differ in that for this study there were not only fewer significant differences overall, but those differences that were found appeared to center in the alpha frequency. The most likely explanation for this discrepancy lies in the subject selection process. In the Mann et. al. study, the subjects were specifically chosen for being free from complaints of hyperactivity according to DSM III-R criteria. The present study specifically chose subjects that did suffer from complaints of

hyperactivity according to DSM III-R criteria. Therefore, the different results obtained from the two studies may be due to inherent neurological differences between ADHD children with and without hyperactivity. As reviewed in the introduction, researchers have attempted to subtype ADHD along hyperactivity with limited success. The results from the present study indicate that electroencephalographic data may be able to elucidate distinct signatures for ADHD children with or without hyperactivity. Future research needs to clarify this possible EEG difference by directly comparing ADHD subjects with and without hyperactivity. If future research discovers consistent differences between ADHD groups on EEG measures, more definitive steps may be taken to establish diagnostic criteria for ADHD that have greater syndrome validity.

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APPENDICES

APPENDIX A

Table 1. Significant t-Tests on Log Transformed Data.

Frequency/ Condition	Location	ADHD Mean	Control Mean	t-Test Value
<u>Delta 1 / Story</u>				
	Fp1	-.35	-.48	2.78**
	Fp2	-.38	-.45	2.15*
	F8	-.38	-.44	2.20*
	Fz	-.43	-.50	2.44*
<u>Alpha / Baseline</u>				
	O2	-.46	-.60	2.02*
	T5	-.56	-.70	2.16*
	T6	-.52	-.69	2.44*
<u>Alpha / Reading</u>				
	F3	-.90	-.83	2.07*
	F7	-.98	-.92	2.16*
<u>Alpha / Coding</u>				
	T5	-.78	-.87	2.84**

*p<.05

**p<.01

Table 2. Significant Correlations Between ADDES, TOVA, and EEG.

Test Subscale/EEG data	Correlation Coefficient	Probability Level
<u>ADHD Group</u>		
TOVA reaction time / F7TH(drawing)	-.4687	.024
TOVA reaction time / FZAL(ravens)	+.5346	.009
TOVA reaction time / T5TH(story)	-.5203	.011
TOVA variability / FZAL(ravens)	+.5066	.014
ADDES impulsivity / T5B1(coding)	+.4359	.038
<u>Normal Control Group</u>		
TOVA commissions / C3D2(drawing)	+.5633	.005
TOVA commissions / FZD2(drawing)	+.4632	.026
TOVA commissions / F3D2(drawing)	+.4403	.036
TOVA commissions / F7AL(reading)	-.4739	.022
TOVA variability / F3D2(drawing)	+.4635	.026
ADDES inattention / C3D2(drawing)	-.4176	.047

Note. EEG data is in the following format: location-frequency(condition).

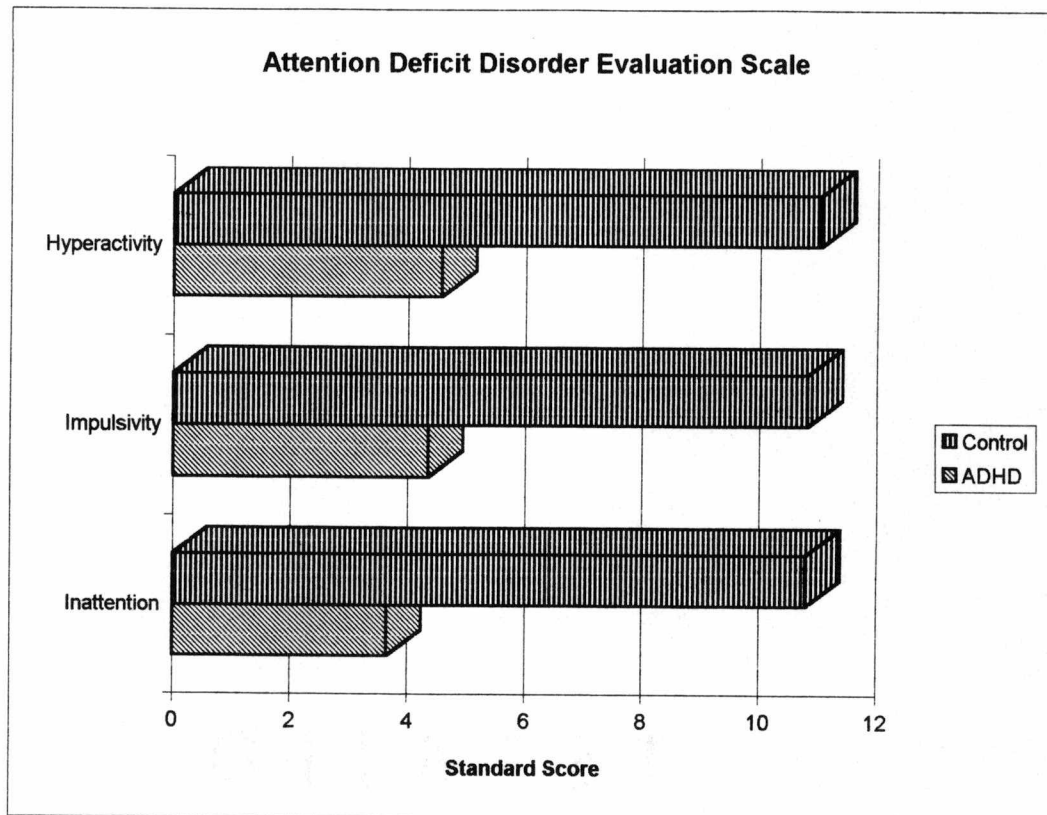


Figure 1. Differences in behavioral ratings on the ADDES between ADHD and normal control subjects.

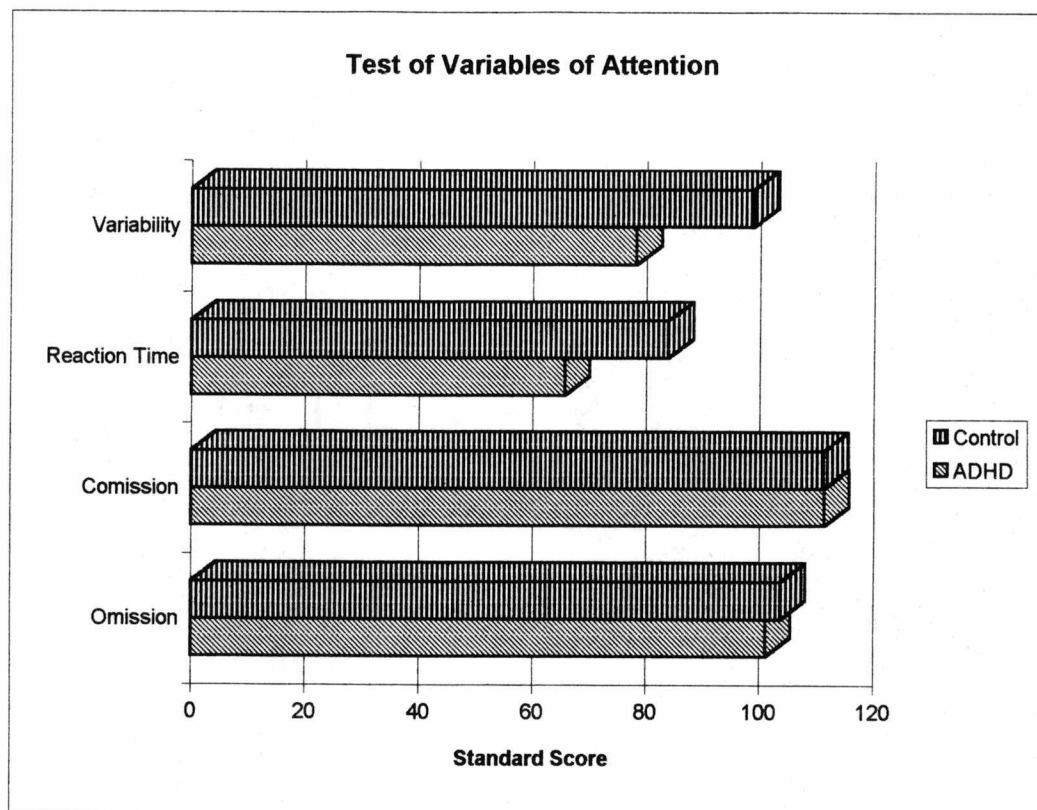


Figure 2. Differences in performance on the TOVA between ADHD and normal control subjects.

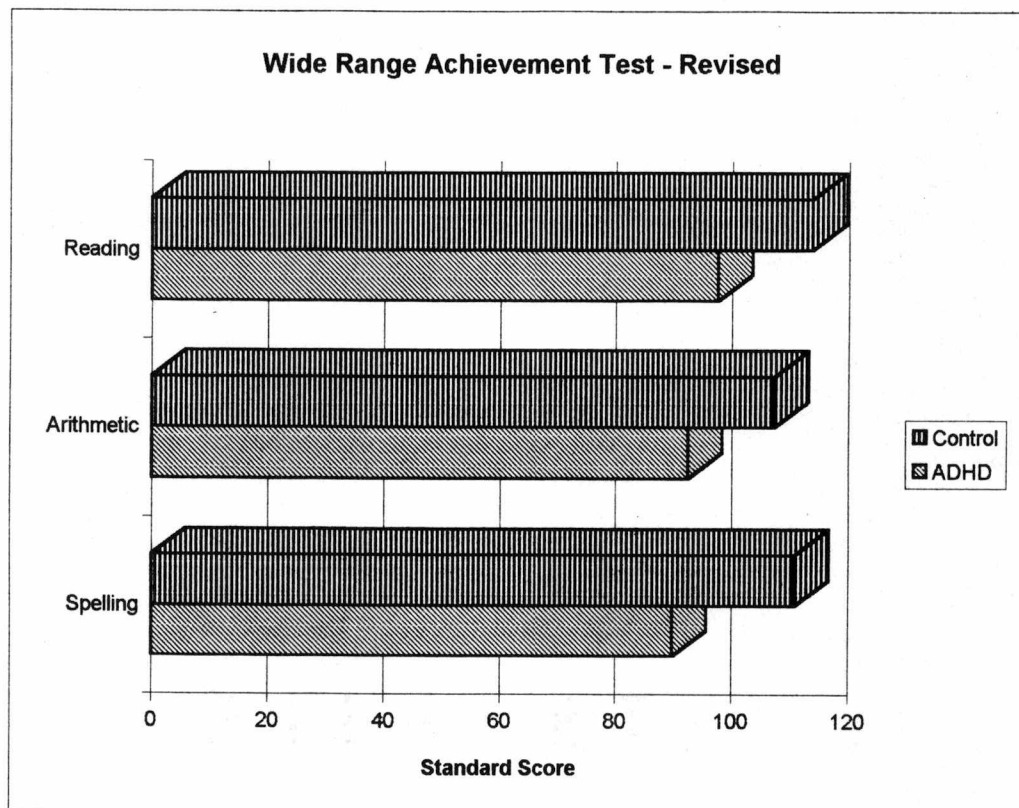


Figure 3. Differences in achievement scores on the WRAT-R between ADHD and normal control subjects.

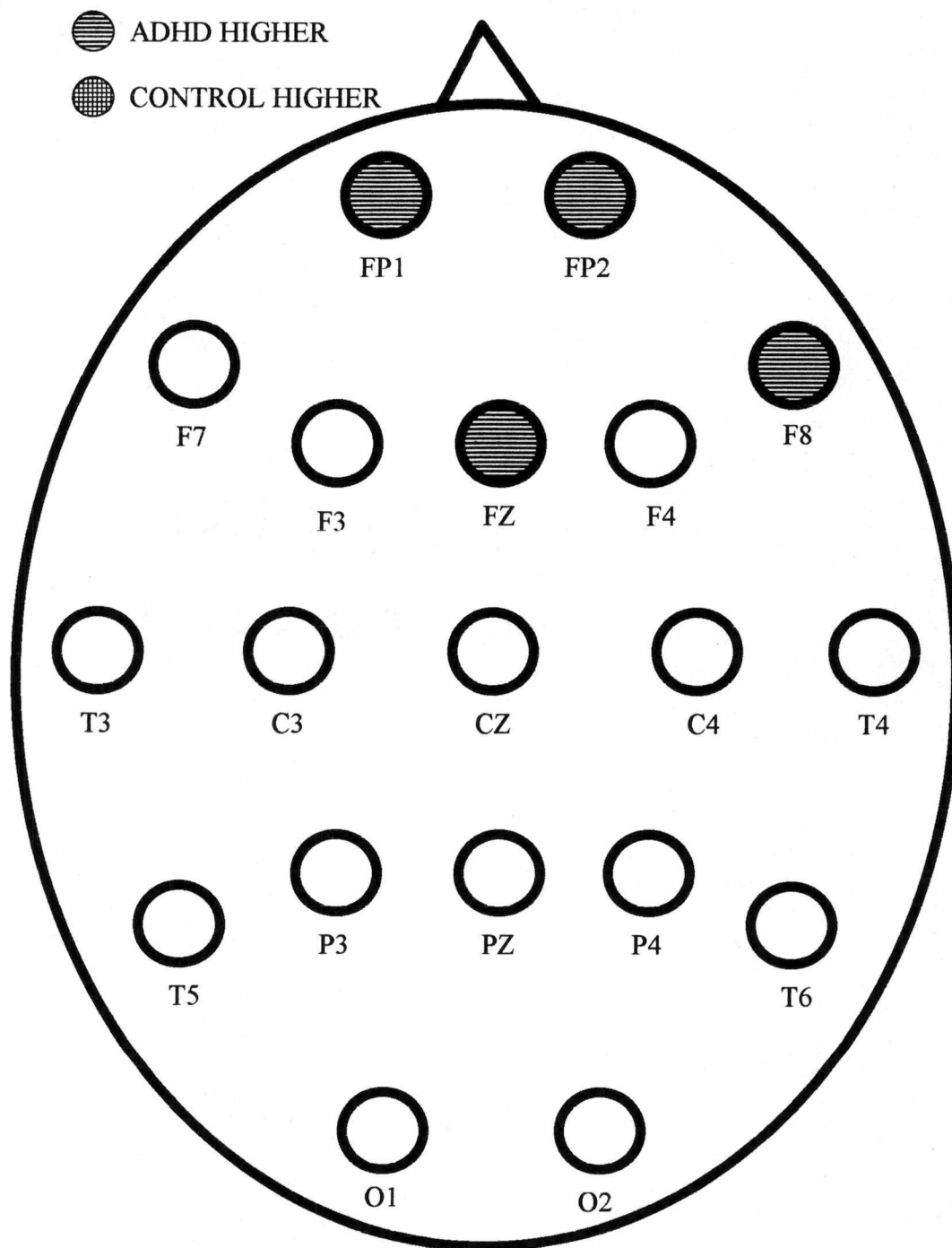


Figure 4. Significant differences in delta 1 during the story condition.

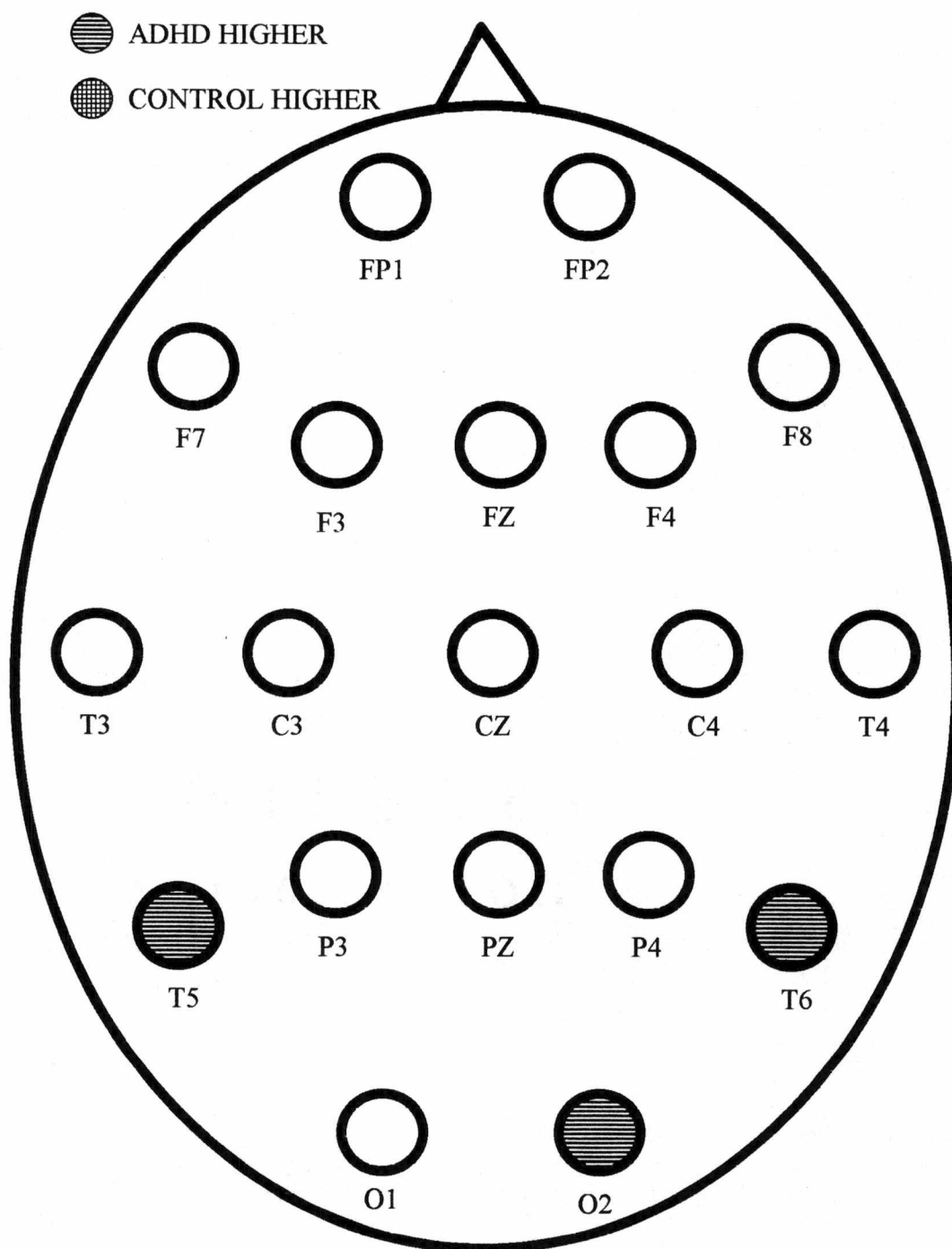


Figure 5. Significant differences in alpha during the baseline condition.

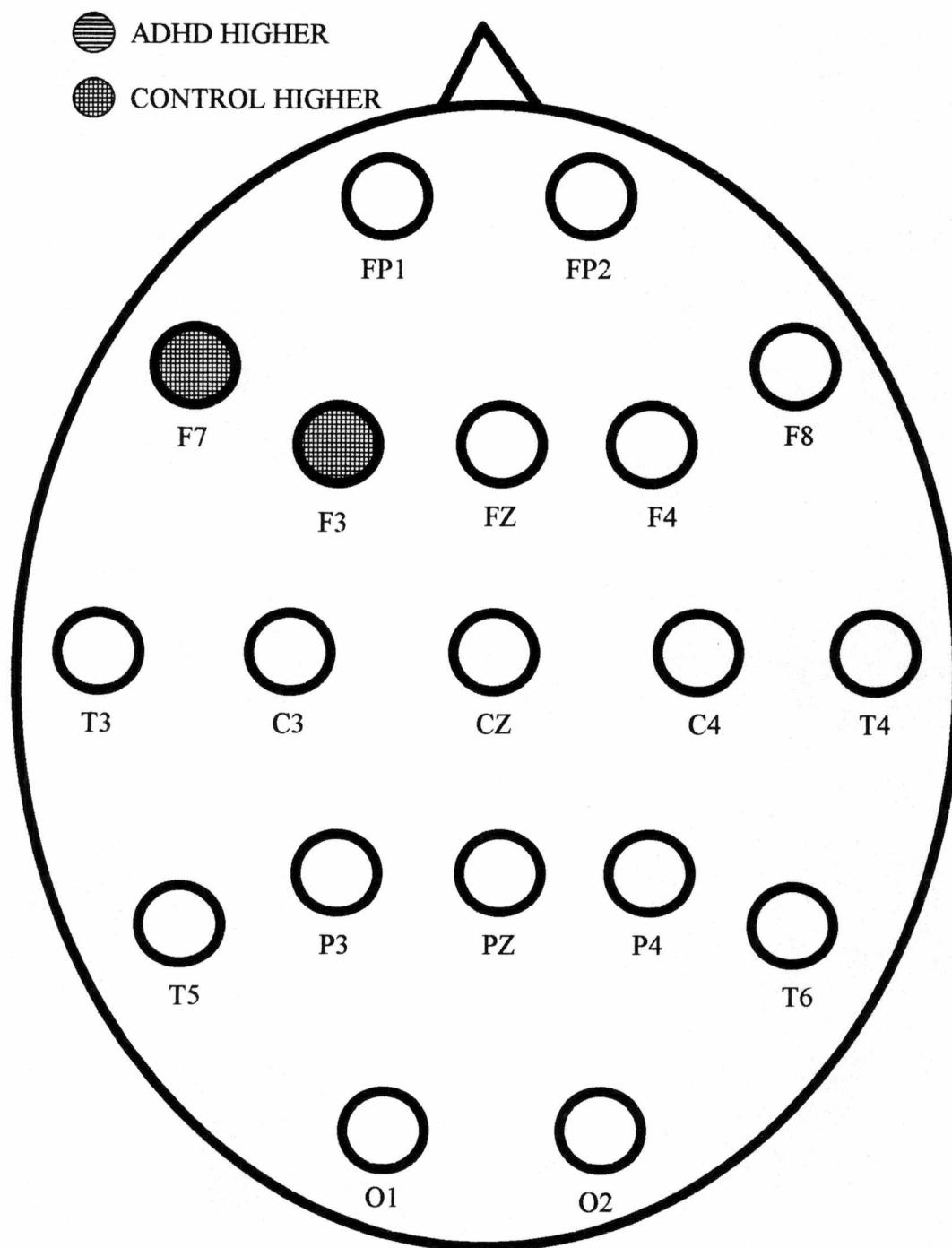


Figure 6. Significant differences in alpha during the reading condition.

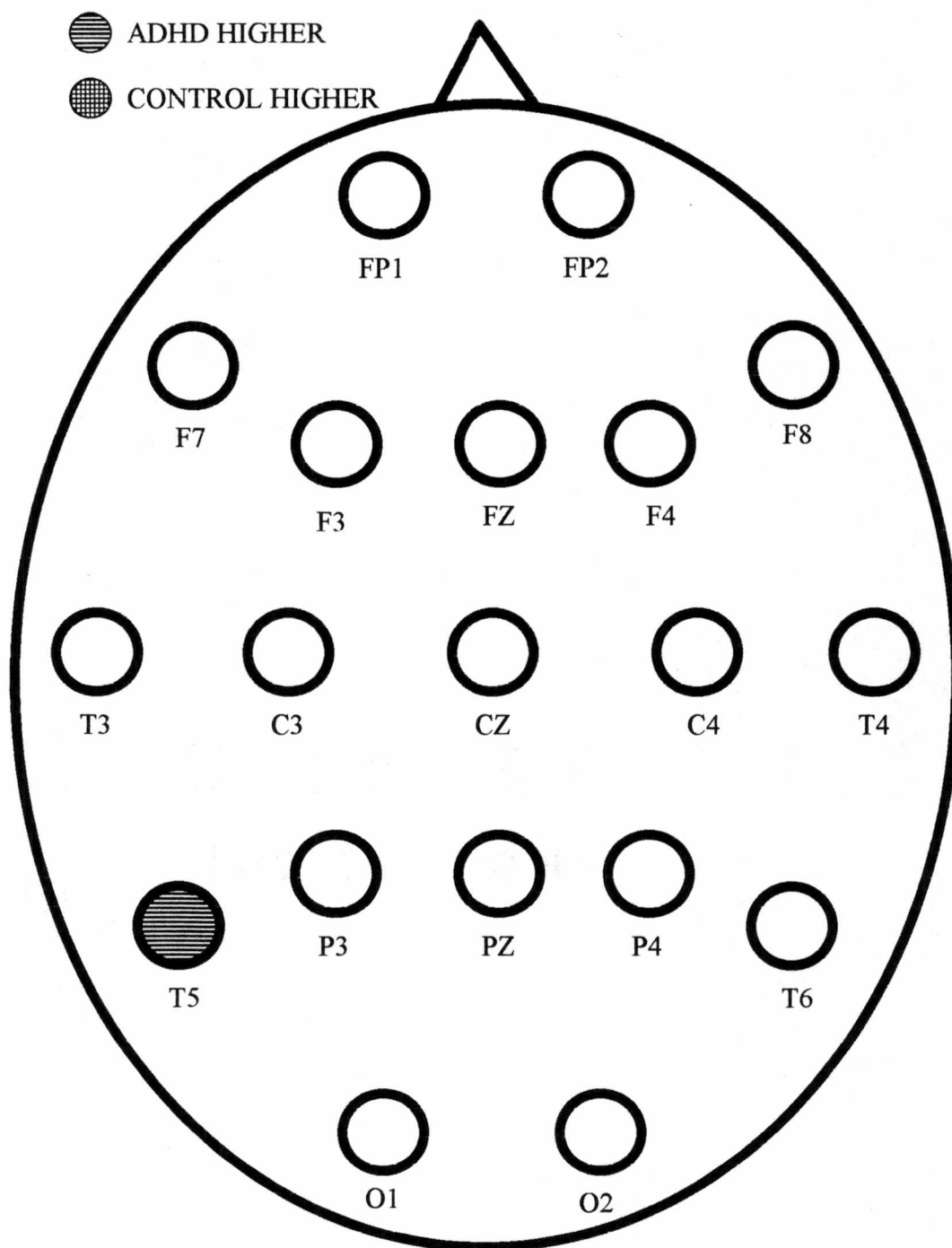


Figure 7. Significant difference in alpha during the coding condition.

APPENDIX B

Subject Number	TOVA				TOVA
	Omissions	Comissions	Reaction Time	Variability	Standard Score
01X	-0.33	-0.66	0.93	-1.18	104.95
02X	-0.18	-1.65	3.16	1.55	102.7
03X	-0.05	1.11	1.84	1.89	100.75
04X	-0.19	-0.08	2.15	1.47	102.85
05X	-0.19	-0.87	3.03	0.87	102.85
06X	-0.24	-0.15	0.02	0.09	103.6
07X	-0.33	-1.06	4.1	1.68	104.95
08X	-0.19	-1.26	2.82	1.18	102.85
09X	-0.33	-0.27	2.68	1.84	104.95
10X	0.38	-0.66	3.52	2.26	94.3
11X	-0.23	-1.19	2.91	-1.17	103.45
12X	-0.19	-0.86	1.93	0.71	102.85
13X	0.23	-0.27	4.46	4.18	96.55
14X	0.09	-0.86	6.29	4.65	98.65
15X	-0.33	-1.65	2.34	-0.21	104.95
16X	0.53	-1.26	6.67	4.34	92.05
17X	-0.05	-0.27	1.27	1.39	100.75
18X	-0.05	-1.85	6.19	1.66	100.75
19X	0.95	-0.08	3.85	3.08	85.75
20X	-0.24	-1.34	0.88	-0.16	103.6
21X	-0.32	-1.34	0.66	-0.98	104.8
23X	-0.05	-1.65	6.03	3.53	100.75
24X	-0.33	0.87	1.77	0.66	104.95
01C	-0.19	-0.86	3.39	1.07	102.85
02C	-0.33	-1.26	0.84	0.03	104.95
03C	-0.32	-1.19	-0.25	-1.22	104.8
04C	-0.33	-0.47	0.74	-0.53	104.95
05C	-0.33	-1.26	1.56	-0.21	104.95
26C	-0.15	-0.46	1.24	-0.29	102.25
27C	-0.19	-0.27	0.69	-0.03	102.85
08C	-0.05	0.12	1.71	0.58	100.75
09C	-0.32	-1.19	0.15	0.93	104.8
10C	-0.33	-0.47	0.22	-1.15	104.95
12C	-0.33	-1.26	1.22	-0.39	104.95
13C	-0.23	-1.04	1.77	0.93	103.45
14C	-0.04	-0.27	0.98	0.31	100.6
15C	0.1	-0.27	0.98	0.74	98.5
16C	-0.32	-0.3	-0.49	-0.38	104.8
17C	-0.33	-1.65	1.29	-0.89	104.95
18C	-0.33	-1.06	1.06	-0.29	104.95
19C	-0.33	-0.08	1.13	2.26	104.95
28C	-0.33	-0.86	1.71	-1.13	104.95
21C	-0.19	0.12	-0.08	-0.05	102.85
22C	-0.19	-1.26	2.05	0.26	102.85
23C	-0.33	-0.86	1.43	0.53	104.95
24C	-0.19	-1.06	1.4	0.84	102.85

Subject Number	TOVA Standard Score Comissions	TOVA Standard Score Reaction Time	TOVA Standard Score Variability	ADDES Inattention	ADDES Impulsivity
01X	109.9	86.05	117.7	1	0
02X	124.75	52.6	76.75	6	10
03X	83.35	72.4	71.65	5	3
04X	101.2	67.75	77.95	8	7
05X	113.05	54.55	86.95	7	6
06X	102.25	99.7	98.65	0	4
07X	115.9	38.5	74.8	3	5
08X	118.9	57.7	82.3	3	3
09X	104.05	59.8	72.4	3	6
10X	109.9	47.2	66.1	3	4
11X	117.85	56.35	117.55	2	3
12X	112.9	71.05	89.35	0	2
13X	104.05	33.1	37.3	5	8
14X	112.9	5.65	30.25	4	6
15X	124.75	64.9	103.15	0	0
16X	118.9	-0.05	34.9	2	1
17X	104.05	80.95	79.15	4	2
18X	127.75	7.15	75.1	5	3
19X	101.2	42.25	53.8	4	2
20X	120.1	86.8	102.4	6	9
21X	120.1	90.1	114.7	4	7
23X	124.75	9.55	47.05	6	6
24X	86.95	73.45	90.1	3	3
01C	112.9	49.15	83.95	1	0
02C	118.9	87.4	99.55	10	12
03C	117.85	103.75	118.3	11	9
04C	107.05	88.9	107.95	8	7
05C	118.9	76.6	103.15	14	13
26C	106.9	81.4	104.35	11	12
27C	104.05	89.65	100.45	12	10
08C	98.2	74.35	91.3	9	10
09C	117.85	97.75	86.05	11	12
10C	107.05	96.7	117.25	10	10
12C	118.9	81.7	105.85	13	13
13C	115.6	73.45	86.05	11	10
14C	104.05	85.3	95.35	9	13
15C	104.05	85.3	88.9	8	14
16C	104.5	107.35	105.7	14	8
17C	124.75	80.65	113.35	11	10
18C	115.9	84.1	104.35	11	10
19C	101.2	83.05	66.1	14	14
28C	112.9	74.35	116.95	11	11
21C	98.2	101.2	100.75	14	14
22C	118.9	69.25	96.1	10	11
23C	112.9	78.55	92.05	14	13
24C	115.9	79	87.4	12	11

Subject Number	ADDES Hyperactivity	WRAT-R Reading	WRAT-R Spelling	WRAT-R Arithmetic
01X	3	104	96	100
02X	5	92	93	81
03X	5	111	89	95
04X	5	111	100	88
05X	5	107	89	97
06X	0	88	67	76
07X	8	103	93	99
08X	8	114	102	91
09X	10	85	76	78
10X	1	106	94	99
11X	4	82	84	108
12X	1	103	89	110
13X	11	79	84	95
14X	4	76	74	112
15X	0	96	96	84
16X	0	73	73	85
17X	4	102	102	88
18X	6	108	107	107
19X	7	85	87	98
20X	4	121	96	76
21X	3	82	82	81
23X	5	110	89	82
24X	6	105	102	95
01C	3	96	84	91
02C	13	119	113	117
03C	12	119	114	95
04C	7	114	118	139
05C	12	132	111	115
26C	12	121	141	133
27C	11	128	127	150
08C	9	114	100	88
09C	12	111	112	117
10C	12	112	107	110
12C	8	113	111	81
13C	8	103	87	94
14C	11	109	107	94
15C	13	97	100	90
16C	12	118	117	108
17C	13	132	131	82
18C	12	128	127	146
19C	12	123	129	120
28C	12	125	116	121
21C	13	98	100	91
22C	13	86	94	95
23C	13	105	98	95
24C	11	114	104	95

SUBNUM	Event-related Potential								
	B1O1UV1	B1O1UV2	N1O1UV1	N1O1UV2	N1O1LT1	N1O1LT2	B1O2UV1	B1O2UV2	N1O2UV1
X01	-4.90	-2.20	-4.40	-6.70	78.10	74.20	-5.00	-4.00	-6.70
X02	-.30	-2.10	-7.50	-8.50	80.10	80.10	-1.20	-1.50	-3.80
X03	-2.30	-1.70	-2.30	-4.10	78.10	62.50	-2.00	-1.50	-9.50
X04	-.20	2.40	-7.80	-5.20	72.30	70.30	.00	2.70	-12.40
X05	-2.20	.40	-7.50	-6.70	78.10	76.20	-.30	.80	-4.70
X06	-2.60	-3.80	-6.30	-7.60	70.30	72.30	-1.90	-2.50	-7.80
X07	-1.20	-.90	-9.20	-6.90	78.10	72.30	-1.30	-.20	-10.90
X08	.80	-1.10	-3.50	-2.80	70.30	66.40	1.80	-.90	-4.10
X09	-1.80	-.80	-3.90	-1.90	54.70	76.20	-1.40	-4.20	-6.50
X10	-3.70	.30	-2.10	-4.00	80.10	80.10	-3.50	1.50	-1.80
X11	2.90	-1.80	-1.90	-4.50	78.10	50.80	1.80	-1.80	-3.70
X12	-2.20	-1.20	.70	-2.60	72.30	82.00	-1.50	-1.20	-3.10
X13	-1.00	-.20	-8.20	-3.90	82.00	78.10	-1.40	-.20	-8.70
X14	.10	-3.70	-6.10	-6.00	80.10	80.10	.10	-3.90	-7.90
X15	-.60	-.20	-.30	-1.50	72.30	72.30	-1.00	-1.20	-3.00
X16	-2.50	-3.40	-4.30	-7.00	66.40	56.60	-2.80	-4.00	-8.30
X17	-.60	-1.20	-5.20	-6.50	78.10	78.10	-.80	-1.30	-9.20
X18	1.80	-2.20	-3.30	-3.50	74.20	76.20	1.40	-3.50	-3.90
X19	-.10	2.80	-7.80	-8.40	85.90	82.00	-1.30	3.90	-11.20
X20	-.90	-1.20	-9.80	-11.20	76.20	78.10	-4.80	-4.50	-10.10
X21	-3.20	.00	-4.70	-4.60	50.80	60.50	-4.90	-.10	-4.80
X23	-.50	.00	-3.70	-3.40	60.50	72.30	-1.20	-.80	-3.40
X24	.70	-.20	-4.30	-7.30	78.10	72.30	-.20	.30	-4.70
C01	-.60	-3.50	-11.00	-9.80	76.20	74.20	-4.20	-3.00	-25.60
C02	.60	1.70	-12.20	-8.80	76.20	74.20	.50	.70	-10.50
C03	-1.10	-1.30	-3.80	-7.30	68.40	76.20	-3.70	-1.70	-9.70
C04	2.70	-1.40	-5.10	-2.50	64.50	68.40	.60	-1.20	-6.70
C05	-1.60	-3.30	-8.90	-10.20	80.10	78.10	-1.10	-2.40	-12.60
C26	.30	.50	-2.50	-3.50	72.30	74.20	-1.00	.70	-1.80
C27	1.40	-.10	-5.20	-5.60	76.20	74.20	.70	2.00	-5.00
C08	-2.50	2.80	-4.50	1.60	80.10	78.10	-2.90	1.70	-5.00
C09	.00	.20	-4.20	-3.10	74.20	72.30	2.20	1.60	-8.00
C10	4.00	2.30	-7.70	-7.20	76.20	80.10	2.30	-.30	-5.10
C12	-1.10	.80	-8.10	-9.00	80.10	80.10	-2.20	.40	-15.90
C13	1.80	1.00	-8.40	-7.80	78.10	78.10	3.10	3.30	-11.80
C14	-2.20	-2.60	-6.20	-4.00	54.70	56.60	-.20	-.60	-7.20
C15	1.90	-1.20	-3.30	-5.80	76.20	82.00	1.80	-1.90	-6.90
C16	-2.50	-3.00	-4.90	-6.50	84.00	85.90	-4.60	-3.80	-10.00
C17	-1.80	-2.10	-2.50	-2.00	74.20	82.00	-1.70	-2.50	-5.80
C18	.00	-.60	-1.50	-4.80	72.30	74.20	.20	-1.20	-3.80
C19	-1.10	-1.00	-5.30	-3.30	74.20	74.20	-1.60	-1.00	-9.20
C28	2.80	5.00	-8.30	-7.50	74.20	74.20	3.00	4.90	-12.10
C21	2.50	2.60	-12.80	-12.80	74.20	74.20	2.40	3.30	-12.40
C22	3.80	.20	.50	-5.30	50.80	82.00	3.20	.60	-4.10
C23	-.30	2.80	-3.70	-1.40	76.20	70.30	.90	2.40	-6.20
C24	-3.50	.70	-10.60	-9.20	78.10	76.20	-4.10	.80	-12.90

Note. Format for the ERP data is as follows:

The first two letters designate the particular wave form.

The next two letters designate the topographic location.

The next two letters designate a microvolt(UV) or latency(LT) measurement.

The final number indicates the stimulus number (either 1 or 2).

SUBNUM	Event-related Potential								
	N1O2UV2	N1O2LT1	N1O2LT2	B1OZUV1	B1OZUV2	N1OZUV1	N1OZUV2	N1OZLT1	N1OZLT2
X01	-7.60	78.10	74.20	-3.40	-2.30	-6.70	-9.00	78.10	74.20
X02	-3.80	76.20	80.10	-1.20	-1.50	-4.50	-4.20	66.40	78.10
X03	-8.50	78.10	74.20	-3.20	-1.10	-6.20	-10.00	78.10	74.20
X04	-12.10	70.30	70.30	2.50	5.30	-12.00	-11.00	72.30	72.30
X05	-5.30	78.10	76.20	-1.20	.80	-7.90	-8.00	76.20	74.20
X06	-6.20	70.30	72.30	-2.50	-3.60	-12.20	-11.00	62.50	70.30
X07	-10.20	76.20	74.20	-3.20	-.20	-12.90	-10.90	66.40	72.30
X08	-4.20	72.30	66.40	.50	-1.60	-5.90	-4.40	72.30	66.40
X09	-4.10	74.20	76.20	-1.20	-4.20	-9.40	-8.50	72.30	78.10
X10	-2.60	80.10	80.10	-3.10	.00	-2.10	-2.20	82.00	80.10
X11	-4.70	78.10	82.00	-3.60	-2.80	-6.50	-4.90	80.10	56.60
X12	-8.20	78.10	80.10	-.10	-.70	-4.30	-7.80	74.20	82.00
X13	-3.50	82.00	76.20	-.80	1.50	-10.60	-4.60	85.90	82.00
X14	-8.80	80.10	80.10	.30	-5.80	-7.90	-9.30	80.10	80.10
X15	-4.00	72.30	72.30	-.20	-1.60	-5.20	-6.50	78.10	80.10
X16	-8.10	72.30	66.40	-1.90	-5.10	-10.20	-9.90	74.20	80.10
X17	-9.50	76.20	74.20	-3.80	-3.50	-10.80	-10.60	80.10	78.10
X18	-4.50	74.20	76.20	1.80	-3.20	-5.30	-4.50	76.20	74.20
X19	-9.50	80.10	82.00	-.50	4.80	-18.30	-14.30	87.90	87.90
X20	-12.20	76.20	70.30	-6.90	-5.80	-12.70	-14.50	74.20	70.30
X21	-5.50	50.80	60.50	-4.80	-.50	-4.70	-6.80	72.30	60.50
X23	-3.20	66.40	50.80	.50	-.50	-3.80	-4.20	62.50	70.30
X24	-8.20	74.20	72.30	.80	.40	-11.40	-15.80	72.30	74.20
C01	-22.20	76.20	74.20	-3.60	-4.10	-26.90	-23.40	74.20	74.20
C02	-7.70	76.20	74.20	2.10	-.80	-14.20	-10.00	78.10	78.10
C03	-13.50	68.40	74.20	-2.70	-1.70	-9.80	-14.10	68.40	68.40
C04	-4.20	72.30	78.10	2.90	-3.00	-5.20	-2.80	76.20	66.40
C05	-9.10	78.10	82.00	-1.50	-2.80	-13.30	-11.20	78.10	78.10
C26	-3.10	74.20	70.30	-1.00	2.00	-4.40	-3.80	66.40	72.30
C27	-5.50	78.10	74.20	1.00	2.80	-6.60	-6.50	78.10	74.20
C08	.20	78.10	76.20	2.30	4.20	-6.10	1.90	76.20	70.30
C09	-6.80	74.20	72.30	1.70	1.80	-10.70	-9.20	76.20	74.20
C10	-4.90	68.40	74.20	.90	1.80	-8.40	-7.10	78.10	84.00
C12	-16.60	78.10	78.10	1.10	1.60	-15.00	-17.80	72.30	76.20
C13	-8.60	82.00	80.10	2.10	1.40	-16.40	-16.80	80.10	80.10
C14	-7.20	74.20	72.30	-1.60	.20	-2.90	-3.10	54.70	72.30
C15	-6.70	74.20	72.30	.50	-1.00	-6.90	-8.50	76.20	78.10
C16	-10.60	82.00	82.00	-6.00	-3.50	-10.40	-9.90	84.00	84.00
C17	-4.80	80.10	80.10	-1.50	-3.50	-11.60	-9.60	74.20	78.10
C18	-5.50	72.30	72.30	-.80	-6.40	-6.80	-8.70	70.30	70.30
C19	-7.10	76.20	74.20	-.60	-.40	-11.00	-7.90	66.40	80.10
C28	-10.90	70.30	72.30	6.00	9.60	-19.70	-17.10	68.40	68.40
C21	-12.20	74.20	72.30	1.90	3.10	-12.40	-13.80	74.20	72.30
C22	-9.70	78.10	82.00	3.10	1.60	-3.50	-7.00	78.10	80.10
C23	-4.40	76.20	74.20	.00	1.50	-6.20	-5.20	76.20	72.30
C24	-11.80	78.10	76.20	-5.20	-.80	-18.40	-15.10	78.10	78.10

Note. Format for the ERP data is as follows:

The first two letters designate the particular wave form.

The next two letters designate the topographic location.

The next two letters designate a microvolt(UV) or latency(LT) measurement.

The final number indicates the stimulus number (either 1 or 2).

SUBNUM	B2O1UV1	Event-related Potential		B2O2UV2	B2OZUV1	B2OZUV2
		B2O1UV2	B2O2UV1			
X01	-1.50	.00	-1.50	-.70	-1.20	-1.50
X02	-.60	-.50	-1.40	-.40	-1.80	.60
X03	.00	-1.50	-3.90	-1.30	.30	-5.30
X04	-1.40	-.80	-2.60	-1.00	-.30	1.60
X05	-.30	-.60	.30	.00	1.10	-.80
X06	.90	-.10	-.50	1.00	-3.30	-1.70
X07	-2.60	-3.20	-2.70	-2.80	-.50	-3.40
X08	-.90	1.10	-1.70	.80	-1.00	-.80
X09	3.60	-1.40	1.80	.40	2.90	-.20
X10	-2.20	.30	-2.50	-.20	-1.20	.00
X11	-.10	2.50	.20	2.20	-4.20	.50
X12	-3.20	-2.30	-4.20	-4.60	-3.20	-4.80
X13	-1.00	.20	-.50	.30	.50	.50
X14	-.20	-2.20	-.20	-2.00	-.20	-2.50
X15	-.60	-.50	-1.00	-.40	-.20	1.70
X16	-2.50	-.40	-5.30	-1.30	-4.00	-1.20
X17	-2.10	-.80	-2.80	-.80	-.20	-.20
X18	1.60	1.80	.70	1.90	1.20	3.80
X19	-1.10	.10	-.60	2.50	-10.20	-7.50
X20	-2.30	-4.40	-3.80	-5.50	-3.80	-8.50
X21	-2.20	.00	-3.90	-1.70	-5.20	-2.90
X23	1.40	-1.40	2.50	-.50	2.40	-1.20
X24	.50	-1.90	.20	-1.40	-.20	-4.30
C01	-3.80	-2.40	-5.30	-1.70	-6.00	-2.20
C02	-.50	-.60	-.20	-.90	-1.50	1.80
C03	.50	-2.80	-2.50	-4.50	-3.40	-4.80
C04	-.30	-.50	.00	-.50	.00	.50
C05	4.50	.30	3.60	2.90	4.50	1.30
C26	-.20	.40	-.90	-.50	-.30	.20
C27	-2.30	-.90	-2.50	-.20	-2.60	-.30
C08	-3.20	5.20	-3.10	2.50	1.70	6.80
C09	-.50	.20	-.70	.10	-.30	.30
C10	.30	1.30	-1.60	2.40	-.40	.90
C12	-1.70	-2.20	-1.20	-2.20	-.50	-5.00
C13	1.80	1.00	2.70	3.40	2.70	4.80
C14	1.70	1.60	1.00	-.50	-.50	.20
C15	.40	-.40	-.50	.50	-.40	2.20
C16	-.20	-3.20	-2.00	-4.10	-2.70	-3.80
C17	.10	.90	-.40	1.50	-1.40	.20
C18	2.50	-.40	1.40	-1.40	4.50	2.10
C19	.70	1.80	.20	1.70	-3.50	5.60
C28	-.40	-.20	2.20	1.20	-.40	-1.90
C21	-1.00	1.80	1.20	2.00	.90	1.90
C22	4.50	-2.80	4.20	-1.40	4.40	.70
C23	-.20	.20	.10	.20	.20	-1.10
C24	-3.00	.40	-2.80	.00	-6.20	-1.10

Note. Format for the ERP data is as follows:

The first two letters designate the particular wave form.

The next two letters designate the topographic location.

The next two letters designate a microvolt(UV) or latency(LT) measurement.

The final number indicates the stimulus number (either 1 or 2).

01C

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.1	23.7	18.6	9.3	10.7	10.6	25.4	29.3	25.3	9.2	6.9	3.9	
T3	23	22.2	23.3	16.9	8.1	6.5	21.2	23.2	29.1	15.3	7.9	3.4	
T5	23.7	20.4	25.4	19.4	7.7	3.4	19.8	21.3	32.8	16.1	7	3	
FP1	25.7	19.7	17.4	10.6	13	13.7	27.7	25.3	25.5	10	7.6	3.8	
F3	25.3	24	27.6	11.7	7.2	4.2	19.4	27.2	33.4	10.4	7.2	2.4	
C3	22.5	23.3	30.5	14.2	6.5	2.9	17.2	24.1	35.3	14.3	6.8	2.3	
P3	22.4	21.9	26.9	19.9	6.3	2.5	19.4	22.3	32.1	17.4	6.4	2.3	
O1	27.9	20.9	20.7	20.8	7.4	2.2	17.8	27.9	29.6	14	7.7	2.9	
FZ	26.3	23.4	28.3	11.3	6.5	4.2	20.1	24.8	35.8	10.5	6.5	2.3	
CZ	20.7	24.5	33	14.3	5.3	2.2	17.6	22.1	38.4	14.9	5.2	1.8	
PZ	24.1	24	27.6	17.5	4.9	2	19.8	23.8	32.4	16.8	5.4	1.8	
FP2	16.2	10.5	9.5	7.6	20.7	35.5	26.8	22.5	21.5	9.5	10	9.7	
F4	23.5	21.9	23.8	9.7	9.6	11.6	20.9	25	32.2	10.6	7.5	3.8	
C4	19.7	23.9	27.1	19.5	7	2.8	20	23	30.3	17.8	6.4	2.5	
P4	21.6	25.9	27	17	6.2	2.3	21.2	25.2	30.4	14.6	6.3	2.3	
O2	26.7	22.9	21.3	18.7	8.1	2.2	19.9	28.1	27.4	12.8	8.5	3.3	
F8	29.3	18.1	14.6	7.4	13.4	17.4	29.4	24.9	19.8	10.3	8.9	6.6	
T4	20.2	19.4	23.9	16.1	11.6	8.9	20.5	25.5	23.8	15.4	9.9	4.9	
T6	22.9	24.9	24.6	16.4	7.7	3.4	24.7	22.6	28.3	13.2	7.9	3.4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.1	23.8	18.8	10.3	8.1	6.9	31	23.9	21.3	8.3	8.9	6.6	
T3	27.6	23.5	23.9	9.9	8.7	6.5	26.9	24.5	26	10.4	7.1	5	
T5	18.3	21.6	30.5	10	11.7	7.8	27.6	25.1	24.5	12.3	7	3.4	
FP1	28.6	21.1	25.8	10.3	8.2	5.8	29.8	23.5	21.3	8.5	8.6	8.2	
F3	22.9	22.1	32.5	11.4	7	4.1	29	20.7	30.7	9.7	6.7	3.2	
C3	21.2	25.7	29.8	11.8	7.3	4.2	26.4	20.1	31.5	11.5	7.5	3	
P3	22.7	26	27.4	11	8.3	4.6	27.3	25.4	26.4	12.4	5.8	2.6	
O1	24	29.2	20.5	11.8	8.4	6.2	27.2	30.4	24.4	10.3	5.5	2.1	
FZ	22	19.9	35.5	11.9	7.1	3.7	27.3	21.9	33.6	8.6	5.8	2.9	
CZ	19.8	23.7	31.5	14.1	6.9	3.9	24.4	19.9	35.7	11.9	5.4	2.7	
PZ	23.5	27.8	25.9	11.7	7.1	3.8	25.9	27.5	27.2	12.5	4.8	2.1	
FP2	25.4	17.8	23	11	11.5	11.3	23.9	16.5	14.8	8	16.7	20.1	
F4	21.5	21.9	31.6	10.9	8.8	5.4	26	20.5	29.4	8.3	8.8	7.1	
C4	21	25.6	28.4	13.1	7.4	4.6	23	20.2	33.8	13.8	6.1	3.1	
P4	24.1	25.7	27.3	11	7.4	4.5	25.3	28.4	27.2	11.7	5	2.5	
O2	23.2	25.1	19.2	13.8	10.4	8.3	27.2	28.8	24.3	11.3	6.3	2.2	
F8	27	22	21.3	9.5	9.6	10.5	38.9	17	17.4	9.5	7.7	9.5	
T4	20	20.8	22.5	12.9	13.5	10.3	22.5	18.1	30.1	12.8	10	6.6	
T6	21.9	20.9	23.5	12.2	11.8	9.7	29	26.5	22.7	11.8	6.8	3.2	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.8	25.9	22.9	10.1	7.9	5.4	28.2	26.3	24.3	8.3	7.3	5.5	
T3	24	21.2	24.6	15.6	8.4	6.3	20.6	23.2	31.1	9.8	8.9	6.3	
T5	22.4	21.4	25.7	20.1	7.5	2.9	17.6	17.2	35.6	11.9	10.9	6.9	
FP1	27.8	23.5	22.8	10.9	9.2	5.8	27.1	23.1	26.9	10.4	7.6	5	
F3	24.2	25.2	28.8	11.3	7.5	3.1	21.4	24.5	33.9	10	6.8	3.4	
C3	22.5	24	28.7	15	6.9	2.9	19.9	22.1	38.7	9.9	6	3.4	
P3	24.5	21.2	24.7	20.7	6.8	2.1	21.9	18.7	37.2	11.8	6.6	3.8	
O1	23.9	23.8	22.4	21.4	6.7	1.8	22.3	28.8	28.8	10	6	4.1	
FZ	25.3	24.8	28.5	11.3	7	3.1	20.9	24.6	36.1	8.9	6.3	3.2	
CZ	19.9	24.9	28.5	18.3	6.1	2.3	19.9	21.8	37.2	12.8	5.6	2.8	
PZ	21.7	21	29.3	20.2	6.2	1.7	24.3	19.4	35.7	12.4	5.5	2.7	
FP2	18.5	17.3	15	8.9	19	21.2	24.5	19.5	22.1	10.3	12	11.6	
F4	23.8	23.5	25.2	11.7	9.4	6.4	20.1	24.3	34.4	8.4	8.1	4.8	
C4	21.2	22.1	26.9	19.7	7.3	2.8	20.7	22.1	33.1	14.4	6.4	3.4	
P4	23	20.3	26.4	21.3	6.9	2.1	26.3	20.1	31	12.4	7.2	3.1	
O2	23.7	25.9	21.9	18.8	7.7	2	24.3	29.2	25.7	9.3	6.6	4.9	
F8	26.5	22.1	18.4	10.6	10.5	11.9	34.5	17.6	20.7	9.3	9.9	7.9	
T4	21.8	18.6	25.5	16.4	10.2	7.5	17.4	21.3	24.9	14.7	13	8.7	
T6	23.8	18.8	25.8	20.8	7.9	2.9	22.5	22.8	24	12.1	11.6	7	

02C

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	22.4	24.6	15.6	9.9	11.1	16.4	29.2	26.1	19.2	11.6	5.9	7.9	
T3	19.8	26.6	20	11.7	8.7	13.3	20.8	21.3	20.9	12.2	8	16.8	
T5	27.3	22.5	20.8	15.1	7.7	6.5	19.9	20.7	26.3	14.1	9.6	9.4	
FP1	25.7	30.3	16.2	8.7	6.7	12.3	25.1	26.2	23.9	12.8	6.2	5.9	
F3	23.2	30.9	22.8	11.5	5.8	5.9	23.5	26	27.2	13.6	5.1	4.5	
C3	22.6	27.4	25.3	16.6	4.4	3.7	25.1	23.6	26.9	14.7	5.3	4.4	
P3	26.1	24.4	20.1	20	5.3	4	24.5	23.9	24.7	13.4	7.5	6	
O1	26.4	18.8	13	28.1	7.5	6.2	18.4	20.4	17.7	16.7	13.8	13.1	
FZ	22.1	31.8	23.5	11.2	5.9	5.8	21.5	24.2	29.3	15.2	5.5	4.3	
CZ	24.7	26.6	26.7	14.5	4.3	3.1	24.3	25	28.9	13.5	4.7	3.6	
PZ	26.5	26.2	16.8	22.3	4.8	3.3	27.7	25.3	23.5	11.6	6.9	5	
FP2	17.1	17.1	11	6.7	14.8	33.2	24.9	23.1	21	12	8	10.9	
F4	20	24.2	20.3	10.8	9.7	15	22.4	24.2	27.2	14.2	6.4	5.7	
C4	23.5	26.3	23.5	17.1	5.3	4.4	24.3	23.4	27.7	14.3	5.8	4.5	
P4	25.2	26.3	17.4	21.4	5.5	4.3	25.9	22.4	24.3	13.1	7.9	6.4	
O2	25.9	19.1	13.5	25.8	8.5	7.2	18.3	19.6	17.5	16.8	13.9	13.9	
F8	23.9	20.2	19	12	9.9	15	26.3	20.8	23.4	13.3	8.1	8.2	
T4	23	22.4	23.5	13.4	8.5	9.2	22.6	20.1	25.4	14.2	8.8	9	
T6	26.5	23.3	18.1	17.4	7.8	6.9	26	20.4	21.1	13	10.3	9.1	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	22.1	18.3	19.7	12.8	11.1	16	23.2	23.6	22.6	11.5	8.5	10.6	
T3	16.6	15.8	13.9	7.8	12.8	33.1	19	24.5	20.4	10	11	15	
T5	19.3	21.2	15.9	11.8	13.8	18.1	18.6	23.1	23.2	13.9	10.2	11	
FP1	27.8	23.2	20.3	12.4	7	9.3	23.5	26.7	24.6	11.9	6.6	6.8	
F3	23.3	24.4	25.9	13.9	6.3	6.2	20.7	26.3	29.9	13.3	5.6	4.2	
C3	22.6	23.1	28.6	14.7	5.7	5.4	20.5	27.1	30	13.7	4.9	3.7	
P3	23.3	23.6	21	12.7	9.7	9.6	23.1	26.4	25.8	12.6	6.8	5.4	
O1	14.7	16.8	11.8	15	20.6	21.1	21.9	19.4	16.7	14.9	14.3	12.9	
FZ	24.8	24.5	24.5	13.6	6.6	6	19.1	24.3	31.8	15.1	5.6	4.1	
CZ	23.9	23.2	27.8	14.7	5.5	4.8	20.6	28.3	30.2	13.5	4.4	3	
PZ	26.4	23	20.9	13.4	9	7.2	25.8	28.3	22.6	12.7	6.4	4.2	
FP2	21.7	18.8	15.6	10	10.3	23.8	19.8	21.9	17.9	11	12.3	17.1	
F4	21.1	22.9	22	13.6	8.4	12	18.8	24.6	25.8	16.1	6.9	7.8	
C4	22.4	25.2	24.8	14.7	7	5.9	19.7	26	27.1	17.3	5.7	4.3	
P4	23.2	22.6	20.4	13.1	11.4	9.3	24.3	26.4	23	12.3	7.5	6.5	
O2	14.3	15.9	11.2	15.7	21.6	21.3	20.7	18.6	16.5	14	15.7	14.5	
F8	21.7	22	21	13.5	9.3	12.5	18.8	23.1	22.1	14.7	9.3	12.1	
T4	15.6	20.1	14.4	8.3	9.7	31.8	14.1	19	19.4	9.2	8.9	29.3	
T6	22.2	20.8	16.5	12.1	14.3	14.1	20.8	22.9	21.8	12.2	11.3	10.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	21	17.4	18.5	14	11.6	17.8	29.9	19.9	17.3	10.9	9.1	12.8	
T3	20.8	23.1	19.3	10	9.5	17.2	28.1	20.8	17	8.8	8	17.3	
T5	25.9	23.9	20.1	16.6	7.6	5.9	26.2	26.4	20.5	11.1	7	9	
FP1	23.7	22.9	20.5	15.7	7.5	9.6	31.7	22.2	22.2	10.4	5.8	7.6	
F3	23.9	22.7	24	17.3	7.3	4.9	24.7	23.1	29.2	12.5	5.6	4.9	
C3	21.3	25.1	25.6	18.8	5.2	3.9	24.2	20.7	30.5	14.6	5.5	4.5	
P3	24.5	24	19	22.5	6.4	3.7	28.2	25.4	25.1	10.2	5.9	5.1	
O1	18	19.2	14.2	34.2	8.8	5.8	26.7	24.1	20.1	10.5	8.4	10	
FZ	21.8	22.7	22.1	20	7.7	5.7	24	24.3	31.2	10.8	5.1	4.5	
CZ	20.7	22.5	25.7	22.3	5.6	3.2	26.4	20.5	34.4	11	4.5	3.3	
PZ	18.6	23.3	19.6	27.8	7.2	3.5	32.6	24.3	25.4	9.3	4.6	3.8	
FP2	18.3	18.8	13	11.8	11	27.1	29.7	19.9	18.9	7.8	8.9	14.8	
F4	19.9	19.6	17.6	17.3	11.2	14.5	25.4	24.5	26.4	10.1	6.1	7.5	
C4	18.5	24.4	22	22.2	8	4.8	24.5	20.9	28.9	15.5	5.3	4.9	
P4	18.2	24.9	18	28.1	6.9	3.9	28.3	25	24	11.7	5.9	5.1	
O2	19.1	20.9	14.8	30.9	9.3	5	26	24	22	10.1	8.8	9.1	
F8	23.2	15.7	17.5	18.5	10	15.1	35.1	24.7	19	7.9	5.4	7.9	
T4	26.5	21.1	17.6	15	8.7	11.2	24.2	24.4	21.8	10.9	5.9	12.8	
T6	24.9	22.7	21.6	18.8	7.1	4.9	27	25.1	21.8	11.2	8.2	6.8	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	21.7	20	21.4	11.9	8.2	16.8	21.6	17.3	20.9	10.2	9.3	20.6	
T3	9.5	10.9	13.5	8.9	23.9	33.3	10	12.8	16.4	9.3	19.6	31.9	
T5	14.2	16.7	19	12.1	15.2	22.7	9.4	18.3	19.5	13	15.9	23.9	
FP1	24	21.5	22.9	10.9	7.6	13	26.4	20.4	24.3	10.5	7.2	11.2	
F3	20.2	23.3	31	11.9	6	7.6	18.2	23.2	35.9	11	5	6.6	
C3	17.4	22.4	34.9	13.4	5.8	6.1	18.8	17.2	41.7	11.9	5.2	5.2	
P3	20.8	23.1	28	16.3	6.3	5.6	18.1	21.5	32.2	14.1	7.2	6.8	
O1	21.8	24.8	19.8	18.2	7.6	7.8	6.8	12.2	15.5	21.5	20.2	23.8	
FZ	18.1	23.8	33.9	12.7	5.2	6.4	15.7	20	42.2	12.3	4.4	5.4	
CZ	17.4	19.9	37.6	15.5	4.9	4.8	19.6	21	40.4	11.7	4	3.3	
PZ	27.2	26.5	21.5	16.7	4.6	3.5	24.7	22.1	32.2	12.6	4.7	3.7	
FP2	27.5	21.4	20.5	10	7.1	13.6	30.9	18.3	20.9	10.6	8.2	11.1	
F4	16.6	24.8	30.1	13.6	6.4	8.5	17.3	20.1	37.2	13.8	5.4	6.3	
C4	18.5	22.8	30.3	16.1	6.3	6	18.2	20.4	36.8	14.4	5.4	4.8	
P4	25.1	25.9	18.9	19.4	6.1	4.7	18.8	20.6	31.7	14.8	7.1	7	
O2	25.5	27.3	18.2	18.4	6	4.6	11.5	14	20.7	21.1	15.2	17.5	
F8	18	18.6	22.8	13	9.4	18.1	22.9	18.9	23	12	9.6	13.5	
T4	10.4	9.3	8.4	9.7	28.9	33.3	8.4	6.9	7.1	9.7	29.4	38.5	
T6	25.3	24.3	19.7	14.2	7.7	8.9	16.3	20.1	23.1	13.5	11.4	15.5	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	18.8	17.4	18.4	15	9.8	20.6	24.8	20.1	19.6	10.2	8.2	17.1	
T3	12.5	11.1	12.9	14.3	23.1	26.1	12.9	13.5	16.2	9.7	20.2	27.4	
T5	15.5	16.3	13	14.5	16.8	24	13.1	15.7	16.5	15.2	16.9	22.6	
FP1	30.3	20.9	21.1	12.1	6.4	9.3	26.1	25.5	19.9	12	5.8	10.7	
F3	15.9	22.9	30.3	20.2	4.5	6.1	16.7	24.6	31.6	15.3	5.5	6.3	
C3	14.5	20.5	30.9	25.4	3.9	4.8	17.1	21.4	35.8	15.1	4.6	6	
P3	24.2	20.1	21.4	19.7	6.8	7.8	19.6	22.5	27.4	16.6	6.1	7.8	
O1	6.8	5.9	6.4	19.7	27.2	34	9.3	14.4	10.3	17.9	19.2	28.9	
FZ	13.4	20.2	35.8	21.1	4.4	5.1	15.5	21.5	36.9	15.9	4.7	5.5	
CZ	19.8	20.9	29.4	22.2	3.6	4.3	18.4	19.5	37.1	17	3.7	4.3	
PZ	31.7	21.1	19.2	17.3	4.7	5.9	22	27.2	27.3	14.6	4.5	4.5	
FP2	31.4	17.9	20.5	10.8	6.8	12.6	28.1	22.9	19.5	9.7	8.1	11.8	
F4	15.5	19.4	31.5	19.7	6.2	7.8	14.9	23.6	33.8	14.7	5.6	7.4	
C4	19.2	16.9	32.4	19.5	4.7	7.3	17.7	23.3	33.4	14.8	5.1	5.7	
P4	28.3	22	19.6	14.7	6.7	8.7	22	28.5	24.6	12.3	5.9	6.6	
O2	15	11.7	11.2	20	18.2	24	14.5	24.2	18.5	15.4	11.6	15.9	
F8	21.9	17.3	21.5	15.1	7.8	16.5	29.7	19.3	18.3	10.5	8.2	14.1	
T4	10.7	7.1	8.5	9.4	27.8	36.4	10.5	7.2	7.8	10.1	30	34.4	
T6	21.8	17.3	14.7	14.1	12.6	19.6	22	25.5	17.8	14.9	8.8	11.1	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	17.4	15.1	19.7	13.4	12.4	22	16	17.8	22	10.9	12.3	21	
T3	11	10.5	12.9	8.4	21	36.1	12.5	14.1	18.8	10.2	19.1	25.3	
T5	19.3	16.2	19.8	11.9	13.2	19.7	12.8	14.7	19.7	11.1	19.7	22.1	
FP1	21.6	19.8	21.7	12.9	8	15.9	29.5	22.4	22.1	10.5	6.8	8.6	
F3	21.8	17.7	31.8	16.5	6	6.3	18.8	22.5	34.9	12.9	5.3	5.6	
C3	21.5	19.2	34	15.3	5.2	4.9	12.9	19.4	42.1	15.7	5.1	4.9	
P3	25.8	20.9	25.5	17.4	6	4.4	16.5	22.3	33.4	14.5	6.6	6.6	
O1	19.9	18.7	16.2	20.9	12.2	12.2	11.5	17.5	16.6	15.4	17.1	22	
FZ	19.7	17.2	35.5	17	5.2	5.4	16.6	20.5	38.3	13.9	5.3	5.3	
CZ	19.9	21.3	34.3	17	4	3.5	18	21.5	38.8	13.1	4.6	4	
PZ	28.4	21	21.5	21.2	4.9	3	20.2	31.4	27.7	11.1	5.7	4	
FP2	18.6	14.6	15.4	10.2	16.4	24.7	30.9	18.5	23.1	10.8	6.6	10.1	
F4	20.4	18.7	29.1	16.3	7.2	8.4	18.9	21.2	33.9	13	6.7	6.3	
C4	22.7	20.7	29.5	17.2	5.5	4.4	16.7	23.6	33.7	13.5	6.3	6.3	
P4	26.1	24.4	17.2	21.5	6.4	4.5	17.8	29	29.1	10.8	7.3	6.1	
O2	25.1	26.8	13.7	22.8	6.7	4.9	13	24.2	22.2	14.8	13	12.9	
F8	18.7	16.1	18.9	10.8	12.4	23.1	23.8	16.2	23.3	12.6	10.1	13.9	
T4	6.3	5.4	5.4	5.2	37.6	40.1	13.9	10.8	13.7	10.5	25.6	25.5	
T6	26.5	27	17.7	12.7	7.3	8.8	23.6	18.8	22.2	11	11.3	13.1	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.6	20.2	19.5	13.8	9.3	9.5	38.2	21.4	16.5	11.1	6.7	6.1	
T3	19.9	17.1	17.6	13.5	10.3	21.6	22.9	17	17.7	8.7	10.6	23.1	
T5	17.6	15.9	21.4	33.6	7	4.5	25.8	17.7	22.3	17.7	8.3	8.1	
FP1	25.9	20.5	21.4	13.4	7.7	11.1	31.3	20.5	22	12.4	8.2	5.6	
F3	24.4	23	26.5	15	6.6	4.6	28.5	22.6	24.3	13.5	6.6	4.5	
C3	20.6	17.1	28	26.2	5.5	2.7	29.6	21.7	21.1	17.7	6.7	3.2	
P3	17.7	15.8	21.5	34.2	6.8	4.1	26.3	18	22.5	17.7	8.1	7.3	
O1	18	14.8	14	41.3	6.9	5.1	17	16.2	21.9	20.9	11.4	12.6	
FZ	23.4	22.9	30	14.5	5.7	3.5	26.6	22.4	26.5	13.9	6.7	4	
CZ	21.6	20.1	29.3	21.3	5.1	2.6	28	24.6	24.7	14.9	5.1	2.6	
PZ	22.1	17.9	18.9	33.9	5	2.2	31.8	22.3	19.5	17.5	6.2	2.7	
FP2	35.7	18.8	20.2	11.6	6.6	7	40.9	18.9	18	10.3	6.5	5.4	
F4	21.2	24.2	28.6	15.3	6.1	4.5	24.4	22.1	26.5	15.6	7	4.6	
C4	20.8	20	28.1	22.3	5.8	3	26	24	24	16.3	5.9	3.6	
P4	24	18.9	18.8	29.7	5.8	2.7	27.3	23.6	20.7	18	7.1	3.4	
O2	19.8	16.5	14.3	34.6	8.4	6.3	18.2	17.6	20.1	21.9	11.3	11	
F8	19.4	18.9	22.2	15.2	10.9	13.4	24.2	20.9	21.3	13.1	10.1	10.4	
T4	22.3	20.1	23.2	18.5	8.7	7.1	21.8	18.6	22.9	11.1	12.7	13	
T6	24.7	17.4	20.3	21.3	9.3	7.1	18.8	19.3	20.9	15.7	10.2	15.2	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.4	20.6	16.5	14	7.4	8	26.8	18.5	21.8	14.5	8.8	9.6	
T3	25	17.4	15.5	10.2	9.2	22.7	20.4	14.7	18.1	9.8	10.7	26.2	
T5	20.6	21.9	21.6	14.6	10.3	11	28.4	18.6	18.1	17.7	9.1	8	
FP1	31.8	22.8	18.9	13.2	7	6.2	31.2	19.7	18	15.5	7.6	7.9	
F3	26	27.2	23.5	13	5.9	4.3	22.6	20.6	25.1	19.2	6.6	5.8	
C3	22.9	24.9	28.6	14.7	5.4	3.5	19.3	16.2	17.6	38.3	5.3	3.2	
P3	20.9	22.3	22	14.8	9.9	10	28.3	19	18.3	18.1	9	7.3	
O1	14.2	18.7	14.7	17.7	15.5	19.2	23.4	13.4	11.1	19.2	13.4	19.5	
FZ	26.5	27.3	25.4	11.8	5.7	3.3	22.2	22.1	26.8	18	6.3	4.7	
CZ	23.4	27	27.9	13.9	5.1	2.8	19.9	20.3	31.2	19.1	5.4	4.2	
PZ	26.3	25.7	21.7	16.3	6.4	3.7	24.7	21.9	24.4	18.2	6.7	4.1	
FP2	37.8	21.4	17.9	10.9	6.6	5.4	45.7	19.3	14.3	10.7	5.5	4.6	
F4	25.5	27.2	23.4	13.4	6.6	3.9	23.5	22.1	24.3	17.9	6.7	5.4	
C4	25.9	23.9	26.1	14.8	6.2	3.1	22	17.3	28.3	21.2	7	4.1	
P4	25.2	24.1	21.8	16.9	7.4	4.6	27.7	19.9	23.2	15.6	8.3	5.2	
O2	14.9	17.5	14.7	19.9	13.9	19.1	21.7	11.5	10.7	20.3	16.1	19.6	
F8	24	20.8	21.1	15.5	8.8	9.7	29.4	20.5	21.9	11.7	8.1	8.4	
T4	29	21.3	20.5	11.9	9	8.2	28.9	20.1	23.7	10.5	8.9	7.8	
T6	25.2	19.7	19.2	14.6	10.8	10.5	25.9	18.9	18.2	13.6	12.4	10.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.1	18.7	20.4	14.4	8.9	10.4	38.2	21.6	15.8	10	7	7.5	
T3	17.9	14.1	18	11.7	10.5	27.8	25.8	18.5	18.1	8	8.6	20.9	
T5	21.7	16.6	17.3	32.5	6.7	5.4	25.7	20.8	19	13.2	9.6	11.8	
FP1	24.6	16.9	21	14.4	8.7	14.4	33.6	19.6	20.6	9.3	8.4	8.4	
F3	26	20	25.8	15.5	7.4	5.2	29.9	26.4	25	10.1	5.5	3.2	
C3	25.5	16	23.1	26.5	5.9	3.1	30.6	23.7	24.1	12.1	6	3.5	
P3	21.5	16.6	17.2	33.6	6.4	4.8	26.3	21.3	19.5	13.2	9.3	10.4	
O1	18.8	18	12.5	32.3	10.7	9.8	14.4	14.7	15.8	15.1	18.4	21.7	
FZ	25.7	19.9	27.5	16.1	6.3	4.6	30.4	24.9	26.5	10.7	5.2	2.4	
CZ	25.6	21	25.8	19.6	5.3	2.8	29.8	26.3	23.4	12.9	5	2.5	
PZ	26	17.8	15.9	32.9	5.3	2.2	28.5	25.7	21.6	14.3	6.3	3.5	
FP2	31.7	17.1	16.6	12.1	8.8	13.6	31.5	19.8	21.7	12.3	7	7.8	
F4	24.2	20.1	24.4	18.8	6.9	5.7	28.7	24.5	26.7	11	5.7	3.5	
C4	24.5	18.9	22.4	23.9	7	3.2	31.6	24.2	22.6	13.9	5.1	2.5	
P4	27.2	17.1	15.9	30.4	6.3	2.9	27.4	24.4	22.2	14.2	7.3	4.5	
O2	19.6	16.7	13.5	29.8	11.2	9.3	15.3	15.6	13.9	13	17.8	24.4	
F8	23.5	17.3	18.3	14.1	10.2	16.5	23.5	22.3	24.3	12.1	9.1	8.7	
T4	25.2	18	17.9	14.3	11.7	12.8	30.5	22.1	22.1	10.9	7.3	7.2	
T6	20.8	14.8	15.4	18	10.7	20.2	24.2	22.3	23.1	10.8	10.3	9.2	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	17.1	13.4	25.7	13.6	16.7	13.5	25.4	16	34.4	9.2	10.3	4.7	
T3	13.8	17.9	27.1	19.6	15.5	6.2	19.3	16.6	36.1	11.9	12.5	3.6	
T5	18.3	16.4	22.9	24.6	9.6	8.2	15.2	18	31.7	15	11.7	8.4	
FP1	19.7	16.3	27.9	12.2	12.1	11.8	21.2	19.2	38.2	9.4	8.9	3.1	
F3	16	13.1	35	14.2	12.5	9.2	15.8	18.1	43.7	9.4	9.3	3.7	
C3	16.5	14.9	33.3	23.4	9.7	2.3	15.3	17.1	41.2	14.7	10	1.8	
P3	20.8	15.3	22.8	32.7	7	1.5	18.7	17.7	36.9	15.8	9	1.9	
O1	20.4	18.6	21	29.9	7.7	2.4	14.3	19	34.5	20.6	9.1	2.4	
FZ	17.4	14.3	41.3	15.5	9.2	2.3	15.6	20.2	44.5	10.1	7.9	1.7	
CZ	15.9	16.1	33.8	26.1	6.8	1.3	14.8	18	45.6	13.5	6.8	1.3	
PZ	18.8	12.9	26.5	34.1	6.6	1	17.7	16.6	40.8	16.5	7.2	1.2	
FP2	19.1	15.4	28.2	12.8	12.6	12	20.6	18.4	38.9	10.7	8.7	2.8	
F4	13.4	12.1	35.9	15.3	14.9	8.4	13.2	17.6	42.8	10	11.8	4.7	
C4	13.5	16.4	31.9	25.5	10.7	1.9	12.6	17.3	45.2	14.2	9.2	1.5	
P4	17.8	13.9	25.3	32.9	8.6	1.5	16.5	17.8	39.1	17.4	7.7	1.5	
O2	18	16.7	24.5	28.9	9.3	2.6	14.9	18.6	35.1	19.7	9.1	2.7	
F8	16.8	13.8	27.8	17.7	15	8.9	21.3	17.5	35.1	10.8	11.1	4.2	
T4	14.1	11.7	18.8	17.3	20.9	17.1	13.5	15.6	26	12.8	18.1	14	
T6	15.4	13.2	21.2	20.7	17.3	12.2	15.6	16	34.5	16.3	11	6.6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.4	15.7	21.7	14.5	12.2	7.5	37.1	16.7	24.6	9.9	7.7	3.9	
T3	25.1	16.2	24.7	18.7	11.2	4.1	21.7	20.2	28.9	14.8	11.7	2.7	
T5	23.3	14.8	23.9	13.9	12.7	11.3	22.1	23.1	25.5	12.9	9.9	6.4	
FP1	35.2	19	24.5	11.3	6.9	3.1	43	18	22.1	8	5.1	3.6	
F3	24	16.4	31.7	12.5	10.2	5.3	23.5	14.4	39.9	11.5	7.3	3.4	
C3	23.7	19.3	31	16.8	7	2.3	16.1	16.6	38.3	19.4	7.5	2.1	
P3	28	16.3	28.7	16.1	8.1	2.7	23.1	22.6	31.2	14.1	7.2	1.8	
O1	22.2	17.6	25	19.2	9	7	21.8	24.5	28	15.9	7.6	2.2	
FZ	23.1	18	39.6	10.5	6.8	2.1	22.7	16.4	42.5	9.4	6.5	2.5	
CZ	24.5	20.8	32.2	15.8	5	1.9	18.2	19.6	43.8	11.3	5.6	1.4	
PZ	27.9	18	28.2	18.2	5.8	2	21.8	24.6	34.7	11.7	5.6	1.4	
FP2	36	18.1	27.3	9.7	6.6	2.3	47.6	16.4	20.9	7.2	5.3	2.5	
F4	21.9	18.1	36.6	10.8	8.1	4.4	24	17.2	38.8	9.3	7.1	3.5	
C4	22.3	20	34.9	15.2	5.4	2.2	17.7	20.7	36.5	14.8	8.3	2	
P4	24.9	19.6	29.8	16.6	6.6	2.5	26.5	23.8	27.8	12.6	7.2	2	
O2	18	17.4	24.7	20.9	9.4	9.5	19.6	24	28.2	16.9	8.7	2.6	
F8	25.6	15.9	31.5	13.2	8.5	5.3	27.8	19.1	27.2	11.9	9	5	
T4	18.7	12.7	17.8	14.9	18.2	17.5	25.2	18	26.4	13.7	10.9	5.8	
T6	21	18.3	25.1	16.1	10.9	8.6	18.4	19.8	26.6	14.9	11.8	8.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	17.9	15.8	38.3	12.7	10.3	5.3	31.5	18.6	22.6	9.9	10.5	6.9	
T3	21.4	17.2	29.3	13.6	13.1	5.4	30.5	16.3	22.4	12.9	13	4.9	
T5	17.5	18.4	26.1	22	9.4	6.6	25	15.3	25.9	11.9	12.2	9.6	
FP1	17.9	15.7	45.1	10.4	7.7	3.3	29.9	17.3	29.6	10.6	8	4.6	
F3	14.1	15.4	50.8	10.4	7	2.3	22.2	18.2	31.8	9.6	11.1	7	
C3	15.3	18.1	34.6	21.5	8.8	1.7	21.2	19.2	34.9	14.8	7.6	2.4	
P3	19.2	18.6	27.3	26.1	7.4	1.4	26.9	17.5	30.8	12.8	9	3	
O1	18.9	21.2	24.1	26.8	7	2	22.4	18.5	28.4	15.3	10	5.3	
FZ	14.1	17.2	49	11.7	6.2	1.8	22.7	18.8	38.6	10.5	7	2.4	
CZ	14.6	16.6	38.5	23.3	5.7	1.4	19.6	20.3	40	12.4	5.6	2.1	
PZ	16.2	14.6	30.3	32.1	5.8	1.1	23.9	19.9	32.1	14.2	7.3	2.6	
FP2	19.9	16.6	45.1	8.9	7	2.6	26.4	19.9	30.5	11.5	8	3.8	
F4	15.8	17	46.9	11.1	6.4	2.7	21.5	17.9	35.4	10.2	9.4	5.6	
C4	15.6	16.4	38.3	20.8	7.1	1.8	17.8	22.1	36	13.5	8.2	2.7	
P4	18.3	17.4	32	24	6.8	1.5	26	19.9	29.4	13.1	8.2	3.3	
O2	17.5	20.4	26.9	25	8	2.2	19.5	17.1	23.9	19.7	10.9	9	
F8	18.3	15.1	41.6	11.7	7.6	5.7	24.6	19.2	27.7	11	11.7	5.7	
T4	16.7	13.2	26.5	15.4	13	15.2	15.6	13.1	18.7	12.3	20.5	19.9	
T6	15.8	13.9	29.4	19.9	12.8	8.1	21.9	16.8	20.6	12.8	14	14.1	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.8	20.2	30	12.2	8.1	3.6	24.9	18.3	32.9	11.2	7.8	4.9	
T3	23.7	17.4	27.2	15.5	10	6.3	22	17.8	31.6	11.8	9.6	7.3	
T5	23.5	21.1	24.9	16.4	8.7	5.6	22.4	20.1	28.2	12.7	7.7	8.8	
FP1	22.8	22.3	30.8	11.7	8.2	4.2	25.5	20.2	32.1	10.1	7.3	4.8	
F3	21.7	20.7	31.9	14.8	7.6	3.3	21.6	21	34.6	12.1	6.8	4	
C3	20.7	17.5	28.8	22.6	7.3	3.1	18.1	19.3	34.4	19.4	5.7	3	
P3	17.3	16.9	28.6	26.8	7.5	2.8	19.9	17.1	33.3	20.2	6.1	3.4	
O1	24.5	20.1	21.2	18.9	10.3	5	18.4	20.3	29.4	16.2	7.5	8.2	
FZ	23.6	20	31.5	14.7	7.1	3.1	24.2	21.7	33.1	12.5	5.6	2.9	
CZ	17.6	19	32.9	21.9	6.1	2.5	20.9	18.6	35.5	17.7	4.8	2.5	
PZ	16.9	16.4	30	28.7	5.7	2.3	21	17.3	33.6	20.2	5.1	2.8	
FP2	24.9	22.9	29.7	11.2	7.8	3.5	27.1	20.2	31.8	10.3	6.9	3.7	
F4	23.8	20.2	30	15.6	7.2	3.2	23.2	21.9	33	12.4	6.4	3.2	
C4	17.2	17	31.2	24.7	6.9	3	20.1	21	31.6	18.3	6.4	2.6	
P4	20.4	16.6	27.8	26.1	6.5	2.5	21.1	18.5	31.2	19.6	6.3	3.3	
O2	25.4	18.9	22.2	20.5	9.1	3.8	21.1	17.5	26.7	18.7	8.1	7.8	
F8	24.6	19.6	26.2	14	9.3	6.3	26.8	20.2	29	10.6	7.7	5.7	
T4	17.8	9.9	17.8	14.7	19	20.9	21.3	17	24.9	11.1	13.5	12.2	
T6	23.1	16	26.6	20.3	9.3	4.8	24.1	20.1	25.1	14.4	10	6.3	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.9	21.3	32.8	10.5	6.4	3.2	28.2	18	26	14.3	9	4.6	
T3	26.9	17.9	27.3	14.5	8	5.3	23.4	21.8	24.5	14.5	9.7	6	
T5	21.9	17.1	31.1	12.2	8.9	6.8	25.3	22	20.5	11.6	10	10.6	
FP1	25.8	19.1	35.3	10.9	5.4	3.4	32.6	16.9	26.1	12.9	7.2	4.3	
F3	27.1	19.7	33.3	11	6.1	2.8	27.6	17.2	26.6	14.9	9.4	4.2	
C3	25.8	19.1	31.3	14.2	6	3.5	21.9	19.4	22	22.1	10.4	4.2	
P3	22.9	19.4	31.6	15.5	6.8	3.8	25.5	20.3	23.6	17.2	8.5	4.9	
O1	21.4	18.7	27.4	14.8	9.3	8.4	19.3	19.9	20.6	12.5	12.9	14.7	
FZ	22.2	17.7	39.6	11.7	6.1	2.7	27.8	16	26.9	16.4	9.1	3.8	
CZ	21.2	21.7	35.3	13.1	5.7	3	25.7	17.3	29.8	15.9	7.8	3.6	
PZ	21.6	20.6	33.7	14.9	5.7	3.4	28.4	19.3	26.3	15	7.2	3.8	
FP2	24.8	19.3	36	11.6	5.4	2.9	29.3	17.8	27.6	12.8	8.1	4.3	
F4	22.5	18.3	37	12.8	6.6	2.8	24.7	17.2	26.5	17.8	9.6	4.3	
C4	20.8	20.2	30.8	17.7	7	3.6	21.5	14.8	28.3	21.8	9.3	4.3	
P4	23.3	20	29.6	15.9	7.4	3.9	27.3	18.4	24.3	17.8	8	4.1	
O2	20	18.1	26.6	15.9	10	9.4	24	20.2	21.2	15	10.9	8.7	
F8	25.8	21	28.7	11.6	7.1	5.9	28.6	20.1	20.6	15.4	9	6.4	
T4	17.7	16.1	28.5	14.4	12	11.3	15.6	12.4	16.7	13.9	19	22.4	
T6	23.3	17.7	25	13.7	11.7	8.5	19.3	23.3	22.8	17	10.2	7.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	31.5	20.4	26.5	11.1	7	3.6	23.5	17.6	36.9	13.2	5.8	3.1	
T3	29	22.3	21.5	13.2	8.2	5.8	26.7	20.7	26	13.4	7.6	5.6	
T5	28.1	17.5	23.3	10.1	10.4	10.8	24.7	17.8	28.5	14.6	8.1	6.3	
FP1	27.4	20.6	28.9	11.8	7.4	4	21.8	17.1	37.2	11.3	8.2	4.4	
F3	28.3	20.8	28.8	11.7	7	3.4	22.3	17.6	37.2	14.3	5.8	2.8	
C3	22.9	21.7	31.4	13.8	6.8	3.4	20.8	18.5	32	20.5	5.9	2.2	
P3	23.7	21.4	29.7	13	8.2	4.1	21.6	16.7	31.9	21.6	6	2.2	
O1	20.8	16.6	20.9	14.2	13	14.4	22.3	17.8	24.5	17.5	10.1	7.9	
FZ	23	21.4	33.3	12.2	7	3.1	22.2	18.5	36	14.8	6	2.5	
CZ	20.2	21.9	36.4	12.4	6.2	2.9	21	18.3	36.4	17.4	4.9	2	
PZ	22.4	22.5	30.4	13.6	7.4	3.7	20	15.9	33.6	22.9	5.6	1.9	
FP2	25	22.1	31.3	11.7	6.5	3.4	22.9	18.7	36.4	12.9	6.2	2.8	
F4	23	21.6	32.5	12.2	7.5	3.2	22.8	18.1	35.3	14.7	6.4	2.6	
C4	20.1	21.5	30.9	16.5	7.6	3.5	21.4	16.4	35.2	17.9	6.7	2.4	
P4	21.4	23	26.4	16.2	8.7	4.4	22.1	16.3	30.9	21.5	6.9	2.4	
O2	21.8	18.6	19.9	15.4	12.4	11.7	23.6	18.7	25.2	17.8	9.2	5.6	
F8	27.2	21.4	26.6	11.9	8.1	4.9	23.5	17.1	33.1	12.8	7.7	5.9	
T4	19	21.5	26.7	15	10.3	7.5	18.6	15.8	25.6	12.2	14.7	13.1	
T6	22.3	21	21.7	14.2	11.7	9.2	21.3	18.8	28.3	16.1	10.2	5.2	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.5	27	18.2	12.9	8.2	7.2	32.1	25.1	18.9	9.7	6.6	7.5	
T3	22.8	26.3	24.7	13.2	7.7	5.3	25.2	22.2	24.4	10.4	8.5	9.2	
T5	24.4	24.4	23.9	15.5	7.3	4.4	17.9	23.5	23.5	13.8	10.3	11	
FP1	29.3	27.7	18.6	9.6	8	6.9	26.8	28.9	19.9	8.7	6.8	8.9	
F3	25.6	31.4	22.2	11.6	5.8	3.5	21.5	29.1	29.3	10.8	5.6	3.7	
C3	22.6	27.9	26.1	14.3	6.5	2.7	19.5	27.7	30.5	13.2	6	3.2	
P3	24.3	24.3	24.9	18	6.1	2.4	21.2	31.1	25.7	12.9	6	3.1	
O1	26.2	23.1	21.4	19.7	6.6	3.1	19.2	25	23.1	16.4	8.5	7.8	
FZ	24	32.8	23.9	11.2	5.3	2.8	21	31.4	30.5	9.7	4.7	2.6	
CZ	22.5	27.6	29.3	13.9	4.7	2.1	20.6	29.7	30.8	11.8	4.8	2.3	
PZ	26.2	23.5	23.4	19.9	4.9	2.1	22.4	30.8	25.8	12.7	5.6	2.7	
FP2	27.2	26.3	17.4	9.5	9.4	10.1	30.1	26.3	19.1	8.2	7.8	8.6	
F4	22.2	32.7	25.1	11.2	5.6	3.2	19.5	32.4	29.6	9.7	5.5	3.3	
C4	21.2	28	27.5	14.9	5.4	3	22.7	27.9	27.9	12	6	3.4	
P4	24.1	21.4	23.5	22.7	5.6	2.7	22	28	25.7	13.9	6.6	3.8	
O2	24.4	22	19.9	22.5	7	4.2	19	23.9	24.5	15.2	8.9	8.5	
F8	26.7	26.4	19.6	12.6	8	6.7	31.9	20.8	21.4	10.3	8.2	7.5	
T4	21.4	24	26.1	16.4	6.9	5.3	28.5	26.5	21.8	11.8	5.8	5.6	
T6	23.3	21.9	23.6	19	7.2	5	22.2	23.5	22.4	13.7	10.2	7.9	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.3	20.6	19.1	12.6	6.7	8.7	37.8	24	16.4	8.3	6.9	6.6	
T3	30.9	24.1	20	9.5	7.9	7.7	33.7	22.2	18.6	11.8	7	6.7	
T5	26.3	13.3	17.8	10.6	15.9	16.1	25.1	23.2	18.6	14	9.8	9.2	
FP1	23.7	18	16.2	9.6	12.9	19.7	34.1	26.5	16.9	7	7.9	7.6	
F3	23.1	25.2	28.1	12.5	6.2	5	22.8	28.7	28.7	10.1	5	4.7	
C3	25.4	22.2	32.7	11.1	5.1	3.4	24.4	25.4	29.5	13.2	4.3	3.3	
P3	28.3	20.7	29	11.3	6.8	4	27.5	28.1	25	11.5	4.7	3.2	
O1	25.8	19.7	19.9	11.8	11.7	11.1	23.4	30.1	20.6	11.8	7.4	6.9	
FZ	20.7	28.8	30.8	10.5	5.2	4	21	31.3	32.1	8.5	4.2	2.9	
CZ	25.5	20.9	33.9	12.2	4.3	3.2	21.4	24.5	34.9	12.4	4	2.8	
PZ	29.4	21.6	28.1	11.2	6.2	3.5	28.2	26.7	25.9	11.2	5	3	
FP2	23.9	18	15.4	10.1	11.7	20.9	36.3	24.5	19	6.5	6.2	7.5	
F4	19.7	28.4	30.1	11.6	5.3	4.9	21.5	30.4	31.1	8.6	5.1	3.3	
C4	28	23.5	28	12	4.6	3.9	21.3	27.7	32.5	11.6	4.2	2.7	
P4	29.3	22.6	26.3	11.2	6.4	4.2	26.5	25.9	25.7	12	6	3.8	
O2	26.6	19.4	19.5	11.4	11.6	11.5	23.7	27.1	21.2	10.3	8.4	9.3	
F8	28.4	23.2	18.8	10	8	11.6	30.2	26.1	22.3	9.5	6.5	5.4	
T4	29.6	25.9	19.5	11.2	6.9	6.8	28.1	24.5	24.7	12	6.1	4.6	
T6	28	18.2	16.1	10.3	14.5	14.9	22.3	21.8	25.3	13.3	9.3	8.1	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.6	23.2	23	9.7	7.7	7.8	38	21.3	18.1	8.6	5.9	7.9	
T3	29.1	24.9	23.3	9.9	6.9	5.9	32	22.7	20.4	8.6	6.8	9.5	
T5	24.6	21.7	27.6	12.7	7.4	6.1	22.5	20.3	18.5	12.4	13.9	12.3	
FP1	25.3	22.1	21.1	10.3	9.4	11.8	19.9	17.9	14.6	5.6	15.3	26.8	
F3	21.2	29.2	30.8	10.7	4.8	3.2	24.2	26.4	29.1	8.5	6.4	5.3	
C3	22.8	26.8	28.3	13.8	5	3.1	23.5	25	29.1	12.6	5.9	3.9	
P3	23.7	23.1	26.2	18.4	5.6	3	27	21.7	25.1	14.4	7.2	4.6	
O1	22	21.6	16.5	19.1	11.5	9.4	26.7	21.4	20.4	12.9	9.1	9.4	
FZ	21	28.6	30.7	11.9	4.7	3	22.2	27.9	32.6	8.2	5.1	4	
CZ	26.8	26.9	26.3	13.8	3.9	2.3	22.2	25.7	30.9	12.3	5.1	3.7	
PZ	27	21.9	20.6	22.9	5.2	2.4	29.8	22.5	25.1	13.5	5.7	3.4	
FP2	26	20.5	17.8	9.1	10.1	16.4	16.7	15.4	12.8	5.6	17.1	32.3	
F4	20.5	28.6	29.9	12.3	5.2	3.5	21.3	27.1	33.3	8.3	5.4	4.7	
C4	24.7	28.2	26.4	13.2	4.5	3	22.7	25.8	29.6	12.2	5.6	4.1	
P4	25.2	22.7	19.7	23.1	6.3	3	28.2	22.5	25.3	12.7	6.5	4.7	
O2	25.2	20.2	16	20.9	9.6	8	28.4	21	16.6	12.4	10.2	11.4	
F8	30.1	23.5	19.2	11.8	8	7.3	31.7	21.2	17.9	7.9	10.1	11.1	
T4	28.2	27.4	20.5	11.4	6.8	5.8	28.2	25.5	19.9	10.5	7.8	8.1	
T6	25.4	25.9	20.6	14.2	8.7	5.2	27.9	22.5	14.4	10.4	12.9	11.9	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	24.5	23.2	20.9	17.5	9.4	4.6	24.2	22.5	24.2	14.5	9.6	5	
T3	20.2	23	20.8	16.9	12.5	6.7	21.9	20.7	26.8	15.1	11.8	3.7	
T5	18.4	19.4	18.9	13	19.5	10.8	15.8	20.9	26.9	16.6	15.6	4.1	
FP1	23.9	24.2	26.1	13.6	8.7	3.6	23	21.2	26.9	14.7	8.7	5.4	
F3	17.9	23.1	26.7	18	10.6	3.8	17.8	20.4	31	17.1	10.4	3.3	
C3	15.6	21.7	28.6	19.9	10.7	3.5	15.4	20.7	30.5	21	9.5	2.9	
P3	17.6	23.2	28.2	14	13.5	3.6	19.1	23.1	22.7	19.2	12.8	3.1	
O1	19.2	22.4	21.8	15.4	14.9	6.3	11.9	14.9	28.1	24	11.8	9.3	
FZ	17.1	24	30	15.9	10	3.1	18.5	21.7	33.2	16.1	8	2.5	
CZ	18.7	21.8	31.1	15.2	10.2	3.1	20.7	19.6	29.2	20.2	8.2	2.1	
PZ	19.7	24.2	26.4	13.1	13.5	3.1	19.7	18.1	21.5	27.4	10.8	2.4	
FP2	24.4	23.8	25.6	13.4	8.8	3.9	22.7	20.4	26.6	14.5	8.7	7.1	
F4	21	24.1	27.1	13.1	10.8	4	19.8	21.5	27.7	14.7	10.5	5.9	
C4	21.9	21.1	28	14.8	10.7	3.5	17.4	20.5	29.7	17.9	11.8	2.8	
P4	20.4	22.5	25.5	14.4	13.9	3.4	17.6	18.6	24.1	23.1	13.8	2.8	
O2	18.2	23.4	22.1	13	13.8	9.5	13.2	13.2	29.1	24.3	11.8	8.4	
F8	26.6	20.8	20.7	13.2	12.1	6.6	23.6	18.3	22.2	13.6	10.7	11.6	
T4	22	18.8	19.8	12.3	14.5	12.5	25.9	18.5	23.5	12.6	14.8	4.6	
T6	18.9	22.6	21.7	11.6	19.4	5.9	12.9	17.1	24.5	20.6	21	4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	20.7	23	25.9	14.7	10.2	5.7	39.8	20.8	17.5	10.9	7.6	3.5	
T3	21.2	20.9	23.7	16.5	13.1	4.4	34.4	23.9	22.3	8	7.9	3.5	
T5	17.8	16	16.8	12.7	19.3	17.5	28.8	22.2	21.5	10.6	9.9	7	
FP1	27.2	22.3	31	10	6.9	2.6	41.1	26.9	17.5	7	4.6	2.8	
F3	18.1	23.3	32.8	12.9	9.2	3.7	33.7	25	21.8	10.3	6.4	2.7	
C3	23.2	21.4	27.7	14.2	9.8	3.7	27.1	22.6	29.2	10.4	7.3	3.4	
P3	25.3	18.6	25.6	13.3	11.9	5.3	28.5	21.9	24.7	11.3	9.2	4.4	
O1	12.7	13.5	15.6	18.3	15.9	24	16.5	17.6	25.2	14.2	11.6	14.9	
FZ	19.5	23.4	34.7	12.8	6.9	2.7	30.2	27.1	23.6	10	6.6	2.5	
CZ	23.4	21.1	27.5	16.3	8.3	3.4	26.9	23.1	25.3	14.3	7.3	3.1	
PZ	26.5	19.5	23	15.6	11.2	4.2	30.3	21.9	22.8	12.6	6.7	3.8	
FP2	27.9	22.2	30.7	10.1	6.5	2.5	40.5	27.5	17.2	6.7	4.8	3.3	
F4	20.9	24.3	31.1	12.2	8	3.5	28.7	25.6	23.2	10.1	8	4.4	
C4	24.3	21.6	28.9	12.6	9.2	3.4	26.2	22	24	15.7	8.5	3.5	
P4	24.7	20.4	26.1	12.8	12.1	3.9	27.7	22	22.8	12.9	11.1	3.5	
O2	17.1	18.5	19.3	15.6	14.3	15.1	19	21.6	26.8	13.2	10.4	9.1	
F8	25.3	21.9	22.5	14.2	9.8	6.3	33	25.4	17.5	9.3	8.4	6.4	
T4	22.9	21.1	23.1	14.3	13.3	5.3	32.4	21.5	20.2	10.7	9.7	5.4	
T6	23.4	20.2	24.9	13.2	13.1	5.3	24.7	24.5	21.4	12.3	12.7	4.4	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.2	23.1	18.2	12	12.2	6.3	20.5	17.3	19	17.1	14.6	11.5	
T3	22.6	24.7	22.1	14.6	12.1	3.8	22.8	21	21.3	16.2	13.6	5.2	
T5	16.2	16.6	19.3	12.9	22.3	12.6	13.7	12.3	12.8	10.2	21.3	29.8	
FP1	26.4	21.8	17.9	12.3	10.8	10.8	17.6	15.9	19.5	14.6	15.7	16.7	
F3	22.7	25.7	22.6	12.7	11.9	4.3	19.2	15.9	24	15.4	15.4	10.1	
C3	20.1	25.2	27	14.6	10.4	2.8	22.9	20.7	25.6	16.7	10	4.1	
P3	19.2	21.5	25.3	17.3	13.8	2.8	22.9	18.4	21.9	16.2	14.2	6.4	
O1	16.1	20.8	22.3	21.4	15.1	4.3	11.7	10.1	15	15.4	19.6	28.2	
FZ	22.4	26.8	24	13.5	10	3.4	20.2	18.1	29.9	17.2	10.4	4.2	
CZ	22.4	26	22.5	16.2	10.2	2.7	22.7	20.1	25.7	18.5	9.5	3.6	
PZ	20.6	19.7	19.6	23.6	13.7	2.7	21.6	16.7	23.9	21.7	11.3	4.8	
FP2	25.8	22.1	17.5	12	10.4	12.1	17.1	16.6	20.2	14.1	15.1	17	
F4	23.1	26.1	19	12.9	11.6	7.3	18	19.2	25.2	13.5	14.3	9.9	
C4	24.7	24.1	19	17.7	11.4	3.1	25	20.3	26.1	14.3	10.6	3.7	
P4	23.4	19.2	21.2	19	14	3.2	23.7	17.7	25.3	16.2	12.7	4.5	
O2	17.5	18.9	22.7	15.1	16	9.9	12.2	9.2	13.9	12.7	21.6	30.5	
F8	24.4	21.9	15.4	11.7	13.6	13	18.1	20.4	21.9	12.8	13.7	13.2	
T4	28.3	20.6	16.5	14.4	13.6	6.7	26.3	17.9	19.7	12.6	14.7	6.9	
T6	21.9	15.2	24.4	15.4	18.3	4.9	24.1	17.7	20.7	11.8	15.3	10.4	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	20.4	19.8	19.4	8.6	17.8	14	23.6	17.2	19.5	9.5	14.4	15.8	
T3	27.5	23.7	21.9	10	11.5	5.4	25.9	24.8	22.1	9	10.2	8	
T5	29.7	22.7	19.1	11.8	11.6	5.1	26.9	22.4	19.5	9.7	10.7	10.8	
FP1	24.8	20.9	22.3	9.3	14.1	8.6	27.5	20.1	20.4	9.2	12.4	10.5	
F3	22.6	20.7	27.6	9.7	13.4	6	23.4	21.3	27.1	10.2	11	7	
C3	26.2	23.4	25.4	11.3	10.3	3.4	28.1	22.3	26.4	9.8	9.2	4.1	
P3	33	22.6	21.4	10	9.3	3.6	27.4	21.9	22.8	10.9	10.1	7	
O1	27	21.6	18.1	12.7	11.9	8.7	16	12.6	13	13.1	15.8	29.5	
FZ	20.1	22.4	32.2	10.3	10.6	4.3	23.6	22.6	28.9	10.3	9.9	4.6	
CZ	27.2	23.6	27	11.8	7.3	3.1	27.8	22.9	27.5	10.6	7.4	3.8	
PZ	31	22.7	23.2	11	9	3.2	29.1	22.3	23.6	10.1	9.7	5.3	
FP2	24.8	21.2	20.2	8.4	13.7	11.6	29.6	19.5	17.7	8	13	12.2	
F4	23.9	21.4	25	9.2	13	7.6	27.9	19.1	21.8	9.4	12.1	9.7	
C4	25	23.4	25.7	10.1	11.6	4.1	28.1	21.3	25.3	9.7	10.5	5	
P4	28.7	24.7	22.9	10.3	9.9	3.5	29.7	21.1	22.7	9.9	10.5	6.1	
O2	27.3	23.9	19.8	12.5	11.2	5.3	21.3	17.1	15.5	12.9	14.2	19	
F8	23.9	21.4	24.8	9.1	13	7.7	28.2	19.1	21.5	9.3	12	9.9	
T4	21.7	25.4	20.3	11	13.8	7.9	29.3	22.4	17.9	10.1	12	8.3	
T6	20.9	23.5	24.2	10.7	11.9	8.8	26.7	20.2	21.6	10.3	11.5	9.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.2	17.7	21	10.1	11.2	12.8	32.8	24.8	15.4	6.2	10	10.8	
T3	25	21.6	20	11.9	11.6	9.9	33.4	20.2	21.3	7.1	10	7.9	
T5	26.4	20.9	16	12	11.2	13.6	29	23	20.7	9.7	9.7	7.8	
FP1	29.9	20.5	23.8	9.1	10.5	6.3	38.9	26	17.4	6.3	7.6	3.8	
F3	22	19.2	28.8	13.3	10.4	6.3	28.9	26.8	22.4	7.9	8.9	5.2	
C3	22.6	23	26.3	14.9	8.3	4.9	28.5	24.6	24.7	9.8	8.2	4.3	
P3	27.5	22.1	20.8	12.3	9.9	7.5	29.6	24.9	23.1	8.4	8.1	5.8	
O1	16.4	14.8	10.7	12.7	14.5	31	19.5	18.3	19.1	12.1	13.8	17.2	
FZ	19.1	19.5	31.8	15.7	9.2	4.7	26.4	26.4	24.1	9.5	7.8	5.9	
CZ	25.1	21.2	24.8	16.9	7.8	4.2	25.8	27	26.6	10.3	6.3	4	
PZ	29.5	21.6	21.3	13	8.6	6	28.5	25.2	25.5	8.4	7.6	4.8	
FP2	29.3	20.4	22.2	8.6	10.8	8.6	36.9	26.9	15.9	5.9	8	6.4	
F4	21.4	19.5	27.5	12.9	10.2	8.5	27.4	26.8	18.4	7.9	10.4	9.1	
C4	21.6	22.7	24.4	15.6	9.9	5.8	23.2	25.6	26.7	9.7	8.6	6.2	
P4	25.6	22.9	19.5	13.9	10	8.1	30.7	24.8	23.4	8.6	6.7	5.9	
O2	19.6	17.6	13.6	12.4	13	23.9	24.2	20.6	22.3	11.1	11	10.8	
F8	21.4	19.6	27.3	12.8	10.1	8.8	27.9	26.6	18	7.8	10.3	9.3	
T4	21	22.8	20.2	10.8	13	12.3	29	22.7	16.8	7.9	11.5	12.2	
T6	21	23	19	11.3	11.8	13.9	31.1	24.7	20.9	7.8	8	7.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32	18	17.3	8.4	16.2	8.1	28.1	19.9	16.7	8.6	14.8	11.8	
T3	34.7	20.3	20.7	9	10.7	4.5	31.4	24.6	17.3	7.8	11	7.9	
T5	30	18	21.1	13.5	11.9	5.5	26.8	21.6	16.8	9.6	10.9	14.3	
FP1	34	20.4	20.7	8.2	11.6	5.1	31	24.7	18.9	8.7	10.2	6.3	
F3	30.4	22	21.5	9.2	12.5	4.4	25.3	25.2	24.2	10.1	10	5.3	
C3	34.3	21	21.3	9.5	11.1	2.7	25.7	27.8	22.8	10.4	8.4	5	
P3	32.5	17.7	21.2	14.1	10.4	4.1	25.4	25	21.3	9.9	9.7	8.7	
O1	28.2	14.7	15.4	17.3	12.3	12.1	13.8	11.8	12.2	12.1	16.7	33.3	
FZ	26.6	23.2	25.2	9.8	11.8	3.3	24.3	26.6	26.2	10.5	8	4.4	
CZ	31.2	22.9	22.3	11.4	9.4	2.9	28.6	26.6	22.6	10.6	7.3	4.3	
PZ	30.6	17.9	21.1	15	11.9	3.5	28.8	25.2	20.4	9.4	9	7.1	
FP2	31.6	20.3	19.7	8.9	13.1	6.4	30	24.1	18.5	8.8	10.3	8.3	
F4	29.4	21.1	20.4	9.5	13.9	5.6	27.8	24.9	20.5	9.3	9.8	7.6	
C4	29.3	21.2	20.7	12.2	13.1	3.4	27.9	24.9	21.3	11.3	8.7	5.9	
P4	31	18.2	20.9	15.5	10.8	3.7	27.8	24.8	18.2	10.5	9.4	9.3	
O2	29.8	15.3	15.9	18.7	11.9	8.5	17.3	15.8	13.1	11.6	14.6	27.6	
F8	29.8	20.9	20.3	9.5	14	5.7	28	24.7	20.5	9.2	9.9	7.7	
T4	28.2	19	19.3	14.3	13.3	6	30.8	18.9	16.9	10.2	13	10.3	
T6	29.4	15.8	20	16.2	12	6.5	28	20.1	17.1	10.1	12	14.7	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.8	22.4	28	10.8	8.4	4.7	38.7	21.5	23	7.4	5.7	3.7	
T3	17.9	18.3	23	11.6	13.3	15.9	17.1	14.1	15.1	8	21.6	24.1	
T5	21.3	18.1	22.8	12.2	13.8	11.8	17.3	19.5	28.4	10.3	13.7	10.7	
FP1	27.5	18.8	23.5	10.6	11	8.6	26.7	20.5	23.9	7.8	11.7	9.5	
F3	20	22.2	30.1	11.4	10.8	5.5	32.9	21.5	25.4	8	7.4	4.8	
C3	17.3	21.2	37	14.8	6.8	3	27.2	21.9	33.5	9.6	5.5	2.3	
P3	27.6	18.1	26.5	16	7.9	3.8	20.9	21.4	37.6	9.3	6.9	3.9	
O1	26.4	18.3	21.4	15.3	10.1	8.4	17.3	22.8	27.2	17	7.9	7.8	
FZ	21.9	22.6	32.8	10.5	8.9	3.3	22.5	24.3	31.3	9.6	9.3	3	
CZ	23.4	20	40.7	9.7	4.1	2	23.3	23.4	38.4	8.9	4.3	1.7	
PZ	32.7	14.6	29.4	17.8	4.1	1.5	24.8	21.1	37.3	10.7	4.5	1.6	
FP2	27	20.4	22.5	10.2	10.4	9.5	24.8	17.9	25.9	9.5	11.8	10.1	
F4	23.4	20.3	30.2	10.7	10.3	5.2	20.7	22.2	29.5	9.3	12.2	6.1	
C4	25.7	18.6	33.5	12.9	6.3	3.1	27.3	21.9	31.8	11.2	5.5	2.3	
P4	34.8	14.7	29.3	14	5.3	2	26.7	21.8	33.2	11.1	5.1	2.2	
O2	31.1	17.1	24.6	16.6	7.2	3.3	20.7	24.6	27.6	15.6	6.6	4.8	
F8	31.5	18.1	23.9	10	9.6	7	30.5	20.4	24.5	9.6	9.1	5.9	
T4	13.7	13.2	18.8	9.5	22.2	22.6	14.9	12.9	15.5	9.2	15.1	32.4	
T6	26.5	19.8	29.2	9.9	8.3	6.4	20.4	20.9	29.4	9.6	10.9	8.8	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	37.2	22.4	19.2	8.2	8	5	42	28.2	16.5	6.6	3.9	2.7	
T3	12.7	9.3	6.8	4.5	29.8	36.9	27.2	17.7	10	6.9	20.7	17.5	
T5	16.2	12.3	14.5	15.4	19.6	22	28.7	18.9	14.4	11.4	14	12.7	
FP1	27	23	16.6	7.7	14.6	11.1	42.2	26.3	16.8	7.6	3.9	3.1	
F3	29.8	20.9	20.7	8.7	12.4	7.6	36.5	28.6	19.7	7	5.3	3	
C3	22.9	26.1	28	11.3	7.3	4.5	31.6	27.9	25	9.1	4	2.4	
P3	26.2	21.2	26	8.4	9.6	6.6	31.2	25.6	26.4	7.4	5.6	3.9	
O1	18.4	15.4	13.2	17.1	17.1	18.8	26.1	22	16.1	11.9	10.4	13.4	
FZ	25.7	24.1	27.4	10.1	9.4	3.3	32.4	29.5	24.1	7.1	4.7	2.2	
CZ	20.4	24.5	38.9	9.3	4.4	2.6	31.3	28.4	26.3	8.5	3.4	2.1	
PZ	26.3	23.4	29.1	10.9	5.3	2.9	34.8	25.5	25.7	7.8	4.5	1.7	
FP2	26.4	26.1	18.3	8	11.3	9.8	39	29.6	17.6	7.5	3.5	2.9	
F4	21.6	21.6	25.7	8.9	14.8	7.4	28.8	26.6	24	8.2	7.8	4.6	
C4	18.3	22	36.3	13.4	6.2	3.7	28.3	25.5	28.5	10.6	4.6	2.6	
P4	24.9	22.7	30.8	11.2	6.4	3.9	31.7	28.2	25.1	7.7	5.1	2.2	
O2	22.4	17.8	17.4	14.9	14.1	13.4	30.2	28.5	18.7	9.1	7	6.5	
F8	25.2	26.9	19.3	10.9	9.4	8.3	39	29.8	17.1	5.7	4.8	3.5	
T4	12.2	10.1	11.4	9.6	25.2	31.5	21.4	16.6	12.3	5.7	21.8	22.3	
T6	21.5	17	18.5	11	17.7	14.3	26.2	22	20.8	10.4	12.3	8.4	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.2	23.3	20.9	12	8.7	4.9	39	24	19.6	6.8	6	4.7	
T3	13.5	10.7	11.6	6.8	27.2	30.2	10.5	8.1	11.4	6	25.8	36.3	
T5	19.8	16.6	26.6	23	8.8	5.1	10.1	11	16.9	11.3	25.8	24.9	
FP1	25.9	19.2	15.9	9.5	15.1	14.4	35.8	25.1	17.8	6.3	8.2	6.7	
F3	26.1	20.8	22.2	11.2	11.9	7.8	31.8	23.5	23.7	7.4	7.9	5.7	
C3	20.5	23.1	31.6	16.3	6.3	2.3	23.6	17.6	36.4	11.7	6.9	3.8	
P3	23.8	15.1	26.2	24.4	6.9	3.7	22.3	16.5	36.8	9.5	9.6	5.3	
O1	24.1	16.2	20.2	30.9	6.3	2.4	18.5	14.4	17.2	15.8	15.8	18.3	
FZ	23.1	25.4	27.9	11.9	8.2	3.4	23.9	26.3	32.2	8.2	5.8	3.6	
CZ	21	22.3	35.2	15.1	4.7	1.6	20.4	25.8	34.3	10.8	5.8	2.8	
PZ	25.9	14.7	23.4	31.3	3.7	1	31	20.8	32	8.1	5.8	2.3	
FP2	25.3	17.6	14.4	9.1	16.3	17.3	35.8	22.5	20.4	7.3	7.9	6	
F4	20	20.4	24	11.6	13.9	10.1	18.5	24.6	30.8	7.9	10.2	7.9	
C4	24.4	20.9	29.9	16.3	6.3	2.3	22.2	33.2	26	9.9	5.7	3	
P4	24.3	15.1	22.8	32.1	4.6	1.2	28.1	23.8	28.9	9.2	6.9	3.2	
O2	25.4	17.2	20	29.7	5.7	2	24.9	15.7	16.8	12.8	14.2	15.6	
F8	28.8	21.1	19.3	13.4	8.6	8.9	35.5	19.9	19.3	9.4	8.1	7.8	
T4	15.2	12.9	11.9	7.3	19.5	33.2	14.1	15.6	13.2	5.9	17.6	33.6	
T6	26	15.5	26.6	20.2	7.2	4.5	20.3	21.8	24.4	7.9	13.1	12.4	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	37.2	17.7	18.6	14.6	6.6	5.3	39.3	20.5	20.1	10.1	5	5.1	
T3	20.3	19.1	23.8	17.5	9.1	10.2	24.7	20.6	28.3	15	7	4.4	
T5	17.5	17.1	28.7	25.7	7.7	3.3	25	18.7	28.7	17.1	6.9	3.5	
FP1	32.3	19	21.9	16	7.5	3.3	32.5	22.4	23.5	12.6	5.7	3.2	
F3	26.1	16.4	27.6	18.7	7.8	3.3	25.2	21.3	26.6	17	6.4	3.5	
C3	20.8	16.3	24.9	30.4	5.7	1.9	23.3	17.4	24.9	27.4	4.4	2.5	
P3	22.9	13.6	22.2	35.8	4.4	1.1	23.1	17.3	30.1	22.7	4.7	2.1	
O1	16.8	12.7	19.6	44.7	4.6	1.7	14	15.7	36.4	18.8	7.4	7.7	
FZ	27.1	16.4	28.5	18.9	7	2.1	26.5	22.8	26.8	15.6	6	2.2	
CZ	16.7	19.7	27.6	29.8	4.9	1.3	26.5	20.9	25.1	22.6	3.6	1.3	
PZ	19.6	13.8	21.6	40	4.1	1	20.9	17.9	31	24.2	4.4	1.6	
FP2	32.9	18.8	22.2	14.6	8.2	3.2	32.5	21.3	24.5	13	5.6	3.1	
F4	31	15.3	24.1	19.6	6.8	3.3	28.7	22.7	23.7	15.1	6.8	3	
C4	19.5	13.9	23.7	35.8	5.4	1.7	24.2	20.7	25.8	22	5.3	2	
P4	16.8	14.3	16.7	47.2	3.9	1.1	19.2	18.8	34.9	20.2	5.1	1.9	
O2	13.6	15.4	20.1	44.2	4.9	1.7	13.3	18.1	42.1	15.8	6.1	4.6	
F8	32.8	17.6	21.6	16.8	6.6	4.6	39.3	19.9	18.7	11.4	5.5	5.2	
T4	19.7	17.5	25.9	19.7	10.3	6.9	23.1	19	28.9	16.2	8	4.7	
T6	12.3	15.3	21.6	44.1	4.8	1.8	17.8	18.6	42.1	14.3	4.8	2.3	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.9	22.6	20.1	11.3	6.7	5.4	41	19.7	17.4	10	5.5	6.4	
T3	22.6	15.6	28.1	18.3	8.4	7	29.4	18.8	26.4	13.4	7	5	
T5	22.1	19.4	29	17.5	7.9	4.1	25.2	23	26.5	13.9	7.5	3.8	
FP1	33.3	24.6	21.8	11.4	5.7	3.2	36.4	24.5	20.6	10.2	5.1	3.1	
F3	26.9	19.6	28.3	16.6	6	2.6	28.6	23.4	21.1	16.9	6.6	3.3	
C3	26	17.3	28.9	21.1	4.8	1.9	24.7	18.1	20.2	30.3	4.6	2	
P3	23.9	18.4	26.4	24.4	4.8	2	28.9	19.6	25.1	20.8	3.9	1.7	
O1	23.3	21.9	19.5	21.9	7.8	5.8	29.7	23.5	19.6	18.9	5.1	3.3	
FZ	24.7	22.7	29.4	15.9	5.5	1.7	29.4	23.5	22.5	16.7	5.7	2.3	
CZ	22.7	17.4	26.3	28.7	3.8	1.2	26.4	18.6	22.1	26.8	4.5	1.5	
PZ	24.3	17.3	25.5	27.2	4.3	1.4	30.6	21.2	19.9	23.4	3.6	1.3	
FP2	32.9	25.8	21.2	10.3	6.2	3.6	36.6	25.2	20.5	10.3	4.9	2.6	
F4	25.4	21.4	26.5	17.5	5.9	3.3	29.5	24.8	21	14.4	6.9	3.5	
C4	22.2	18.9	27.3	25.1	4.5	2	22.5	18.7	20.5	31.1	5.1	2.2	
P4	27.2	18.9	20.3	26.3	5.3	2	29.4	24.3	19.5	20.9	4.2	1.6	
O2	17.1	14.5	15.9	22.4	11.5	18.5	28.6	20.4	19.3	20.4	6.6	4.7	
F8	28.8	23.3	23.1	12.5	6.8	5.5	43.1	17.9	18.9	9.2	5.7	5.1	
T4	27	17.3	25.6	15.7	8.6	5.8	23.1	22	25.5	15.9	8.9	4.6	
T6	21.7	17.6	22.8	19.6	10.6	7.6	31.4	23.3	18.5	19.1	5.2	2.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	36	21.1	18	11.2	8.4	5.3	38.5	20.6	19.3	9.2	7.2	5.3	
T3	22.1	23.2	25.9	14.7	8	6.1	31	17.5	27.4	13.8	5.3	4.9	
T5	21.1	20.8	26.3	19.9	7.7	4.3	28.8	22.3	28.1	10.9	5.7	4.3	
FP1	34.5	19.9	21.1	11.5	8.4	4.6	33	20.8	22	12.2	8.2	3.8	
F3	26.4	19.1	27	16.1	8	3.4	29	18.9	26.1	16.1	6.7	3.2	
C3	19.9	19.3	22.3	31.6	4.9	1.9	28.1	19.1	28.8	16.9	4.9	2.1	
P3	21.2	18.6	26.1	26.5	5.7	1.9	23.8	23.7	31.6	13.5	5.1	2.5	
O1	22.1	18.1	24.4	26	7	2.5	18.1	22.1	29.1	13	8.1	9.6	
FZ	28.3	19.5	27.7	14.8	7.2	2.5	27	17.8	29.5	16.4	6.6	2.7	
CZ	20.8	17.9	25.5	29.8	4.5	1.5	26.3	17.1	26.8	24.6	3.5	1.6	
PZ	19.9	17.6	26.2	30.2	4.4	1.6	22	20.1	32	19	5	1.9	
FP2	33.4	21.5	21.6	10	8.3	5.2	35.2	19.2	21.9	11.5	8.4	3.7	
F4	29.3	21.6	24.5	11.9	8.4	4.3	29.6	21.4	24.9	13.9	7	3.2	
C4	20.3	17.7	22.9	31.2	5.9	1.9	26.8	22.8	26.9	16.1	5.5	1.8	
P4	27	15.6	25	25.3	5.2	1.9	25.2	19.4	31.5	16	5.7	2.2	
O2	23.1	19.5	25.4	22.3	7	2.6	16.7	19.6	25.7	12.5	9.2	16.3	
F8	27.1	24.3	19.1	11.9	9.4	8.2	35.4	22.9	19	10.3	6.6	5.8	
T4	23.5	17.1	21.3	18.4	12.4	7.4	29.9	22.4	21.7	11.3	8	6.7	
T6	21.8	19.3	29.8	19.3	7.3	2.5	24.5	21.7	27.5	12.3	8.4	5.6	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	34.4	21.1	16.9	11.7	7.5	8.3	32.2	18.3	28.4	9.2	6.4	5.6	
T3	24.5	14.8	15.2	12.1	14.9	18.5	33.6	16.8	19.2	6.5	11	13	
T5	21.4	16.5	12	18.9	14.6	16.6	32.2	16.4	14.5	10.5	13.2	13.3	
FP1	27.8	23	19.9	14.5	9	5.8	29.5	16.3	37.4	7.5	6	3.3	
F3	29.7	26.4	21.2	13.2	6.7	2.7	25.7	22.9	35	7.9	5.2	3.4	
C3	24.7	23	21.8	20.6	6.9	3	30.2	23.9	27.7	9.1	5.6	3.5	
P3	23.5	23.3	17	24.1	9.2	3	38.1	21.8	19.9	9.6	6.8	3.8	
O1	27.5	24.6	15.7	21.3	7	3.9	31.7	17.4	21.2	11.4	7.9	10.4	
FZ	25.8	27.7	25.1	12.5	6.6	2.2	23	23.4	37	8.2	5.9	2.6	
CZ	24.7	29.2	19.9	16.2	7.3	2.8	30.5	23	27.9	10.3	5.6	2.8	
PZ	29.7	24.2	14.1	21.6	7.7	2.5	40.1	20.8	19.1	11.2	6	2.7	
FP2	31	24.2	17.9	12.1	10	4.8	32.6	13.7	37.5	6.9	6	3.4	
F4	30.5	26.2	21.3	11.3	7.6	3	28.2	21.1	36.4	7	4.9	2.5	
C4	22.2	24	15.7	26.9	7.8	3.4	40.6	18	24.6	8.4	5.3	3	
P4	32.6	22.8	14.2	19.6	7.9	2.9	41.7	18.7	17.5	12.1	6.8	3.2	
O2	23.9	19.9	15	24	8.7	8.6	27.5	16.7	22.3	13.3	10	10.1	
F8	27.9	19.6	14.6	12	12.6	13.5	32	14.6	27.1	10	8.9	7.4	
T4	24.1	22.6	13.3	13.5	13	13.4	37.2	18.4	16.9	9	10.3	8.2	
T6	34.7	17.7	11.9	18.3	8.6	8.9	35.6	18.8	16.6	13.2	8.9	6.9	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	20.2	14.9	36.8	15.6	6.3	6.2	40.3	16.1	15.2	6.9	8.3	13.2	
T3	22.4	16.6	24.4	16	10.6	10	34.7	19.9	13	7.6	10.3	14.5	
T5	16.9	12.6	16.8	14.5	16.2	23	28.2	19.6	13.3	9.3	12.5	17.1	
FP1	19.1	14.6	51.4	8.4	4.3	2.3	48.9	17.3	17	8.8	5.1	2.8	
F3	25.3	21.7	35	10.8	4.5	2.8	46.8	18.4	18.3	10	4	2.4	
C3	25.6	26	25.3	13.5	5.7	3.9	38.7	24.6	17.7	13.2	3.6	2.2	
P3	21.4	23.9	25.8	14.8	6.7	7.4	40.5	26.3	16.2	9.7	4.1	3.3	
O1	15.4	13.4	17.4	13.4	15.9	24.5	28.4	22.4	17	10.6	10.1	11.5	
FZ	20.3	21.2	37	13.2	5.8	2.6	40.5	20.3	24	9.7	3.8	1.9	
CZ	22.9	26.4	27.5	15	4.6	3.7	34.7	26.2	22.7	10.6	3.7	2.2	
PZ	18.7	26.2	27.3	14.4	6.1	5.2	44.5	24.6	15.5	9.3	3.2	2.7	
FP2	20.2	11.4	52.5	8.6	4.8	2.4	50.2	16	14.5	5.9	4.9	8.6	
F4	20.6	19.1	37.7	14.5	5.3	2.7	47	18.4	19.6	9.3	2.9	2.8	
C4	19	17.6	28.8	25.6	4.6	4.5	41.8	23.8	16.3	12.3	3.4	2.3	
P4	17.5	25.1	27.1	17.3	7	6	46.5	20.8	16.5	9.6	3.7	3	
O2	11.5	16.1	21	16.1	14	21.3	33.3	21.5	18.8	11.7	7.5	7.3	
F8	21.4	15.7	35	18.4	5.5	3.9	42	16.9	13.3	5.6	8.5	13.7	
T4	26.3	16.8	20.6	16.7	9.8	7.8	46.4	18.4	11.3	5.8	7.2	10.8	
T6	17.7	16.6	23.2	17.4	10.8	14.3	40.8	19.4	15.3	9.2	7	8.4	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	24.2	15.5	20.6	10.2	10.2	19.3	30.2	18.5	20.9	13.5	7.5	9.3	
T3	25.3	22.4	17.1	12.2	10.9	12.1	26	17.1	21.2	16.7	9.7	9.4	
T5	24.5	21.2	13	14.6	11.5	14.9	17.4	17.1	12.1	12.6	16.9	24	
FP1	22.4	13.7	25.5	11.7	13.7	12.9	23.4	23.2	33.6	10.4	5.9	3.6	
F3	28.2	23.3	27.5	11.4	6.1	3.5	21.6	28.1	26.8	12.4	7.1	3.9	
C3	27.1	25.8	22.8	16.3	5.3	2.7	26.3	25.1	26.2	11.2	6.8	4.4	
P3	24.5	27.9	18.4	18.5	7	3.6	26.9	27.2	20.6	10.7	7.8	6.9	
O1	29.3	26.5	16	17.7	6.9	3.6	17	20.3	12	11.4	15.3	24.1	
FZ	28.8	24.7	27.6	11.1	5.4	2.5	16.5	28.2	33.6	12.1	6.8	2.7	
CZ	30	24.7	23.4	14	5.5	2.5	27.5	26.3	26.8	11.7	4.7	3.1	
PZ	29.4	25.2	16.8	20.5	5.6	2.6	28.6	30.5	20.1	10.7	6.1	4	
FP2	24.6	16.4	20.5	7.9	12.5	18	23.6	23.1	34.5	9.7	5.9	3.3	
F4	28.2	25.9	24	10.4	6.6	5	25.1	29	27.6	10.1	5.5	2.7	
C4	27.3	22	18.4	23.1	6.4	2.9	22.3	24.8	24.9	19.4	5.2	3.4	
P4	29.9	23.6	16.4	22.3	5.3	2.6	28.6	25.1	23	12.3	6.5	4.5	
O2	22.4	25.2	19	22.8	6.9	3.7	15.9	19.8	12.6	13.9	17.2	20.6	
F8	20.8	16.5	11.3	7.3	16.4	27.7	28.5	24.6	23.4	12	6.5	4.9	
T4	28	22.5	16.2	13.5	9.7	10.2	24.4	25.5	18.1	13.8	10.2	7.9	
T6	24	23.2	17.9	21.6	7.4	5.9	23.3	20.2	16.4	15.9	10.9	13.4	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	17.5	26.3	19.9	10.1	10.2	16	21.8	23.7	29.8	10.3	8	6.4	
T3	20.2	28.7	24	8.8	7.9	10.3	25.2	20.4	32.4	9.5	5.6	7	
T5	22.1	28.1	29.3	8.7	6.7	5.1	26	21.6	27.7	12.1	6.5	6	
FP1	21.8	22.2	16.9	11.9	12.4	14.7	29.6	23.1	22.2	9.9	7.9	7.3	
F3	23.2	32.4	23.3	10.2	6.9	4	21.7	27	31.4	11.1	5.3	3.5	
C3	24.9	25.2	34.7	9.6	3.5	2	22.6	25.3	34.2	11.4	4.1	2.4	
P3	24.5	25.8	32.5	8.7	5.7	2.8	24.7	26.6	32	10.3	4.2	2.2	
O1	26.4	24.9	23.4	14.1	8.6	2.6	24.4	24.1	27.4	12.4	8	3.6	
FZ	22.3	32.6	26.5	11.4	4.8	2.4	27.6	25.3	27.3	10.9	6	2.8	
CZ	22	26.7	38.1	8.4	3.2	1.6	18.9	29	35.4	9.3	4.5	2.8	
PZ	25.4	25.5	32.3	9.8	5	1.9	19.5	28.7	33.9	11.1	4.6	2.3	
FP2	24.4	22.8	19.3	13.2	10.3	10	30.2	20.9	21.9	10.8	9.3	6.9	
F4	22.8	25.5	26.7	11.8	6.8	6.5	26.7	22.1	23.5	13.8	8.3	5.6	
C4	28.8	23.1	31.8	10.1	4	2.1	17.2	29.1	31.8	12.1	6.2	3.6	
P4	29.8	23.5	29.1	9.9	5.7	2	21.9	30	28.4	11.8	5.1	2.8	
O2	26.4	24.4	21.7	17.4	7.6	2.4	21.3	23.8	26.3	14.6	10.3	3.7	
F8	26.3	24.3	20.3	10.6	9.1	9.5	25.1	21.8	19.8	11.6	10.3	11.5	
T4	29	25.5	22.5	10.2	7.2	5.7	23.1	25.4	21.5	11.9	9	9.2	
T6	28	25.3	25.8	9.5	7.3	4	24.3	24.4	25.7	12.6	7	6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.4	15.7	31.3	13.1	7.5	7	34.6	22.8	16.8	10.6	7.7	8	
T3	18	20.4	30.9	12.9	9.3	8.5	25	22.9	19.5	9.8	10.8	12	
T5	17.7	19.2	31.7	11.2	11	9.2	29.5	25	24.8	9.4	5.7	5.6	
FP1	30.4	17.1	26.9	12.1	7.1	6.4	41.7	18	20.7	9.8	5.9	4	
F3	22.7	18.3	34.7	15.5	4.9	3.8	31	21.4	23.9	14.2	5.7	3.8	
C3	17.7	17.5	39.7	17.1	4.4	3.5	25.7	20.2	32.3	13.6	5.1	3.1	
P3	23	18.7	32.3	14.4	6.8	4.8	29.4	24.6	26.7	9.9	5.5	3.9	
O1	25.1	20.8	20.7	12.1	11.2	10	31.7	23.8	21	11.3	6.5	6	
FZ	21.2	21.1	35.8	14.1	4.4	3.4	35.5	21.8	23.4	11.7	4.5	3	
CZ	20.5	18.5	42.9	11.4	3.7	3	25.8	22.7	35.5	9.1	4	2.9	
PZ	23.6	21.7	32.2	13	5.4	4.1	29.9	24	26.4	9.8	6.1	3.7	
FP2	28.3	21.3	27.2	12.2	5.6	5.4	46.1	16.8	18.2	9.9	5.4	3.7	
F4	21.3	24.3	31.3	12.3	5.8	5	36.1	21.4	21	11	5.9	4.6	
C4	20.8	20.8	36.7	13.2	4.5	4	27.2	24.8	30.6	9.3	4.9	3.3	
P4	23.2	22.2	28.8	14.4	6.2	5.2	24.1	28.6	25.6	11.1	6.5	4.1	
O2	23.7	22.5	20.5	12.9	10.5	10	27.4	23.9	22.5	13.2	7	6	
F8	20.9	23.9	28.4	12.2	8.8	5.8	33.1	22.9	20.8	9.3	7.7	6.3	
T4	22.1	22.8	30	10.3	7.3	7.5	25.8	29.5	26.1	6.1	5.9	6.7	
T6	20.4	20	26.3	12.8	8.6	11.9	19.6	31.8	24.4	11.2	6.5	6.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25	19.6	19.2	8.5	11.1	16.5	32.8	23.2	18	10.2	8	7.8	
T3	19.9	22.1	23.5	7	7.4	20	35.2	24.7	17.4	9.7	6.1	6.9	
T5	23.3	26	29.5	10.2	5.8	5.2	26	18.1	30.1	12.5	6.6	6.6	
FP1	29.1	16	16.7	8.3	15.3	14.7	27.7	25.9	21.2	12.1	7.1	6	
F3	25.4	24	28	11.1	6.2	5.3	24.3	24.3	27.1	13.3	6.5	4.4	
C3	24.9	26.4	33.4	9.3	3.7	2.4	29.8	22.1	26.8	12.4	5.4	3.5	
P3	26.3	29.1	28.3	9.1	4.7	2.5	33.5	19.5	26.2	10.7	6.1	4	
O1	28.7	28.3	22.2	11.5	6.6	2.8	26.1	21.9	25.6	10.9	8	7.5	
FZ	25.8	26.3	30	10.7	4.3	2.9	22.4	26.6	29.9	12.5	5.1	3.5	
CZ	23.5	28.2	35.2	8.5	2.7	2	25.1	22.6	34.4	9.5	5.3	3	
PZ	27.9	28.4	28.5	8.9	4.2	2.1	28.5	22.3	30.2	9.5	5.9	3.7	
FP2	28	15.7	17.8	8.5	17.4	12.6	25.2	24.5	23.7	14.2	6.9	5.5	
F4	27.3	24.7	24.3	10.3	7.1	6.2	23.2	27	27.1	12.8	5.3	4.6	
C4	25.3	28.3	30	10.2	3.9	2.3	28.1	22.4	29.4	11	4.9	4.2	
P4	28.7	27.9	25.5	10.2	5.3	2.5	28.1	21.8	29.5	9.3	6.6	4.7	
O2	27.4	27.2	21.6	13.4	7.3	3.1	23.4	26.5	23.8	9.8	8.4	8.1	
F8	31	21	17.6	9.4	10.5	10.5	31.1	21.6	22.9	10.7	7.8	5.9	
T4	26.5	25.2	22.3	9.7	6.9	9.4	29.9	25.4	21.9	8.5	6.6	7.7	
T6	28.1	24.5	25	11.4	6.4	4.5	27.2	23.1	23.2	8.4	8.2	9.9	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.1	28.6	17.6	10.9	7.1	5.7	43	23.9	17.8	6.9	4.8	3.7	
T3	18.6	24.2	15.9	10.5	15.7	15.2	22.4	19.5	12.9	4.9	15.9	24.3	
T5	25.2	21.5	19.3	23	7.1	3.9	27.6	25.3	21.4	9.4	9	7.3	
FP1	32.5	28	20.3	8.4	6.4	4.5	40.4	28.2	13.5	8.3	6	3.6	
F3	30.4	28.2	21.3	11.1	5.6	3.4	26.9	31.7	22	10.9	5.3	3.2	
C3	29.9	25.8	22.1	14.9	4.9	2.4	22.7	34.2	21.6	13.7	4.8	3	
P3	27.3	27.1	21.1	16.6	5.2	2.7	33	27.5	20.9	10.3	5.4	3	
O1	27.4	25.3	14.2	17	7.9	8.1	27.1	22.9	20.8	11.3	8.7	9.1	
FZ	32.4	30.3	19.6	9.9	5.1	2.6	32.6	29.2	19.4	11.5	4.6	2.8	
CZ	22.7	26	27.1	18.6	3.7	1.9	27.4	30.3	22.8	12.5	4.4	2.6	
PZ	27.7	24.6	19.3	21.8	4.6	2	32.7	28	20.2	10.6	5.8	2.7	
FP2	34	30.3	16.9	8.8	5.9	4.1	48	25.2	11.7	6.3	5.5	3.2	
F4	31.3	30.1	17.8	11.5	5.7	3.5	35.9	25.1	19.9	10	5.5	3.6	
C4	24.9	28.8	22.9	15.6	5.3	2.4	29.4	25.3	22.8	13.2	6	3.4	
P4	22.6	26.4	19.6	21.6	6.8	3.1	32.1	27.6	19.4	10.6	6.5	3.8	
O2	21.3	21.5	12.8	18.7	10.2	15.4	17.6	17	16.7	13.1	12.8	22.7	
F8	29.4	28.9	18.8	11.8	5.1	6.1	51.2	22	14.8	5.1	4.1	2.8	
T4	19.7	25.9	20.7	17.3	8.6	7.8	30.4	21.3	17.7	5.9	11.6	13.1	
T6	21.8	30.5	16.4	21.5	5.7	4.1	23.6	25	24.1	10.1	8.7	8.6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	31.4	24.5	18.7	13	6.9	5.5	38.7	31.4	15.9	5.8	4.4	3.8	
T3	18.9	11.4	12.7	7.7	19	30.4	32.5	17.6	12.1	6.7	13.6	17.5	
T5	18.9	27.1	20.5	13	10.6	9.9	28.9	30.9	15.1	9.2	7.9	8	
FP1	24.4	29.8	20.9	12.9	6.9	5	41.8	34.3	12.8	5.6	3.5	2.4	
F3	24.5	29.9	23.9	11.9	6	3.9	29.2	29.1	22.6	8.9	5.8	4.3	
C3	25.1	27.6	26	12.4	5.5	3.4	31.4	25.9	23.5	10.7	4.8	3.7	
P3	22	29.5	23.7	12.5	7.5	4.8	28.3	29.9	19.4	11.3	6.1	5	
O1	14.1	19.2	15.2	14.9	13.2	23.4	20.4	17.3	14	13.5	12.5	22.3	
FZ	27.1	30.7	23.3	10.3	5.5	3.1	31.1	29.6	20.9	8.7	5.7	3.9	
CZ	22.1	30.9	27	13	4.3	2.7	39	19.4	21.5	12.7	4.2	3.3	
PZ	25.7	28.9	22.9	13.3	5.8	3.4	39.6	23.6	16	11.8	4.7	4.2	
FP2	29.2	27.3	18.7	11.9	7.4	5.5	45	34.1	11.3	4.8	2.6	2.3	
F4	27.9	30.8	21.4	9.3	6.3	4.4	29.8	29.7	19.6	9.6	5.9	5.3	
C4	25.7	30.3	23	10.7	6.3	3.9	31.3	23.6	22.2	12.9	5.2	4.8	
P4	25.9	26.5	20	13.6	7.6	6.4	31.1	23.1	16.9	15.8	7	6.2	
O2	9.1	13.4	9	12.8	15	40.7	14.6	11.9	10.4	18.9	15	29.2	
F8	30.4	28.3	18.8	9.6	6.6	6.3	47.3	24.2	14.4	6.4	3.9	3.8	
T4	23.2	22	14.3	9.3	15.3	15.9	30.9	25.6	14.9	7.3	10.3	10.9	
T6	19.4	27.2	17.4	11.2	10	14.8	22.9	22.3	18.2	13.5	11.5	11.6	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	34.5	25.3	18.2	9	7.7	5.3	32.6	28.6	17.7	10.8	6.1	4.5	
T3	21	22.3	14.2	5.6	16.3	20.6	21.5	23.4	19.2	12.4	10	13.5	
T5	30.3	28.6	18.9	11.7	6.9	3.6	27.2	23	22	10.9	9.4	7.6	
FP1	34.3	29.1	17.6	8.3	6	4.6	34.3	30.7	18.1	7.6	5.7	3.7	
F3	30.1	31.4	22.3	8.2	4.9	3.2	22.5	35.4	23.8	9.5	5.5	3.3	
C3	24.8	30.4	25.3	11.3	5.2	2.9	23.6	30.6	26.5	11.2	5.4	2.7	
P3	33.2	28.1	19	12	5.3	2.4	27.2	27.7	22.6	12	6.7	3.9	
O1	28.5	25	16.8	12.2	8.8	8.6	16.9	17.4	16.5	11.6	13.1	24.5	
FZ	27.8	31	22.3	10	5.6	3.3	25.3	30.9	24.1	9.9	6.3	3.5	
CZ	26.2	31.8	21.5	14.6	3.8	2.2	23.1	30.9	23.7	14.3	5	3.1	
PZ	32.1	26.2	16	19.7	4	2	29.7	26.2	20.2	14	6.5	3.4	
FP2	35.5	27.2	17.5	7.8	6.5	5.5	37	29.3	17.5	6.5	6.1	3.6	
F4	27.1	33.3	17.4	10.4	7.2	4.5	25.6	31.6	22.4	9.6	6.5	4.4	
C4	22.9	31.2	24	11.7	6.7	3.5	21	30.7	25.1	11.5	7.1	4.6	
P4	27.7	27.1	19.9	15.3	6.9	3.2	24.1	24	23.5	13.9	7.8	6.8	
O2	24	20.9	14.9	14.2	10.8	15.2	11.3	10.6	10.8	15.3	15.4	36.7	
F8	28.4	29.4	18.9	9.5	7.6	6.2	33.5	28.8	19.1	7	6.9	4.7	
T4	25	25.3	14.7	10.1	14.3	10.6	23.2	20.8	21	10.2	14.9	10	
T6	20.7	28.5	22.1	17.5	6.6	4.6	22.2	24.7	18.4	14.7	9.2	10.8	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	36.8	23.5	13.9	9.9	7.9	7.9	37.8	24.6	16.2	10.4	5.7	5.4	
T3	29.3	27.5	15.9	10.1	9	8	30.8	25.9	20.7	11	7	4.6	
T5	30.6	26.5	16.6	12.3	8.5	5.6	22.5	20.4	22.8	14.9	10.2	9.1	
FP1	33.7	23.9	17.8	10.5	8	6.1	29.1	26.1	17.8	15.6	7.1	4.3	
F3	30.3	25.7	17.2	13.3	7.6	5.8	31	23.9	18.5	15.7	7	4	
C3	19.1	18.9	14.1	40.2	4.6	3	22	17.7	19.4	32.8	4.6	3.4	
P3	28.9	21.5	18.1	21.2	6.7	3.7	29.3	19.7	20.1	18.3	7	5.5	
O1	27	24.9	20.3	14.7	7.8	5.3	19.3	14.7	19.6	14.7	13.9	17.7	
FZ	28.2	28.2	19	12.8	6.9	4.9	29	24.2	19.4	15.8	8	3.6	
CZ	27.5	25.9	22.3	15.1	5.7	3.4	23.7	23.7	25.6	17.3	5.6	4	
PZ	29.5	22	19.5	19.8	6	3.1	29.5	22	21.7	15.6	6.4	4.7	
FP2	30.7	26.7	17.3	10.8	8.4	6.2	32.9	24.3	17.2	14.3	7.5	3.9	
F4	24.9	29	18	11.8	8.5	7.9	28	25.5	18	13.6	10	4.9	
C4	21.9	19.5	12.2	37.8	5.3	3.3	18.6	19.2	17.3	35.4	5.5	4	
P4	28.4	22	18.6	20.6	6.5	3.9	25.9	19.9	19.8	19	7.4	7.9	
O2	27.7	21.9	20	14.9	8.4	7	15.5	11.8	12.4	14	15.3	31.1	
F8	33.1	27.4	12.7	6.9	8.6	11.3	43.9	20.1	13.4	9.3	6.8	6.5	
T4	30	28.2	14.1	10	10.8	6.8	29.8	21.8	19	14.3	8.2	6.9	
T6	26.7	21.5	17.5	15.3	8.9	10.2	20.5	17.2	17.7	13.8	11	19.9	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	38.7	22	14.1	8.6	8.3	8.4	44.3	22.4	12.8	8.8	5.8	5.9	
T3	29.6	24.4	22.4	9.4	7.7	6.4	35.2	29.3	16.2	9.7	5	4.6	
T5	22.1	20.7	15	10	14.4	17.8	36.1	26	14.6	12	6	5.4	
FP1	35	24.8	17.1	9.6	8	5.4	41.2	28.9	13.5	9.2	4.4	2.8	
F3	30.8	26.8	18.1	10.6	7.9	5.9	40.4	25.7	15.1	10.3	5	3.5	
C3	28.5	27.7	21.4	11.8	5.9	4.7	28.6	18.6	12	34.7	3.6	2.5	
P3	29.4	25.2	18.8	12.9	7.5	6.3	36.1	25.9	12.4	16.3	5.4	3.8	
O1	16.6	17.3	16.2	12.8	13.3	23.7	25.6	22.5	13.9	10.8	10.5	16.7	
FZ	28.2	28.2	19.5	11.7	7.5	4.9	34.7	27.2	17.9	11	5.8	3.4	
CZ	25.1	28.1	25.3	12.3	4.9	4.2	32.7	26	18.9	13.6	5.4	3.4	
PZ	28.2	26.1	19.4	14.3	6.5	5.4	34.5	28.6	14.7	13.7	4.9	3.5	
FP2	34.2	27.2	16.6	9.7	7.1	5	38.9	28.4	14.8	9.7	5.1	3	
F4	27.8	26.8	17.7	12.1	8.1	7.6	37.1	27.4	15.2	10.3	5.7	4.3	
C4	21.4	22.6	17.3	28.2	5.7	4.9	24.6	19.9	11.5	36.5	4.5	3	
P4	25.2	22.9	17.8	15.4	8.6	10.1	32.8	25.8	13.9	17.2	5.7	4.7	
O2	11.5	11.6	9.9	12.2	16.7	38.1	23.3	20.9	13.4	11.1	11.7	19.6	
F8	27.4	28.3	15.5	8.8	8	12.1	41	24.5	14.3	7.1	5.7	7.3	
T4	23.8	24.7	17.9	11.8	10.5	11.3	30	29.4	16.7	10.9	7.2	5.9	
T6	14.9	14	10.7	10.6	18.5	31.3	28.2	23.3	15.1	14.8	8.7	9.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	37	23.3	14.9	10.2	8.3	6.3	40.3	20.7	17.8	7.7	7.7	5.8	
T3	25.9	27.3	15.6	13.6	8.5	9.1	24.7	28.4	23.5	10	7.3	6	
T5	31.3	22.7	17	17.4	6.9	4.7	15.6	22.5	22.7	10.3	13.1	15.8	
FP1	35.8	24.6	14.9	11.6	7.7	5.4	35.5	26.4	17.9	7.9	7.6	4.7	
F3	33.9	24.8	17.4	11.5	7.2	5.3	28.2	25.1	20.4	11.1	9.6	5.6	
C3	25.8	18.6	12.9	35.3	4.6	2.9	21.6	25.6	29.4	11.8	7.3	4.4	
P3	33	19	15.9	23.9	5.2	2.9	23.4	24.1	27	10	8.5	7.1	
O1	33.5	22.5	19.4	15.1	6.2	3.2	16.4	17.4	20.7	13.7	12.2	19.5	
FZ	29.4	30.9	16.9	11.8	6.7	4.2	23.9	28.5	22.7	10.6	9	5.4	
CZ	27.1	27.9	21.9	14.6	5.3	3.3	27.4	27.4	25.2	10.4	5.5	4.1	
PZ	33.2	21.6	19.7	17.7	5.2	2.5	28.3	21.6	26.7	10.9	6.4	6.1	
FP2	36.2	27.9	13.9	10.3	7.3	4.5	28.8	28.8	18.8	9.2	8.8	5.7	
F4	31.9	30.5	14.7	9.3	7.9	5.8	23.1	26.7	21.4	10.3	10.5	8	
C4	23	24	12.6	31.5	4.7	4.2	26.1	21	20.1	21	7	4.9	
P4	31.2	21.6	18.6	20.1	5.2	3.3	29.7	14.8	24.2	11.7	8.7	11	
O2	32.2	21.7	21.7	15.2	5.8	3.3	13.1	9.9	13.9	12.4	16.3	34.5	
F8	32.4	28.1	13.8	8.1	7.9	9.6	39.2	22.8	13.2	7.5	7.8	9.8	
T4	28.1	22.7	17.3	12.6	9.6	9.7	29.4	22.2	15.9	8.3	11.6	12.6	
T6	31.4	19.6	17.3	15.3	6.4	10	16.6	9.4	13.5	8.4	19.6	32.6	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.6	19.3	17	21.2	6.9	6.1	35.8	15.2	20.1	17.1	7.8	4.1	
T3	18.6	17.7	22	25.4	10.6	5.5	28	15.7	22.2	14.3	10.3	9.5	
T5	18.6	15.4	15.7	33.3	14.2	2.8	17.3	17.1	22.5	25.1	13.1	4.8	
FP1	26.1	18.8	19.3	24.5	7.7	3.7	21.1	17	24.1	22.5	10.6	4.7	
F3	15.7	19.7	22.8	29	8.7	4	18	14.5	26.9	27.2	10.2	3.4	
C3	13.6	18.5	19.5	37	8.7	2.7	15.5	16.9	20.4	35.2	9.6	2.4	
P3	16.4	20.2	18.2	29.8	12.8	2.5	18.1	21	23.5	20	14.1	3.2	
O1	19.4	16.1	14	35.9	12.3	2.3	12.9	17.1	21.9	25.7	13.7	8.7	
FZ	13.9	19.9	25.7	28.3	8.7	3.5	16.4	14.3	30.1	26.3	9.9	2.9	
CZ	17.4	23.6	21.8	26.4	8.4	2.3	20	17.2	29.1	23.5	8.1	2	
PZ	20.4	19.8	17.9	27.2	12.6	2.2	20.3	21.6	23.4	18.8	13.4	2.5	
FP2	25.9	19	18.2	25	8.3	3.6	21.2	17.5	25	21.6	9.8	4.9	
F4	18	15.3	22.7	29.9	10.1	4	17.1	14.6	27.3	26.6	10.7	3.7	
C4	16.3	14.4	16.9	38.7	11.2	2.4	14.8	13.6	22.5	35.6	11.3	2.2	
P4	20.1	16.2	15.9	30.1	15.2	2.6	20.4	20	21.7	20.8	14.6	2.5	
O2	19.9	17.7	15	32.6	12.5	2.3	16.2	20.3	26.5	24.4	9.3	3.3	
F8	31.5	14.1	16	24.4	9.2	4.8	29.6	16.2	24.3	17	7.5	5.4	
T4	21.8	13.2	16.7	25.9	14.4	8.1	19.2	15.8	24.5	18.9	16.1	5.5	
T6	20.4	19	14.7	30.1	13.2	2.7	19.6	20.2	21.3	24.1	10.9	3.9	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29	15.5	17.2	24.4	8.7	5.2	44.1	20.4	14.8	13.4	4.8	2.5	
T3	15.9	10.1	17.8	23.4	11.8	21.1	22.7	16.9	17.4	22.4	8.7	12	
T5	11.9	18.2	22.3	27.4	12.4	7.9	18.6	21.5	20.4	23.9	10.9	4.6	
FP1	33.9	13.9	20.4	22.5	6.5	2.8	40.4	24.1	14.2	16.1	3.8	1.5	
F3	25.9	14.6	27	23.3	6.1	3.1	25.5	26.7	20.9	17.3	7.1	2.5	
C3	19.7	15.1	28.5	26.1	7.3	3.3	20.1	16.6	19.6	32.9	8.1	2.7	
P3	14.4	21.8	26.7	24.9	8.3	3.8	23.3	18	24.4	19.8	11.3	3.2	
O1	12.2	17	23.5	24.5	11.3	11.4	18.1	19.7	30	15.9	9	7.3	
FZ	21.8	14.7	31.2	24.1	5.6	2.6	20.3	23.3	25	23	5.9	2.5	
CZ	20.8	18.1	28.8	23.1	6.4	2.8	18.3	18.3	23.5	31.6	6.2	2	
PZ	17.4	22.1	26.3	24.5	6.9	2.8	21.8	18.3	25.8	23.4	8.3	2.3	
FP2	32.5	14.5	20.8	23.3	5.7	3.2	39.7	21.7	16.8	16.2	4	1.6	
F4	24	15.1	26.8	24.3	6.4	3.5	22.1	20.3	21.9	25.3	6.8	3.6	
C4	19.8	15.4	29.7	23.2	8.9	3	16	12.7	18.5	40	9.6	3.2	
P4	17.6	19.9	27.2	22.7	9	3.4	21.8	16.9	26.5	21.1	11.1	2.7	
O2	16.1	15.2	24	22.5	9.8	12.5	21	19.3	34.9	15.5	5.9	3.3	
F8	31.4	15.6	19.9	21.5	6.4	5.1	38.9	19.5	16.1	18.9	4.2	2.4	
T4	7.2	5.5	10.1	15.3	17.7	44.2	18.1	14.2	19	17.1	13.4	18.2	
T6	15.5	16.1	24.7	23.6	11.6	8.5	21.5	20	29.1	15.7	9	4.7	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.2	22.1	19.6	14.2	6.8	5.1	37	16.3	19.2	19	5.1	3.5	
T3	18.1	14	20.2	17.9	13.8	16	24.7	18.2	23.5	18.7	8.4	6.6	
T5	20.5	15.5	20.9	26.3	13.2	3.6	22.6	16.4	24.3	16.6	14.9	5.2	
FP1	22.8	23	20.7	21.7	7.3	4.6	35.2	20.7	17.5	19.6	4	3.1	
F3	18.3	20	24.4	24.6	8.4	4.3	23.8	22	24.1	22.7	5.1	2.3	
C3	21.8	16.4	20.5	30.9	7.8	2.6	22.8	20.3	24.2	21.6	8.2	2.9	
P3	23.3	19.6	20.4	21.4	12.7	2.6	25.2	21.2	21.5	15.7	12.9	3.5	
O1	26.3	21.1	18.2	22.2	9.7	2.4	22.1	16.6	17.5	16.6	15	12.2	
FZ	17.4	21.2	24.7	25.2	8.4	3.1	23.6	19.7	22.8	24.6	6.5	2.9	
CZ	22.6	16.8	26.3	25.6	6.6	2	24.1	20	22.3	23.9	7	2.7	
PZ	24.5	17.7	23.6	23.2	9	1.9	22.2	25.5	21.2	18.6	9.6	2.9	
FP2	23.9	23.9	18.6	21.2	7.2	5.2	32.1	19.3	18.1	19.6	5.5	5.4	
F4	20.7	21.8	19.6	24.6	9.1	4.3	19.6	17	24.7	26.3	8.2	4.3	
C4	15	15.7	19.8	38.3	8.7	2.6	21.7	20.1	19.8	26.3	8.8	3.2	
P4	21.4	19.9	21.5	23.5	11.7	2.1	19.6	27.3	21.7	18.4	9.7	3.3	
O2	24.4	24.8	21	20	7.7	2.2	19.2	19.1	19.9	17.7	12.4	11.7	
F8	28.3	20.5	18.7	18.6	7.4	6.5	37.8	17.7	15.6	18.4	6.5	4.1	
T4	16.9	15.3	18.4	20.5	18.4	10.5	27	16.1	15.2	22.2	12.4	7.1	
T6	20.9	20.6	17.3	24.9	13.1	3.2	19	18.6	19.4	20.7	14.1	8.2	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.8	21.4	18.7	15.7	9.2	8.2	36.1	21.5	15.9	14.3	5.9	6.3	
T3	22.7	17.7	28.4	15.5	9.4	6.4	32.6	21.4	20.6	12.3	7.5	5.6	
T5	22.8	19.5	20.2	18.8	12	6.7	22.8	22.6	22.3	15.2	9.8	7.3	
FP1	26.7	22.3	19.2	15.4	9.6	6.8	25.9	24.5	24	15.8	5.9	4	
F3	22.3	21.2	25.7	15.6	10.4	4.9	24.2	26.8	22.8	16.7	6.7	2.9	
C3	20.3	21.4	28.9	18.2	8.5	2.7	26.1	24.4	20.3	20.8	5.8	2.6	
P3	21.6	23.1	24.8	20.6	7.6	2.3	26.1	23.5	21.5	18.9	6.8	3.2	
O1	23.3	21.8	20	21.1	10.5	3.3	20	21.1	22.7	19.4	11.3	5.5	
FZ	24.7	22.2	26.7	14	9.3	3.1	24.1	26.2	25.3	16.1	6.1	2.3	
CZ	22.9	22.3	26.9	17.3	7.9	2.6	26.2	28.3	22.6	15.4	5.2	2.3	
PZ	24.8	24.5	24.1	17.6	6.9	2.1	28	25.9	23.6	13.1	6.4	3.1	
FP2	26	21	16.2	11.7	11.2	13.9	26.8	25.6	21.4	14.9	6.2	5.1	
F4	27.1	21.3	20.8	11.2	10.1	9.5	24.6	26.7	22.7	15.2	6.6	4.1	
C4	27.9	23.3	22.1	15.1	8.5	3.1	28.6	26	20	17.5	5.7	2.2	
P4	27.2	23.2	21.7	17.4	8.1	2.4	29.6	23.3	24.4	12.6	6.9	3.3	
O2	24.2	23.9	19.3	19.4	10.1	3.1	21.5	20.1	22.1	16.8	13.7	5.7	
F8	33.2	21	16.1	9.6	11.1	9	27.8	24	17.5	13.1	7.3	10.3	
T4	29.8	21.5	17.9	12.9	11.7	6.2	35.2	22	18.3	12.6	7.5	4.4	
T6	26.9	24.2	18.3	15.4	9.7	5.5	24	22.6	21	12.8	11.3	8.3	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	40.8	18	20.6	11.7	6.1	4.8	29.8	23.7	15.5	16.2	7.6	7.2	
T3	29.1	21	21.9	17.3	6.6	4	16.4	26	19.7	17.2	10	10.7	
T5	15.3	20.3	21.8	14.7	11.7	16.2	12.4	21.6	24.8	17.6	13.7	9.9	
FP1	33.7	14.1	27.3	14.8	8.1	4	20.5	29.9	22.1	16	6.5	5	
F3	30.5	17.7	26.2	16.3	6.2	3.2	19.8	27.1	24.9	16.6	8	3.5	
C3	25.3	17.5	22.6	25.5	6.1	3	15.1	25.3	22.9	23.2	9.8	3.7	
P3	17.1	24.6	26.3	18.5	9.7	3.8	18.3	22.3	25	19.1	11.6	3.7	
O1	14.9	26.2	22.8	17.8	12.7	5.6	16.8	21.5	23.1	16.3	16.1	6.3	
FZ	27.5	16.2	30.4	16.8	5.7	3.4	17.8	30.2	23.3	17.8	7.6	3.3	
CZ	25	18.9	24.5	22.4	5.9	3.3	18.7	26.7	23.3	19.1	8.7	3.5	
PZ	20.4	23.1	22.7	20.4	9.8	3.6	22.7	21.4	26.4	14.6	11.7	3.3	
FP2	30.4	16.6	26.2	15.7	6.2	4.9	20.2	27	22.9	15.4	7.2	7.4	
F4	26.6	18.3	23.9	17.4	6.5	5.3	14.5	25.5	21.8	22.4	8.4	7.4	
C4	24.4	20.1	22.5	22.3	6.9	3.8	18.2	25.5	22.4	19.7	10.3	3.8	
P4	19.7	23.1	23.6	18.3	10.5	4.9	22.9	22.6	23.6	15.3	11.1	4.5	
O2	17.6	20.5	22.9	18.7	13.3	7	19.1	23.3	21.2	15	14.7	6.7	
F8	27.9	20.8	17.9	19.5	7	6.8	20.3	21.5	20.7	18.4	11.1	7.9	
T4	24.8	25.2	18.2	17.9	8	5.9	15.8	19.8	20.9	22.9	12.1	8.4	
T6	17	18.4	17.2	15.6	13	18.8	16.4	18.9	20.3	14.5	15.2	14.8	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.5	23	21.1	9.8	8	7.6	27.5	20.1	22.1	15.3	8.7	6.3	
T3	25.5	25.2	17.5	12.7	9.2	9.9	24.9	23.4	21.5	14.3	5.2	10.7	
T5	19.3	18.5	20.7	23.4	12	6.1	11.7	22.7	22.8	11.8	10.8	20.2	
FP1	20.1	18.7	24.4	13.4	9.7	13.7	30.1	26.9	22.5	10.2	6.2	4.1	
F3	20.1	25.1	26.4	14.7	8.3	5.4	19.2	25.4	29.9	15.8	6.5	3.3	
C3	21.7	28.7	22.7	16.3	7.8	2.8	18.3	23	24.1	24.4	7.1	3	
P3	23.8	23.5	21.9	19.1	8.7	3	12.2	27.4	27.6	18.3	10.8	3.6	
O1	21	21.1	21.7	19	13	4.3	14	26.8	25.9	15.2	12.9	5.1	
FZ	19	26.2	27.7	17	6.6	3.4	17	25.5	32.3	15.6	6.4	3.2	
CZ	19.9	28.2	24.8	17.8	6.5	2.8	17.5	23.9	26.1	21.6	7.4	3.6	
PZ	23.1	24.6	23.5	18.1	7.9	2.8	14.8	28.1	23.8	19.8	10	3.6	
FP2	16.2	18	22.3	13.6	10.5	19.3	29	26.6	19.7	10.9	6.6	7.1	
F4	19.9	23.9	23.9	15.3	6.9	10	19.7	24.2	23.3	17.6	6.9	8.3	
C4	20.9	26.5	24.7	17.3	7.4	3.3	16.2	25.2	24	22.5	7.9	4.2	
P4	22.3	22.7	23.6	18.8	9.6	3	14.3	26.8	25	18.7	10.8	4.5	
O2	21.1	21.6	20.3	19.1	13.8	4	13.9	26.5	21.6	17	14.2	6.8	
F8	24.1	21.2	18.4	15.6	9.4	11.2	23.5	18.4	16.4	14.6	11.1	16	
T4	21.7	20.8	21.4	18.8	11	6.3	18.7	26.2	19.9	17.8	10	7.3	
T6	19.1	21.3	18.9	19.6	13.9	7.2	11.1	21.2	20.7	14.4	14.1	18.6	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.7	27.3	15	13.8	8.1	5.2	31.9	24	21.4	11.3	6.6	4.8	
T3	22.6	23.8	19	18.3	8.5	7.8	24.6	30.8	22.7	9.8	7.3	4.8	
T5	25.3	19.2	18.4	26.6	6.1	4.3	21.8	27.7	24.7	13.2	7.5	5.1	
FP1	25.9	28.1	18.6	16.9	6.9	3.7	26.8	29.3	23.4	11.5	5.8	3.2	
F3	19.7	26.5	20.4	20.3	8.7	4.5	21.4	31.8	27.1	11.6	5.2	2.9	
C3	15.3	19.1	17.1	40.2	5.2	3.1	19.3	32	27.2	13.7	5.1	2.8	
P3	19.1	24.4	16.9	31.8	4.6	3.3	25.9	29.3	23.7	12.7	5.7	2.8	
O1	29.6	23.7	15.1	25.5	3.7	2.4	17.2	23.8	28.7	17.3	6.9	6.2	
FZ	20.6	27.8	20.2	20.7	7.4	3.3	20.4	32.2	28.1	10.9	5.6	2.7	
CZ	18.9	24.7	19.2	30.5	4.2	2.4	20.4	29.4	28.4	14.4	4.8	2.7	
PZ	18	25.9	16.4	34.6	3.3	1.8	22.5	30.4	24.4	15.2	5	2.5	
FP2	30.7	26.8	18.2	14.5	6.6	3.2	31.4	27.4	21.2	10.6	6.3	3.1	
F4	26.5	24.7	20.3	18.4	6.7	3.4	22.9	31.9	25.1	11.1	6.2	2.9	
C4	11.3	16.2	15	50.1	4.7	2.7	23.1	33.9	23.8	11.8	4.8	2.7	
P4	18.2	23.9	17.1	35.4	3.6	1.9	23.3	31.8	23.2	13.4	5.6	2.7	
O2	27.6	25.8	14.3	26	3.9	2.3	17.1	26.6	24.6	16.4	7.8	7.8	
F8	35.7	24.1	17.7	13	5.5	4	31	29.2	19.5	10.4	6.6	3.4	
T4	27.9	26.4	15	22.1	5.4	3.2	28	31.8	18.8	10.7	6.2	4.5	
T6	23.5	20.8	17.9	30.1	4.9	2.7	23.2	31.9	22.7	11.5	6.5	4.2	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.7	21.6	21.4	13.5	8.8	6.1	41	26.5	13.6	8.6	5.5	4.8	
T3	22.4	28.2	21.5	12.8	9	6.2	26	29.8	16.4	12.2	9.7	5.8	
T5	27.1	23.2	19.8	12	9.2	8.6	30.9	25.3	21.9	12.9	5.6	3.4	
FP1	29.5	22.9	25.7	11.6	6.8	3.4	42.6	29	15.8	6.8	3.8	2	
F3	21.1	23.3	28.2	16.9	6.7	3.7	40.2	26	18.5	9.3	4.1	2	
C3	19.4	22.2	27.1	23.4	4.9	3	28.5	25.8	22	16.7	4.3	2.6	
P3	31	25.1	21.9	13.4	5.2	3.4	28.6	28.2	23.6	13	4.5	2.1	
O1	26.8	23.3	19.3	14.1	7.5	9	28.5	28.6	22.4	12.8	4.3	3.4	
FZ	20.9	23	30.7	15.4	6.9	3.1	35.4	27.3	20.2	10.5	4.7	2	
CZ	21.6	23.5	26.8	20.7	4.9	2.6	29.1	26.7	24.2	13.5	4.1	2.3	
PZ	28.8	24.9	22.6	16.8	4.6	2.6	28.5	28.3	23.6	14.2	3.7	1.8	
FP2	31.3	22.5	23.5	12.2	6.8	3.7	39	31.9	15.2	7	4.7	2.2	
F4	23.1	26.3	25	15.2	7.1	3.2	32.3	28.7	20.2	11.3	5.2	2.3	
C4	21	26	31.3	14	5	2.8	26.9	22.9	24.2	19.5	4	2.5	
P4	29.2	27.8	22.1	13.6	4.8	2.6	31.4	28.5	23.1	11.7	3.1	2	
O2	25.2	24.2	17.5	16.1	8	9	31	28.9	21.2	10.7	4.2	4	
F8	28.2	23.6	19.3	15.5	8.3	5	33.8	29.3	19	8.6	5.1	4.1	
T4	21.4	30.2	22.6	14	7.1	4.7	28	25.2	17	17.6	7.2	4.9	
T6	27.5	29.4	19.5	12.1	6.6	4.9	30.6	31	18.9	11.7	4.5	3.2	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32	19.6	22.4	7.6	10.6	7.8	36.9	22	21	10.1	6.1	3.9	
T3	27.5	17.3	26.8	12.3	10.5	5.6	26.3	29	26.6	9.7	6.1	2.2	
T5	33	16.6	16.1	25.7	5.7	3	27.9	27.4	25.1	9.8	5.5	4.4	
FP1	28.9	31.2	24.3	6.8	5.9	2.9	27.6	31.3	25	9.1	4.9	2.1	
F3	30.5	25.9	28.2	7.4	5.4	2.7	27.6	30.6	24.3	10.1	4.9	2.4	
C3	23.6	20.8	12.2	35	5.4	2.9	26.4	24.6	27.2	15.5	4	2.4	
P3	34.3	16	13.4	29.6	4.7	1.9	29.1	27.1	25.7	11.2	4.1	2.7	
O1	32	23.6	14.7	22.7	4.8	2.2	23.8	20	24.7	15.3	7.5	8.6	
FZ	25.6	24.6	35.1	7.4	4.7	2.5	24.5	34.8	25.9	7.6	4.9	2.2	
CZ	29.8	24.2	24.7	14.9	4.4	1.9	20.7	30.5	32.6	11.3	3	2	
PZ	37.4	19.5	18.6	19.5	3.7	1.3	28.7	26.5	25.8	13.2	3.6	2.1	
FP2	28	30.2	26.1	6.6	5.8	3.4	31	31.4	21.5	8.7	5	2.4	
F4	28.4	28.2	29.1	8.2	3.1	3	25.7	33.7	23.9	9.1	4.6	2.9	
C4	29.5	21.3	20.8	22.7	3.8	1.9	22.1	26.6	32.9	11.5	4.5	2.4	
P4	43.3	18.7	16.4	17.1	3	1.4	23.3	27.5	28.3	14	4.5	2.4	
O2	39.6	24	11.9	18.1	3.8	2.5	22.9	22.5	22.5	12.6	9.8	9.7	
F8	22.8	30	25.6	9.2	7.3	5.1	28.8	31.7	21.3	9.7	5.3	3.2	
T4	16.9	35	24	14.6	5.2	4.3	25.3	30.7	21.6	12.3	7	3.2	
T6	38.5	26.7	15.2	13.9	3.3	2.5	19.9	28	26.3	14.6	6.9	4.3	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.2	17.6	13.8	11.6	17.3	13.4	21.5	22.8	17.5	12.9	14.9	10.3	
T3	19.3	17.3	11.5	9	25.9	17.1	20.1	16.4	15.8	11.5	20.7	15.5	
T5	20.8	25.7	13.9	10.1	18.1	11.3	21.2	20.1	16	12.5	21.9	8.4	
FP1	17.7	16	12	9.3	19.9	25.1	18.9	22	14.9	12.3	16.1	15.7	
F3	19.9	20.5	16.3	10.7	20.3	12.4	16.3	21.6	20.1	12.9	20.1	8.9	
C3	23	22.9	19.3	14.5	13.7	6.4	20	21.5	20.1	18.4	14.7	5.2	
P3	23.7	23.9	18.1	11.7	15.2	7.4	24.4	19.1	18.1	16.1	16	6.4	
O1	14.6	11.7	9.2	12.8	20.4	31.2	10.4	8.1	7.2	14.6	21.3	38.3	
FZ	20.9	24.7	21.7	11.1	16.5	5.1	17.4	21.2	24.2	13.5	18.3	5.4	
CZ	21.3	25.9	25.8	13.7	9.5	3.8	21.2	20.2	24	18.7	11.6	4.3	
PZ	25.3	24.9	20.7	12.3	12.6	4.2	25.6	19.1	20.9	17.4	12.8	4.2	
FP2	16.3	15.2	12.1	8.2	19.7	28.6	19.9	19.9	15	13	15.6	16.5	
F4	20.6	23.2	20.9	10.6	17.3	7.6	17.3	21.9	20.4	13.8	19.4	7.3	
C4	18.5	24.2	21.2	18.6	12.9	4.6	15.4	17.6	17.6	31.5	12.9	5	
P4	25.3	26.4	17.5	11.9	14.5	4.5	22	19.7	19.6	18.5	14.5	5.7	
O2	26.2	24.7	17.6	11.5	13.1	6.9	24.8	19.1	17.7	15.2	14.3	9	
F8	24.9	20.4	16.6	9	14.5	14.6	28.1	19.8	15.8	11.6	13	11.7	
T4	6.2	6.3	3.9	3.9	37.8	41.9	8.8	5.5	4.7	6.5	35.1	39.4	
T6	21.1	22.6	11.5	10.1	23.4	11.3	15.9	17.8	16.5	13.9	22.5	13.4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	22.5	18.3	17.6	18.5	12.5	10.6	33.4	21.5	17.6	10.3	8.5	8.7	
T3	15.1	12.3	13.7	22.8	23.1	13	21.5	16.1	14.3	11.6	22.4	14.1	
T5	20.8	20.4	16.2	21.8	14.3	6.6	25.7	22.8	15.7	12.9	14.9	8	
FP1	19.5	18.6	20.7	21.1	12.7	7.4	35	22.2	18.5	11.1	7.7	5.4	
F3	14.6	17	24	21.6	15.9	6.9	22	22.7	21.4	10.7	15.1	8	
C3	16.3	21.3	25.2	18.9	12.7	5.7	22.5	23.5	22.1	10.6	13.2	8.2	
P3	19.3	20.2	18.8	19.5	15.3	6.9	26.4	25.7	17.4	11.3	12.3	6.8	
O1	7.5	7.3	8.5	20.4	21.8	34.4	17.3	16.6	13	11.8	15.8	25.5	
FZ	13.1	19.4	24.5	21.4	17.1	4.4	24.2	25.5	20.9	9.5	14.6	5.4	
CZ	14.9	21.1	27	24	9.6	3.4	28.8	24.8	22.2	10	9.8	4.3	
PZ	22	20	20.8	21.9	11.6	3.7	29.8	25.9	19.7	10.4	10.2	4	
FP2	19.1	18.5	21.6	20.7	13.8	6.3	37.3	20.4	16.1	11.6	8.7	5.9	
F4	13.7	20	24.5	20.3	15.6	5.8	24	24.8	19.4	10.3	13.9	7.7	
C4	15.9	20.8	26.4	21.3	10.6	5	24.4	24.2	21.5	13.4	10.9	5.7	
P4	22.9	22.6	19.6	19	10.9	5.1	27.3	27.8	19.1	11.8	9.7	4.4	
O2	18.8	19	17.4	20.3	13.5	11	25	27.3	22.9	9.2	9.9	5.7	
F8	19.3	18.2	18.3	19.5	14.4	10.4	29.4	22.3	13.5	11.2	11.4	12.1	
T4	13.8	13.3	10.2	17.7	20	25	11.2	10	7.3	8.3	30.7	32.5	
T6	21.1	19.3	14.7	17.5	17.4	10.1	23	24	13.4	13	18.9	7.6	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.6	17.8	15.7	11.6	16.7	11.5	27.8	17.6	17.5	12.6	13.3	11.2	
T3	24.1	15.2	11.8	9.6	23	16.3	25.8	17	13.4	12.6	16	15.2	
T5	23.7	21.6	14.3	13	19.2	8.2	21	22.5	15.4	14.9	15.5	10.6	
FP1	28.8	21.7	15.6	10.7	14.1	9	26.4	19.2	19.5	9.6	14.2	11	
F3	22	22.8	17.4	11.4	18.5	8	17.5	23.4	22.3	13.8	15.4	7.6	
C3	26.5	19.7	19.5	12.9	15.1	6.4	23	25	19.4	13.4	11.8	7.4	
P3	27.7	20.1	15.1	14.3	16.8	5.9	22.5	21.9	17.1	14.2	14.9	9.5	
O1	22	17.1	11.5	14.1	16.1	19.2	11.9	10.8	8.5	16	19.5	33.2	
FZ	20.8	23.5	20.5	11.2	18.1	5.9	19.6	23.2	26	11.7	14.5	4.9	
CZ	26.9	23.1	20.2	13.5	11.7	4.7	24.8	26.9	20.7	15	8.2	4.4	
PZ	31.3	20.4	15.6	16.7	11.9	4	26	28.6	18.3	12.6	9.9	4.5	
FP2	29.6	21.1	14.4	10.5	14.4	10	23.8	21	19.1	11.4	14.6	10.1	
F4	21.6	24	18.9	10	17.8	7.6	18.7	22.3	23	12.2	16.7	7.1	
C4	26.4	22.9	20.1	13.6	12.1	4.9	25.2	27.8	20.9	10.7	10.3	5	
P4	29.5	19.9	16.3	15.3	14.7	4.3	31.3	26.9	16.4	10.4	10.1	4.9	
O2	29.7	21.9	14.9	15.4	12.6	5.4	25.7	24.4	15.7	13.1	11	10	
F8	27.7	21.3	13.3	10.4	16	11.2	32.6	17.6	13.9	11	11.9	13	
T4	9	5.6	4.7	8.3	30.1	42.4	10	7.8	4.6	8.5	29.9	39.2	
T6	25.1	20.1	12.4	14.5	20.1	7.8	24.6	17.9	12.6	11.5	19.8	13.5	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	36.8	17.7	12.7	11.1	11.5	10.2	35.3	24.2	14.6	11.4	8.7	5.8	
T3	18.1	10.6	6.5	6.1	21.5	37.3	13.7	10.4	7.4	5.7	19.7	42.9	
T5	27.5	25.1	13.9	13.5	11.1	8.9	29.4	27.8	16.4	11.6	8.7	6.1	
FP1	28.6	26.2	12.5	9.5	13.2	10	29.7	27	16.2	11.5	8.6	7	
F3	28.4	21.2	14.1	14.3	13.3	8.7	22.7	24.4	18.6	15.6	11	7.8	
C3	23.4	20.3	15.3	21.2	14.2	5.6	22.9	20.7	15.8	22.1	13.4	5.1	
P3	28.9	23.6	14.2	17.9	9.4	6	28.3	26.4	19.8	12.5	8.9	4.1	
O1	25.7	24.2	12.6	23.4	9.4	4.7	22	22.6	29.6	15.5	6.5	3.8	
FZ	25	23.1	17.1	11.6	11.9	11.4	19.7	25.9	20.2	14	10.2	9.9	
CZ	22.9	26.6	17.1	19.7	9.3	4.4	27.1	26.9	18.3	17.9	6.2	3.5	
PZ	26.1	27.2	13.3	23.4	6.4	3.7	24.5	25.9	26.8	14.4	6.2	2.4	
FP2	31.1	25.1	12.5	9.1	12	10.2	34.7	24.9	15.7	10.3	7.2	7.1	
F4	25.4	21.5	13.9	12.3	13.5	13.5	21.8	24.8	17.9	14.1	11.1	10.3	
C4	22.8	23	14.3	22.4	10.8	6.6	23.9	26.2	17	18.4	9.7	4.7	
P4	25.2	26.3	12.3	22.4	9.6	4.2	21.7	27.6	32.2	10.3	5.2	2.9	
O2	21.7	25.2	14.2	24.7	10.2	4	17.4	19	27.5	16.9	9.1	10.2	
F8	31.7	26.7	12.6	9.8	10.5	8.8	36	24.1	15	10.1	8.3	6.5	
T4	20.5	20.4	12.8	10.3	19.8	16.2	25.3	21.1	11.2	9.9	17	15.5	
T6	23.2	25.1	13.8	16.6	13.1	8.1	27	25.9	23.6	9.8	8	5.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.2	24.7	15.8	9.7	9.3	7.4	44.9	21.5	16.1	6.4	6.8	4.3	
T3	24.4	19.1	15.2	11.5	15	14.8	23.5	17.4	11.2	7.9	19.4	20.6	
T5	24.5	27.9	15.9	11.2	10.5	10.2	25.4	26.7	19.6	10.1	11.9	6.3	
FP1	33.4	23.1	18	12.1	8.1	5.3	43.5	22.8	17.1	6.7	5.8	4.1	
F3	26.1	21.8	23.4	11.4	11.1	6.2	25.2	21.9	25.9	12.1	7.1	7.8	
C3	24.4	27.5	22.3	12.5	8	5.4	20	21	18.6	24.6	10	5.7	
P3	27.5	30.2	16.3	11.7	7.9	6.6	27.1	29.3	19.8	11.5	7.8	4.6	
O1	23.6	29.3	18.2	12.3	9	7.7	21.7	29.9	30.8	8.8	6	2.9	
FZ	25.8	24	21.4	11.8	9.3	7.7	25.3	21.4	25.2	8.9	8.2	10.9	
CZ	28.1	28.9	19.1	13.1	6.7	4	26.6	26.9	21.9	13.1	6.7	4.7	
PZ	27	29.9	17.7	15	6.3	4.1	19.9	32.1	26.9	12.1	6.1	2.9	
FP2	31.6	24.5	18.6	10.8	7.5	7	47.3	22.6	16.5	4.9	4.6	4.1	
F4	22.2	24.8	18.9	13.9	10.5	9.7	28.7	22.6	18.6	9.4	9.6	11	
C4	20.2	25.7	22.7	15.6	9.8	6	28.2	20.7	13.7	17.9	12.4	7.3	
P4	26.6	30.5	17.3	12	6.4	7.2	23.3	30.8	26.4	9.5	5.8	4.2	
O2	10	12.6	11.3	17.6	20	28.6	18.2	29.8	31.9	8.8	6.2	5	
F8	25.7	25.4	17.5	10.6	10.1	10.7	33	25.2	18.1	7.6	8.9	7.3	
T4	18.7	19	14.5	10.2	22.2	15.4	29.2	28.5	13.1	10.5	11.8	6.9	
T6	21.1	25.7	14.8	10.7	12.8	15	29.8	30.7	17.7	6.9	8.3	6.6	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.5	27.5	19.2	8.2	8.1	8.6	40.9	25.7	13.7	7.8	7	4.8	
T3	12.4	13.1	8.4	8.1	25.9	32.1	26.6	21.4	11.2	8	14.2	18.5	
T5	31.9	23.2	13.5	11.2	11.1	9.1	26.9	29.1	15.6	8.9	9	10.5	
FP1	36	24.1	15.1	8.4	8.5	7.8	41.2	23.6	16.2	8.2	6.4	4.4	
F3	21.6	21.8	23.6	12.9	11.2	8.9	32.5	23.1	17.9	10.1	9.6	6.7	
C3	21.3	22	17.5	21.4	12.4	5.4	27.4	30.9	19.5	11.4	6.6	4.2	
P3	29.9	23.7	15.9	13.4	10.6	6.5	27.7	27.9	18	11.1	8.7	6.6	
O1	27	27	18.4	13.4	9.3	4.9	24.2	27.6	18.7	12.2	8.2	9.1	
FZ	22.1	23.7	23.4	11.3	10.4	9.2	27.8	24.2	19.2	10.5	10.2	8.1	
CZ	26.6	26.9	20	14.3	8	4.2	26	29.9	20.5	13.6	6.2	3.9	
PZ	30	25.4	17.3	16.2	8	3	25.1	26.7	22.5	16.5	6.2	3	
FP2	33.8	27.8	14.2	8.2	8	8.2	41.3	22.9	16.3	7.6	5.9	5.9	
F4	22.3	24.6	18.9	11.8	12.2	10.2	28.9	23.2	18	11.4	10.3	8.1	
C4	24.9	25	15.1	17.7	12.2	5.1	27.9	26.9	20.3	12.3	8	4.7	
P4	30	28.5	18.3	12.2	7.4	3.7	21	32.9	24.1	11.6	6.8	3.7	
O2	20.3	27.5	21.5	16.3	9.5	4.9	17	22.1	19	13.5	12.8	15.7	
F8	31.7	25.2	15.6	9.3	9.2	9	38	21.7	17	8.3	8	7.1	
T4	22.3	21.4	13.1	12.2	15.7	15.3	24.1	20.9	16	11.1	14.2	13.8	
T6	28	26.8	16.4	12.1	9.8	6.9	27.1	29.7	17.6	10.1	7.9	7.7	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.3	19.4	20.3	10.6	9.9	6.5	28.3	22	23	13.1	6.7	6.8	
T3	15.8	18.7	17.5	12.7	10.5	24.8	20	22.9	16.9	13.2	11.1	16	
T5	22.2	15.6	19.3	19.2	15.3	8.3	25.7	18	17.4	15.3	12.8	10.9	
FP1	27.5	18.9	20.5	12.8	10.6	9.8	29.7	20.7	22.4	13.8	6.2	7.2	
F3	25.4	20.6	26	11.8	10.6	5.6	24.8	20.1	28	13.9	7.1	8.2	
C3	22.4	20.3	28.4	14.5	9.4	5	24.8	22.6	24.3	16.2	7	5	
P3	24.6	18.3	22.5	20.2	9.8	4.6	23.4	21.9	21.1	18.5	8.7	6.4	
O1	22.9	15.6	17.2	17.9	13.4	13	16.4	16.3	18.2	16.4	13.3	19.4	
FZ	24.7	19.3	32.1	12.4	7.6	4	24.4	21.7	29.8	13.5	6.6	4.1	
CZ	25	21.5	32.7	11.5	6.1	3.3	25.6	24.1	26.4	14.2	6.1	3.6	
PZ	24.1	17.6	28.4	19.7	8.1	4.2	28.8	21.5	20.5	15.5	9	4.7	
FP2	27.7	18.7	18.6	15.2	11.4	8.5	30.1	21.7	20.3	12.3	8	7.7	
F4	23.9	17.6	22.5	13.5	10.8	11.7	20.5	19.6	21.5	11.6	9.4	17.5	
C4	23.5	19.4	26.6	14.9	10.2	5.4	27.3	18	25.2	14.1	10.1	5.2	
P4	25.1	20.4	23.1	16.4	9.6	5.5	28.2	19.2	20.7	15	10.8	6.1	
O2	24.5	14.3	13.8	12.8	15.8	18.8	15.9	13.1	16.5	17.7	17.3	19.6	
F8	26.4	17.9	16.4	15.7	13.2	10.5	34.8	23.2	14.9	10.6	8.4	8	
T4	20.1	12.4	11.7	11	17.1	27.7	31.8	17.9	13.6	12.2	13.1	11.5	
T6	22.8	17.7	18.6	15.9	15.5	9.5	24	19.4	19.6	14.7	13.6	6.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.8	19.5	16.2	14.2	10.6	9.8	36	20.9	20.6	10.5	8.2	3.8	
T3	18.5	16.1	20.3	16.9	14.6	13.6	21.1	13.3	17.6	11.5	15.9	20.6	
T5	20.5	13.4	21.2	13.9	16.3	14.7	25.7	16.5	19.4	12.9	14.8	10.7	
FP1	28.6	21.7	22.6	13.1	7.8	6.3	30.7	19.4	21.2	12.1	10.6	6	
F3	18.5	18.9	21.3	12.6	14.4	14.3	27.8	15.9	23	11.4	12.7	9.2	
C3	22.8	21.9	24.9	16.1	8.2	6.4	23.9	15.7	27.4	16.2	10.8	6	
P3	25.5	17.9	23.6	15.8	9.9	7.3	26.7	18.2	22.2	13.7	11.7	7.5	
O1	17.5	13.5	17	15.4	14.5	22	17.7	13	14.4	14.9	16	24	
FZ	22.2	23.2	30	13.4	7.3	3.9	31.1	17.4	28.2	11.6	8	3.7	
CZ	28.3	21	26.8	13.6	5.8	4.4	25.5	18.5	34.7	11.3	6.7	3.3	
PZ	29.4	20.8	22.2	15	7.1	5.4	23.4	19.8	28.1	12.3	10.7	5.8	
FP2	27.7	21.9	22.7	11.9	7.9	7.9	26.9	21.1	22.4	12.3	10.8	6.5	
F4	19.1	17.3	20.8	9.7	10.6	22.5	23.7	12.8	22.9	10	11.9	18.8	
C4	24.7	23.5	22.9	15.8	7.1	6	25.9	20.6	27.5	12	8.9	5.1	
P4	25.5	20.4	20.6	14.6	9.9	9	24.3	20.2	23.5	13.1	10.7	8.2	
O2	13.2	8.1	10.8	15.2	20.2	32.5	14.5	9.9	8.6	21.2	16.9	29	
F8	26.1	18.2	20.5	12.8	10.1	12.3	32.5	20.2	20.2	10.1	10.3	6.7	
T4	22.5	18.1	17.1	19.4	13.6	9.2	19.3	19.9	17.2	10.4	16.3	16.9	
T6	20	14	15.4	14.9	16.5	19.2	22.7	21.2	15.5	14.2	14.4	12	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.6	20	19.1	12.9	10	12.4	32.9	20.1	20.6	12.2	8.4	5.9	
T3	17.6	16.9	18.9	12.6	12.8	21.2	24	20.4	21.8	13.9	10.6	9.2	
T5	24	18.1	20.9	15.4	13.6	8.2	21.9	21.5	21	14.3	11.8	9.5	
FP1	25.6	17.4	17.6	10.6	10.1	18.8	29	21.9	23.7	11.7	8.4	5.4	
F3	19.3	18.4	21.4	11.1	13.7	16	22.7	21.8	24.4	11	11.9	8.2	
C3	25.1	19.3	24.5	16.9	9.3	4.9	21.9	26.7	22.8	13.8	9.6	5.2	
P3	25.4	19.3	23	17.3	10.3	4.7	23	25.7	21.2	15.1	10.1	5.1	
O1	27.6	19.4	19	15.7	10.6	7.7	19.5	23.3	17.6	12.6	14	13	
FZ	26	23.6	26.3	12.7	7.8	3.5	23.2	25.3	30.1	11.7	6.7	3.1	
CZ	25.8	23.7	29.7	11.6	6.3	2.9	21.9	24.4	30	12.6	7.3	3.7	
PZ	28.1	19.8	21.8	17.6	9.1	3.7	24.2	27.7	20.6	14	8.9	4.5	
FP2	26.3	18.4	21	13.7	9.4	11.2	29.5	21.2	23.8	11.7	8.1	5.8	
F4	19.4	17.5	17.6	12	11.8	21.6	20.2	18.5	22.5	10.2	11.1	17.5	
C4	24.8	21	24	16.6	9	4.7	19.6	23.5	26	16.6	9.2	5.1	
P4	26.4	21.2	19.7	18.3	9.8	4.7	23.7	23.6	20.9	14.3	10.4	7.2	
O2	20	17.2	16.8	14.7	16.8	14.5	9.7	9.4	9.3	16.2	23	32.4	
F8	28.4	20.9	19.2	12.5	8.6	10.5	37.4	20.7	18	8.8	7.7	7.5	
T4	19.7	17.1	15.6	11.6	14.5	21.4	28.4	17.8	20.8	16	10.6	6.5	
T6	21.3	20.7	19.4	15.1	14.7	8.7	26	19.2	19.6	12.7	12.2	10.3	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.1	27	14.9	8.6	8.4	11	33.8	24.5	13.1	8.4	9.1	11.3	
T3	17.9	26.5	13.2	8	14.5	19.8	26.7	20.6	14.9	10.3	12.5	15	
T5	22.6	27.6	16.4	11	10.8	11.7	27.9	21.8	23.6	12.4	8.2	6.1	
FP1	20.4	25.5	16.3	9.4	12.1	16.3	31.3	25.3	18.7	10.4	7.7	6.6	
F3	18.2	34	23	11.2	6.8	6.7	25.7	27.6	21.9	11.8	8	5	
C3	21.8	25.3	18.7	24.1	5.7	4.5	23.8	22.5	21.6	21	7.2	4.2	
P3	28.8	27.6	19.4	13.2	7.4	3.6	27.2	23.6	25	12.8	7.6	3.8	
O1	27.3	24.5	19.1	13.6	9.3	6.2	20.8	20.1	27.5	15.3	9.1	7.2	
FZ	22.4	30.1	25.1	12.2	6	4.2	25.8	26.9	25.5	11.5	7.1	3.3	
CZ	28.4	27.6	18.8	16.7	5.5	2.9	27.6	24.5	25.1	12.5	7.2	3.2	
PZ	31.8	26.1	20.4	11.8	7	2.8	26	24.1	27.8	11.6	7.4	3.2	
FP2	20.4	21.8	15.8	9.7	12.8	19.6	31.8	21.4	17.8	8.7	9.5	10.7	
F4	21.7	28.5	25.2	10.4	7.4	6.9	29.3	26.8	22.4	9.7	6.7	5.1	
C4	30	26.5	18.2	15.2	5.7	4.3	25.3	22.4	27.2	13.4	8	3.6	
P4	37.5	25.5	17.8	9.8	6	3.4	23.2	21.5	31.4	11.2	9.2	3.4	
O2	33.2	22.7	20.7	10.4	8.4	4.5	21	20	30.6	15.2	8.7	4.6	
F8	23.5	28.5	18.7	9.8	8.9	10.6	36.3	20.4	18.1	7.5	7.5	10.2	
T4	20.5	24.7	15.3	9.4	12.1	18.1	28	21.6	22.6	11.2	7.7	8.8	
T8	27.2	25.2	17.7	9	10.9	10	20.9	23.4	27.2	14	9.4	5.1	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	19	17.7	19.9	10.9	11.7	20.8	39.9	20.3	14.6	6.7	8.3	10.2	
T3	16.6	19	23.2	10.8	13.3	17.2	26.6	23.1	15.4	10	12.9	12	
T5	20.2	21.6	22.6	14.5	12.2	9	31.1	26.6	19	10.6	6.9	5.7	
FP1	25.8	23.8	25	9.9	7	8.4	42.1	25.2	14.6	8.8	5.2	4.1	
F3	21.5	24.9	28.7	13.3	6.3	5.2	36.8	23.1	18.7	9.8	6.1	5.6	
C3	21.8	21.3	28.6	18.5	5.8	3.9	26	20.4	14.4	30.3	4.9	3.9	
P3	24.5	21.3	25.4	16	8.5	4.2	34.4	25.3	18.3	13.4	5.1	3.6	
O1	22.5	23.2	21.9	13.4	11.8	7.2	28.8	24.3	20.4	10.6	8.4	7.6	
FZ	28.7	24.8	27.6	10.3	5.2	3.4	36.2	24.5	19.5	10	6	3.9	
CZ	26.6	21.6	24	19.8	5	3.1	33.4	27.2	16.4	15.1	4.8	3.2	
PZ	24.7	20.4	26.1	17.2	8	3.5	35.6	22.5	19.7	12.7	6.2	3.2	
FP2	26.3	23.8	25.1	10.1	6.7	6	39.8	27.3	13	8.5	6.5	4.8	
F4	27	24.3	26.1	11.1	6.5	5.1	35.1	29.2	15.9	9.2	6.5	4.1	
C4	23.8	20.9	23.8	20.2	7.1	4.2	27.7	25.3	16.2	21	5.9	3.9	
P4	27.3	19.8	24.8	15.1	9	4	34.1	20	20.5	14.6	7	3.7	
O2	25.6	19.8	22.8	12.9	11.5	7.5	30.4	23.9	23.5	10.2	7.4	4.7	
F8	27.7	21.1	23.4	11	8	8.9	38.4	28.9	13.1	6.9	5.9	6.7	
T4	26.3	23.8	18.7	13.3	9.5	8.3	29.1	24.9	19.2	10.5	8.4	7.9	
T6	29.9	17.9	21.6	12.5	11.1	7.1	30.2	22.6	20.7	10.8	9	6.7	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	21.8	12.2	12.5	7.2	15.1	31.1	24.9	15.8	16.9	9	11.3	22.2	
T3	16.8	14.7	16.8	9	15.7	27.1	19.2	20	17.4	9.3	14.7	19.4	
T5	23.4	19.1	24.8	13.5	10.9	8.4	26.8	25.4	18.6	10	11.3	8	
FP1	21	16.6	12.4	7.1	12.1	30.9	27.2	19.4	20.4	9.8	10.2	13.1	
F3	26.6	23.6	22.9	9.7	8.1	9.2	23.7	27.4	23.5	11.1	7.8	6.4	
C3	20	18.4	20	30.7	6.2	4.6	24.7	27.6	25.3	10.7	7.7	4.1	
P3	26.7	21.9	24	14.9	9.1	3.4	28.7	24.6	24.5	10	8.4	3.8	
O1	27.2	24.3	22.7	13.7	8	4.2	24.7	19.8	21.6	13.3	11.4	9.1	
FZ	29.6	23.5	26	10.8	5.9	4.3	26.9	25.3	25.8	11.4	6.3	4.3	
CZ	23.5	21.1	29	16.3	6.8	3.4	28.5	27.6	23.2	11.7	5.8	3.2	
PZ	28.2	22.2	21.2	16.8	8.9	2.8	31	24.3	23.2	10.8	7.6	3.1	
FP2	21.5	17.7	14.1	7.1	12.2	27.4	27.1	19.2	20	9.5	11	13.2	
F4	27.3	25.6	23.6	9.2	7.3	7	25.8	27.5	23.4	10.4	6.9	6	
C4	25.4	20.2	27.9	16.3	6.3	3.8	24.3	26.2	22.6	15.1	7.7	4.1	
P4	27	21.9	25.2	14.9	8.1	2.9	28.6	21.4	26.1	11.3	9	3.6	
O2	25.7	25.1	25.9	12.4	7.5	3.3	25.9	19.2	24.2	13.3	10.8	6.6	
F8	28.7	21.2	19.6	8.3	9.6	12.6	28.6	22.4	20.6	8.1	8.8	11.4	
T4	24.5	24.6	21.4	9.9	9.9	9.6	25.4	21.3	19.5	11.1	9.7	13.1	
T6	25.1	23.5	25.3	13.5	8.1	4.6	30.2	20.2	22.6	11	10.2	5.8	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.1	20.9	19.2	14.7	8.4	7.8	38.5	24.4	17.1	10.1	6	4	
T3	20.6	19.1	26.5	15.3	10.3	8.2	30.1	22.2	23.1	11.8	7.3	5.5	
T5	19.3	19	27.4	20.6	8.9	4.8	21.4	22.8	28.7	13.4	7.5	6.3	
FP1	20.8	19.8	21.6	13.9	9.5	14.3	23.2	23.2	26.5	14.1	7.9	5.2	
F3	18.1	20.5	25.3	17.3	8.9	9.9	26.1	22.8	21.8	15.6	8.1	5.6	
C3	15.8	17.5	33.3	25.4	5.2	2.7	21.9	19.8	29.3	20.8	5.3	2.8	
P3	15.6	14.6	27.9	35.4	4.6	1.9	17.1	24.4	32	17.3	5.9	3.4	
O1	14.1	18.1	28.5	25.4	8.1	5.8	9.5	18.3	24.2	15.4	11.7	20.9	
FZ	19.4	22.7	30.1	19	6.4	2.4	25.5	25.4	24.7	16.1	5.8	2.5	
CZ	14.1	17.7	34.6	28.3	3.8	1.5	19.7	21.4	29.1	23.8	4	2	
PZ	12.6	13.4	24	44.6	4.2	1.3	17.1	25.6	25.6	24.3	5.1	2.3	
FP2	14.5	14.2	17.4	11	13.8	29.1	26.1	20.4	24.2	12	8.9	8.4	
F4	19.7	22.7	27.5	18.5	7.9	3.7	26.4	24.8	23.1	15.8	6.6	3.3	
C4	15.7	15.2	27.7	35.4	4.2	1.7	25.2	20.5	25.9	20.6	5.3	2.5	
P4	15.3	15.2	21.9	41.7	4.5	1.5	19	24.4	29.2	20.7	4.6	2.1	
O2	12.4	14.7	24	28.6	9.3	11	12.2	20.5	26.3	12	10.4	18.5	
F8	22	19.2	21.1	17.6	10.8	9.3	29.6	20.4	21.6	13.8	9	5.6	
T4	13.1	10.1	11.7	14.8	26.1	24.3	17.3	17	16.5	11.2	16.9	21.1	
T6	13.3	14	23	37.2	6.5	6	15.7	19.7	34.4	14.6	7.9	7.6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.3	30	22.1	8.3	6.3	5	38.2	20.5	18.5	9.7	8.7	6.3	
T3	20.7	23.7	26.6	14.8	8.8	5.5	29.9	24.3	25.7	7.3	6.8	6.2	
T5	18.7	24.4	24.1	12	10.1	10.8	25.8	19.4	22.3	12.4	10.3	9.7	
FP1	24.8	26.4	26.1	10.2	8.1	4.3	34.3	18.5	21.1	9.7	7.9	8.5	
F3	20.1	26.6	26.1	12.2	9.9	5.1	27.9	18.2	20	13.6	12.2	8.1	
C3	24.7	21.9	26.9	16.9	6.2	3.4	31.5	22.8	20.8	15.3	5.4	4.2	
P3	26.5	27.2	23.1	12.3	6.5	4.3	26.3	21	20.8	18.3	7.6	6.1	
O1	9.8	9.9	10.8	8.5	21.1	39.9	10.5	12.3	12.2	8.5	19	37.4	
FZ	14.3	29.1	34.2	12.2	7	3.2	26.2	22.2	28.5	12.9	7.1	3.2	
CZ	26.4	19.7	28	19	4.5	2.3	24.3	20.2	27.8	20.4	4.5	2.8	
PZ	32.6	22.2	20.2	17.1	5.1	2.8	24.8	23.6	19.6	19.3	7.9	4.9	
FP2	26.4	20.5	23.4	11.4	9.4	8.8	33.3	15.5	20.7	10.2	9	11.2	
F4	21.2	25.5	26.9	14.1	8.4	4	23.3	26.1	26.2	13.3	7.1	4	
C4	25.3	21.4	25.3	18.7	6	3.4	24.9	21.8	26.1	18.1	6	3	
P4	23.8	20.3	26.2	19.6	6.7	3.4	27.1	26.5	21.2	14.7	6.8	4	
O2	14.8	17.6	20.3	15	13.3	19.1	16	23.4	16.3	11.5	12.7	20.1	
F8	27.8	23.8	20.1	12.7	9.7	6	30.2	20.7	23.8	11.4	7.9	6.1	
T4	21.3	18.9	22.4	14.8	11.8	10.9	16	19	14.1	10.3	16.5	24.2	
T6	17.6	20	22.3	20.9	10.6	8.5	24	26.2	19.4	8.8	11.8	9.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	23.3	20.6	23.7	14.9	9.5	8	40.7	20	17.4	9.2	7.5	5.2	
T3	22.4	19.2	22.6	15.4	10.1	10.4	33.7	21	23	9.5	7	5.9	
T5	20.6	15.8	26.2	22.8	8.3	6.2	26.6	24.5	18.9	12.7	8.6	8.7	
FP1	21.4	19.5	24.8	13.7	8	12.5	41.4	22.7	15	9.7	6.3	4.8	
F3	19.1	19.4	29	14.4	9.1	9	34.5	19.8	18.4	12.9	8.6	5.9	
C3	20.4	18.8	30.3	22.2	5.3	2.9	29.5	20.9	21.2	18.4	6.1	3.8	
P3	18.7	12.4	25.7	36	5.1	2	25.2	28.5	20.5	15.9	6.1	3.7	
O1	13.1	13.3	18.9	22.5	14	18.3	13.6	20.2	16.8	11.9	15.1	22.4	
FZ	23.5	22.8	28.2	16.1	7.2	2.4	30.6	26.3	20.5	13.9	6.1	2.7	
CZ	19.5	16.2	33.2	25.4	4.2	1.6	29.3	26.3	21.6	15.9	4.7	2.1	
PZ	18.7	13.4	21.5	41.1	4	1.3	21.5	29.6	24.8	16.5	5.2	2.3	
FP2	19.8	15.1	22.3	12.8	9.1	20.9	38.3	22.8	16.1	10.7	6.6	5.5	
F4	23.2	23.3	25.9	16.4	8	3.2	33.1	24.1	20.4	13.5	6	2.9	
C4	17.5	14.9	29.8	30.7	5.1	2	27	24.1	25.3	15.1	5.6	2.8	
P4	17.8	16.3	20.5	39.5	4.5	1.5	21.3	26.9	27.3	16.7	5.4	2.3	
O2	16	15.9	22.8	28.2	8.3	8.9	18.2	20.8	20.6	13.6	11.7	15.4	
F8	21	19.5	22.4	16.4	10.7	10	30.1	21.9	22	13.1	7.8	5.2	
T4	9	8.7	10.1	9.1	17.7	45.3	20.7	14.3	12.6	9	18	25.4	
T6	13.4	14.5	24.3	34.7	6.5	6.6	22.6	20.9	23.7	13.6	9.7	9.6	

01X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.6	15.4	13.5	13	12.8	17.6	40.9	19.6	14.1	8.1	9.8	7.5	
T3	17.9	13.7	13.3	13.9	15.8	25.4	23.1	15.3	15.3	10.7	16.9	18.7	
T5	24.5	14.4	12.8	21	13.9	13.3	22.9	17.7	19.4	13.9	15.4	10.6	
FP1	22.7	19.1	14	13.2	16.3	14.6	33.2	21.9	17.1	8.7	12.2	6.8	
F3	22.9	17.2	18.7	16	13.7	11.5	26.9	22.3	21.5	9.6	12.7	7	
C3	19.5	14.7	14.6	28.8	13.5	8.9	22.3	17.3	20.7	21.7	11.6	6.4	
P3	27.8	15.9	13.3	26.4	11.3	5.2	28.9	17.8	20.2	16.7	11.4	5	
O1	19.6	12.3	11.7	37.1	11.7	7.6	22.4	18	19.5	15.9	13.2	11.1	
FZ	24.3	19.9	21.6	16.4	12	5.8	24	22.3	25	10.6	13	5	
CZ	20.1	19.8	24.2	22.9	8.5	4.4	21.2	19.5	26.3	19.2	9.8	4	
PZ	23.3	16.4	16	31.1	9.3	3.9	25.7	18.8	20.5	20.6	10.3	4.3	
FP2	24.9	22.5	14	12.6	16.1	10	31.8	21	17.5	8.8	13.3	7.5	
F4	22.2	19.4	20.8	16.1	12.6	8.9	24.3	19.9	22.2	11.4	13.7	8.4	
C4	17.8	17.2	17.7	28.9	11.4	7.1	18.1	15.5	19.8	27.4	12.2	7.1	
P4	27	16.6	14.1	29	9.5	3.9	30.7	19.5	18.4	15.1	11.5	4.9	
O2	18.9	12.6	10.2	38.9	11.3	8.1	24.3	18.3	16.1	14.1	14.5	12.6	
F8	26.7	19.6	15.6	13.8	14.6	9.7	40.7	19.7	14.4	8.8	9.8	6.5	
T4	11.3	6.8	6	8.3	27	40.7	17.7	11.1	8.3	8.1	28.7	26.3	
T6	27	14.1	11.7	26.1	12	9.1	26.2	18.1	17.3	13.5	14.3	9.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.1	18.2	18.3	11.3	12.8	9.3	43.5	21.7	12.1	5.4	9.6	7.6	
T3	23.3	16.8	19	11.8	15.7	13.4	34.7	14.3	14.3	9.9	13.9	12.9	
T5	22.8	19.1	20.2	11.2	15.2	11.4	29.9	20.5	20.6	10	11.1	7.7	
FP1	32.6	19.4	14.7	8.4	11.7	13.2	39.6	28.8	14	6.2	7.7	3.6	
F3	25.3	22.2	22.3	10.7	11.4	8.1	29.7	25.7	22	9.2	8.4	4.9	
C3	24.1	22.4	23.7	12.6	10.1	7	23.1	16.2	25.5	20.2	8.9	6.1	
P3	26.7	23.2	20.8	12.2	10.7	6.4	24.1	20.7	27.2	13.9	8.8	5.3	
O1	22.4	18.6	17.2	12.7	14.2	14.9	23.1	19.9	26.3	10.2	10.9	9.6	
FZ	21.7	23.1	25.1	12.3	10.8	7	26.4	25.9	25.3	10	8.2	4.1	
CZ	23	24.9	27	13.8	6.5	4.7	19.5	21.3	32.3	14.7	8.3	3.9	
PZ	27.2	23.7	21	14.7	8.3	5.2	23.6	25.1	26.3	13.3	8	3.8	
FP2	32.8	22	15.1	9.7	12.3	8.1	40.3	26.4	14	7	7.7	4.6	
F4	22.1	22.3	21.6	12.4	11.4	10.2	26.6	25.1	22.4	10.4	9.4	6.1	
C4	20.5	18.2	17.9	27.9	8	7.4	21.8	23.5	21.9	17.7	9.2	5.9	
P4	28.4	24.4	18.1	12.6	10	6.5	27.2	28.1	20.4	10.8	9.2	4.2	
O2	20.4	15.4	13.9	13.7	15.5	21	24.9	21.5	22.4	9.9	11.3	10	
F8	31.9	19.4	15.6	10.1	13.5	9.5	40.8	18.8	13.8	8.8	8.8	9.1	
T4	13.5	9.5	7	7.8	29.2	33.1	22.1	12.8	7	7.8	25	25.4	
T6	27.2	19	13.2	11.5	15.9	13.2	33.7	24.3	11.8	9.2	14	6.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	35.7	19	15.6	9.4	11.5	8.9	42.9	14	15.8	9.5	10.7	7.1	
T3	21.9	20.2	12.6	12.1	14.5	18.6	31.4	19.5	18.7	12.3	12.1	6	
T5	29.4	18.5	14.7	15.3	13.5	8.6	29.7	20.6	19.4	11.5	12.5	6.4	
FP1	34.5	21.4	17	10.4	10.9	5.8	43.8	15.2	16.2	7.4	9.5	7.9	
F3	24.4	19.6	25.2	12.9	11.4	6.5	34.7	17.6	20.9	8.8	11.7	6.4	
C3	23	18.2	24.3	18.1	10.4	6.1	28.7	21.4	22.2	13.8	8.8	5.2	
P3	29.8	16.2	18.2	21.1	10.6	4.1	31.1	21.7	19.9	13.1	9.7	4.6	
O1	30.4	15.1	13.5	23.3	11	6.7	23.8	17.9	17.5	11.7	14.3	14.8	
FZ	25.7	19.8	24.7	12.5	11.2	6.1	28.4	18.3	25.6	10.3	11.6	5.8	
CZ	26.7	19.2	26.2	17.9	6.8	3.2	24.6	22.5	24.9	16.5	7.6	3.9	
PZ	30.8	14.6	18.8	23.4	9.3	3.1	28.3	21.9	19.8	16.9	8.7	4.3	
FP2	33.7	20	17.7	9.7	13.8	5	41.9	16.9	15.8	7.5	10.4	7.8	
F4	29.5	17.9	21.9	11	13.2	6.4	29.4	19.2	21.8	11.2	11.2	7.2	
C4	31.7	17.9	20.4	15.6	9.6	4.9	23.3	15.7	15.3	31.7	8.3	5.7	
P4	34	16.1	15.6	20.4	10.4	3.4	26.8	22.5	19.5	14.8	10.5	5.8	
O2	28.7	12.6	14.3	25.8	12.2	6.4	21.2	16.3	15.9	13.4	16.7	16.5	
F8	38	19	14.5	9.7	12.5	6.3	34.4	18.7	16.9	10.2	11.1	8.7	
T4	20.7	12	8.9	8.6	18.3	31.4	18.2	13.1	9.2	8.3	27.3	23.8	
T6	29	16.4	14.4	18.7	14.5	7	22.4	18.7	18.4	12.8	17.1	10.7	

02X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.8	24.8	15.8	11	8.1	7.5	38.9	21.5	16.3	9.2	8	6.1	
T3	23.5	18.9	13	9.2	14.6	20.8	27.7	20.2	13.8	10.2	11.2	16.9	
T5	27.8	23.4	17.9	13.6	6.6	10.7	23.6	21.9	15.6	10.5	11.5	16.9	
FP1	29.1	24.5	16.6	10.4	10.4	9	33	22.4	16.8	11.3	9.6	7	
F3	25.5	29	20.4	12	7	6.1	29	24.3	18.5	12.3	9.3	6.6	
C3	28	25.3	21.1	14.8	5.1	5.8	22.7	25.3	19.1	21.2	5.7	6	
P3	33	24.9	16.2	14	4.5	7.3	24.5	25.1	18.2	14.9	7.6	9.6	
O1	33.4	23.5	16.7	15.2	5.7	5.5	25.1	19.6	16.5	12.6	11.8	14.4	
FZ	29.2	28.5	21.2	10.8	6.2	4.1	31.5	23.9	19.3	12.7	7.8	4.8	
CZ	30.5	27.7	22.1	12.7	4	3	28	26.3	21.4	15.5	5.2	3.5	
PZ	37.7	27.6	14.9	13.7	3.4	2.7	30.7	26.8	17.7	14.4	6.1	4.3	
FP2	28.7	22.1	17.8	10.3	9.1	12	36.6	21.6	16	10.4	8.4	7	
F4	29.4	27	20.6	11.2	6.4	5.3	31.6	23.9	19	12.1	7.5	5.9	
C4	31.5	27.4	17.2	14.5	4.5	4.9	27.9	24.6	18.8	16.7	6.3	5.8	
P4	37.3	27.1	15.3	12.5	3.9	3.9	31	26	17.2	13.9	6.1	5.8	
O2	37	23	14	17.1	5	3.9	28.4	19.7	16.6	13.9	10.4	11	
F8	28.9	22.5	17	12.3	8.6	10.7	35.5	22	14.2	10.7	8.4	9.2	
T4	27.5	21.8	14.7	11.9	10.2	13.9	26.9	20.2	13.7	13.8	10.3	15	
T6	36.8	24.5	15.3	12.9	5.5	5.1	30.7	25.3	15.8	13.7	7.1	7.5	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.4	20.9	16	14.6	8.3	7.7	33.2	29	15.4	9.1	7	6.4	
T3	20.3	14.3	12.3	11.7	16.2	25.3	26.7	17.3	15.3	9.3	11.5	19.9	
T5	19.9	14.9	11.4	12.5	16.4	24.9	25.6	21.1	15.5	14.1	10.4	13.3	
FP1	29.7	20.6	18.1	13.7	8.4	9.5	31.8	29.4	15.7	10.4	6.4	6.2	
F3	26.4	23.1	22.5	14.6	7.6	5.8	30.1	28.4	18.8	10.7	6.8	5.2	
C3	22.2	22.1	24.9	18.8	6.6	5.4	26.4	23.7	18.4	21.2	5.4	4.9	
P3	25	19.8	19	18.5	8.1	9.6	33.2	22.4	16.5	15.6	5.7	6.7	
O1	22.4	21.4	16.4	13.1	11.4	15.3	28.2	22.8	18.4	11	9	10.7	
FZ	27.9	23.1	25.6	13.2	6.3	3.9	28.3	28.6	21	11.7	6.2	4.2	
CZ	24.2	19.4	24.3	24.1	4.8	3.2	27.9	26.4	20	18.2	4.3	3.2	
PZ	25.1	22.8	19.8	20.2	6.9	5.2	37.7	24.5	15.2	14.6	4.5	3.5	
FP2	29.4	19.8	19	13.4	8.2	10.1	30.6	27.5	16.1	9.9	6.7	9.1	
F4	25.7	22.9	24.6	14.5	6.8	5.6	28	29.6	19.9	10.6	6.3	5.7	
C4	19.3	19.7	24.8	24.9	6.1	5.2	30.4	25.7	18.2	15.3	4.9	5.5	
P4	25.4	23.7	18.9	18.1	6.9	7	35.5	24.9	15.6	12.9	5.1	6	
O2	24.2	23	15.6	12.7	10.7	13.9	29.9	25.6	19.3	10.1	7.2	7.9	
F8	20.9	20.8	19.4	13.7	11.1	14.1	30.6	24	14.4	11.1	8.3	11.6	
T4	14.8	12.6	13.1	11.4	13.5	34.5	26.2	21.7	12.3	9.2	11.7	18.9	
T6	24	20.1	13.7	12.7	13.5	16.1	30.4	28.8	14.9	10.1	7.2	8.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	37.8	22.1	13.6	11.4	7.5	7.6	29.8	21	17.3	13.8	8.9	9.3	
T3	25.5	18.6	13.2	8.8	13	20.9	27.2	18.4	14.3	13.7	11	15.5	
T5	23.1	22.8	17.8	16.8	8.4	11.1	25.7	19.5	16.7	12.4	12	13.7	
FP1	30.1	20.3	14.6	14.2	9.2	11.7	24.1	18.5	17.3	13.1	11.9	15	
F3	32	24.7	16.8	13.7	6.7	6	24.9	23.5	23.3	14	8.2	6	
C3	21.6	25.9	18.2	22.8	5.8	5.7	27	24.9	23.3	15.2	4.7	4.9	
P3	22.5	26	15.6	21.4	6.5	7.9	29.5	24.7	20	12.8	5.7	7.3	
O1	27.2	23.6	18.3	14.3	8.4	8.2	25	20.4	20.8	10.3	10.3	13.2	
FZ	32	23.3	19.4	15	6.1	4.2	25.1	23.2	26.8	14.5	6.6	3.8	
CZ	25.1	27.6	21.7	15.8	6	3.8	23.3	21.9	28	19.3	4.4	3.2	
PZ	28.1	26.6	15.4	19.8	6.2	3.8	33.2	23.6	21.7	13.4	4.3	3.8	
FP2	31.6	20.1	15.3	13.8	7.2	11.9	23.9	20.2	16.5	12.4	10.3	16.7	
F4	33.7	22.8	17.7	14	6.2	5.7	25.2	23.3	23.5	14.6	7.6	5.8	
C4	24.9	26.4	18.1	18.6	5.8	6.2	28.2	20.8	22.9	17.5	5.6	5	
P4	29.9	25.9	16	16.5	6.2	5.6	32.8	23.3	20.6	12.5	5	5.8	
O2	28.5	25.1	18.3	14.7	7	6.5	29.1	20.4	19.8	10.8	8.4	11.5	
F8	33.4	20.2	14.6	11.5	9	11.3	28.9	23	14.5	10.9	10	12.7	
T4	23	19.2	14.3	12.7	10.6	20.2	26.2	17.8	13.7	10.1	11.5	20.6	
T6	27.8	27.9	17.4	13.7	6.5	6.8	28.8	23.5	17.9	11.1	7.4	11.3	

03X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.7	21.1	16.3	16.9	9.1	7.1	27.2	20.8	15.8	14.3	12.3	9.6	
T3	19	16.6	13.6	17.5	14.1	19.1	17.8	19.4	19.4	15.3	15.1	13	
T5	22	19	15.6	30.7	9	3.6	20.6	22.2	18.2	24.5	10	4.5	
FP1	28.7	21.3	17.4	16.7	8.9	6.9	25.6	20.8	16.1	16.1	12.5	8.9	
F3	21.6	24.2	19.5	18.5	11.5	4.7	22	25.6	18.5	15.8	14.3	3.9	
C3	19.1	23.8	18.9	24	10.4	3.8	20	23.4	22	20.2	11	3.4	
P3	22.1	19	17.5	31.8	6.9	2.6	18.6	22.7	19.7	28.5	7.7	2.8	
O1	20.9	13.5	12	44.1	7	2.4	15.6	20.4	19.3	32.8	8	3.9	
FZ	20.7	24.6	19.3	18.9	12.2	4.3	23.4	26.4	18.8	14.5	13.6	3.2	
CZ	18.3	22.8	21.2	26.2	8.4	3.1	19.9	23.3	24.2	20.5	9.4	2.6	
PZ	19.5	19.5	16.3	36.9	5.7	2.2	16.3	20.8	19.2	35	6.7	2.1	
FP2	30.2	20.4	15.2	15.7	9.8	8.7	23.3	19.2	15	14.6	15.3	12.6	
F4	22	23	17.5	19.9	12.9	4.8	23.6	24.7	18.8	14.6	13.9	4.4	
C4	18.9	20.9	18.4	28.7	9.6	3.4	21.9	21.9	21.6	21	10.8	2.9	
P4	19.2	19.8	14.4	37.8	6.4	2.3	17.6	19	18.9	34.5	7.7	2.4	
O2	19.2	18	13.1	38.7	7.3	3.8	15.2	21.8	19.3	28.7	8.6	6.5	
F8	30.5	20.1	13.6	19.3	9.9	6.8	26	19.9	17.4	13.3	11.9	11.6	
T4	19.1	17.9	13.6	24.6	12.2	12.6	14.4	15.8	15.5	15.4	19.1	19.7	
T6	15.7	14.5	12.5	46.9	7.1	3.3	16.6	16.6	17.8	36.1	8.3	4.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27	19.5	16.5	15.2	11.4	10.4	37.6	20.3	16.5	10.1	7.6	7.8	
T3	16.8	18	15.3	14.3	17.9	19.7	21	21.8	15.1	9	13.2	19.9	
T5	20.1	22.3	18.2	20.2	12	7.1	30	25.4	17.8	12.7	9.2	5	
FP1	31.1	20.8	17	17.8	8.3	4.9	33	24.6	16.5	8.7	7.1	10.1	
F3	20	25.6	18.8	18.9	11.9	4.7	29.2	26.4	21.4	10.5	7.7	4.7	
C3	19.2	26	22.4	18.7	9.2	4.5	23.6	26.3	25.3	11.5	9.2	4.1	
P3	19.9	24	21.9	20.1	9.9	4.3	29.7	26	20	13.4	7.6	3.4	
O1	18.7	16.7	15.1	32	10.1	7.4	28.1	22	14	22.2	9.1	4.7	
FZ	20.5	25.8	20.3	18.5	10.8	4.1	24.5	29.1	23.5	10.1	8.2	4.5	
CZ	20.1	23.6	25.1	20.6	7.1	3.5	21.7	28	28.2	11.1	7.1	3.9	
PZ	19.9	20.4	20.7	28.7	8.4	3.9	31.3	28.3	18	13.5	5.6	3.3	
FP2	33.2	21.4	14.4	16.4	8.2	6.4	33.1	26	13.9	7.9	8.5	10.7	
F4	23.9	24.1	19.1	18	9.8	5.1	28.2	29.2	20.2	8.9	7.8	5.7	
C4	20.3	22.4	22.9	22.4	8	4.1	27.4	26.7	23.4	11.5	6.8	4.1	
P4	21.1	19.8	19.2	26.9	8.3	4.7	31.3	30.3	16.9	13.1	5.1	3.3	
O2	16.7	13.4	12.9	33.6	10.6	12.8	30.9	25	14.9	15.9	6.8	6.5	
F8	24.5	18.4	15.2	17.6	12.8	13.5	40	26.3	12.4	7.3	6.6	7.4	
T4	16.2	15.1	12.3	19.6	17.5	19.4	26	24.2	12.2	8.9	12.8	15.9	
T6	17.6	15.6	13.7	28.9	12	12.2	27.3	31	14.7	15.7	6.6	4.7	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.7	17.8	11.7	11.9	14.6	17.4	26.3	18.8	14.5	17.4	12.7	10.3	
T3	21.8	16.8	13.4	14.5	17.4	16.2	20.8	23.3	16.1	18.4	13.2	8.2	
T5	25.2	19.2	14.3	28.1	8.7	4.6	21.5	24.8	15.1	21.9	12	4.8	
FP1	30.9	21.6	13.3	11.8	11.4	11	28.9	21.2	15.9	18.4	9.5	6.1	
F3	27.8	23.7	17.6	15.3	11.7	3.8	22.2	26.6	18.1	17.9	11.8	3.4	
C3	24.6	20.9	19.7	19.9	11.1	3.8	19.7	29.6	19.1	18.6	9.8	3.1	
P3	24	18.8	16.3	30.5	7.6	2.8	20.7	25.8	18.4	23.5	6.2	3.4	
O1	21.2	14.6	12.4	40.7	7.5	3.6	17.7	19.6	15.7	29.7	10	7.2	
FZ	25.5	25.1	18.1	15.3	12.6	3.5	21.9	27.4	19	17.1	11.3	3.3	
CZ	23.6	20.6	24	20.5	8.5	2.8	18.4	26.8	23.5	18.9	9.3	3	
PZ	22.5	17	17.7	33.8	6.7	2.3	20.8	23.5	17.9	27.1	7.6	3.2	
FP2	26.5	17.7	11.2	10	17.2	17.3	24.3	18.8	14.3	18.3	13.4	10.9	
F4	23.3	24.5	16.9	15.6	14.2	5.5	21.7	25.9	18.2	18.2	11.7	4.4	
C4	21.7	21.1	20.9	23.5	9.7	3.1	21.7	24	19.5	22.1	9.3	3.3	
P4	23	17.5	16.3	34.2	6.5	2.5	23.5	20.2	16.4	27.9	7.9	4	
O2	23.2	17.2	13.6	29.4	9	7.6	17.1	17.9	13.3	27.5	11.2	13.1	
F8	21.7	17.2	12.9	12.8	15.9	19.5	22.9	18.2	14.6	17.3	14.4	12.6	
T4	14.8	13.3	11.7	15.4	22.5	22.4	20.4	19.2	13.3	17	16.7	13.4	
T6	21.2	15.7	13.8	36	8.4	4.9	21	16.3	12.5	32	10	8.2	

04X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.2	33.3	19.1	7.8	7.9	3.7	34.8	27.1	18.4	8.3	6.9	4.4	
T3	28.5	22	15.2	6.2	15.1	13	28.6	27	20.8	10.2	7.5	6	
T5	32.6	28.3	19.6	9.7	7.6	2.3	29.1	28.8	21.8	9.7	6.6	3.9	
FP1	29.4	33.3	18.5	8.4	6.7	3.7	39.2	26.6	17.8	5.7	6.3	4.4	
F3	20.3	33.4	25.7	9.4	7.7	3.4	25.8	29.5	25.8	8.5	6.5	3.8	
C3	25.3	29.1	26.3	7.6	9.3	2.5	26.1	27	26.5	9.5	8	2.9	
P3	23.5	30.9	25.8	9.3	8.7	1.8	27.4	27.3	25.9	9.7	7.4	2.4	
O1	31	32.8	15.5	11.4	7.7	1.6	28.6	27.6	19.7	11.9	8	4.2	
FZ	18.9	35.5	27.6	8.5	7	2.5	27	30.9	26.5	7.2	5.8	2.6	
CZ	26.7	31.6	26.6	8	5.6	1.4	26.3	27.7	32.3	7	4.8	1.9	
PZ	26.4	32	24.2	9.5	6.6	1.3	26.8	28.3	26.8	8.7	7.4	2	
FP2	28.7	31.8	19.3	8.2	7.7	4.3	38.2	21.4	17.5	5.9	8.4	8.5	
F4	21.9	34.5	23.7	8.5	8.1	3.3	25.2	30.5	24.1	7.6	7.7	4.9	
C4	24.9	29.1	26.6	8.6	8.7	2.1	25.1	27.6	29.9	7.7	7.4	2.2	
P4	29.6	30.7	20.8	10	7.4	1.6	27.3	26.7	28.2	7.8	8	2.1	
O2	29.8	34.8	15.4	10.3	8.1	1.7	28.2	28.3	20.1	11.7	8.1	3.6	
F8	22.1	35.8	20	9.3	8.1	4.7	33.1	25.8	20.8	7.9	7.2	5.2	
T4	28.1	35.7	18.7	8.1	6	3.4	29.7	29.8	24.3	7.4	6	2.7	
T6	30	33.2	17.8	9.6	7.3	2.1	30.7	28.2	24.7	6.9	7.1	2.4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	39	21.6	19.9	8.6	6	4.8	42.5	27.1	15.5	7	5.6	2.2	
T3	29.2	25.3	22.6	9.4	6.9	6.6	31.4	24	16.2	8.2	11.1	9.1	
T5	26.5	27.1	20.1	8.3	9.5	8.5	31.3	24.9	19	11.2	8.4	5.1	
FP1	37.7	22.8	21.4	8.2	5.3	4.6	44.5	26	16.5	6.3	4.9	1.8	
F3	28.9	26.4	26.8	9.3	6.5	4.2	33	28.1	21.4	8.2	7	2.2	
C3	23.6	25.4	28.7	11.2	7.4	3.7	25.5	28.9	24.7	9.1	9.1	2.7	
P3	23.9	34.4	22.7	9	6.5	3.5	34.9	27.4	19.8	8.4	7	2.6	
O1	26	32.3	17.6	10.2	8	5.9	35.3	24.5	19.5	9.7	7.6	3.3	
FZ	21.9	29.7	31	8.7	5.7	2.9	31.9	30.9	20.3	8.1	6.7	2.1	
CZ	20.3	31.6	32.7	8	5	2.5	29.4	29.7	25.8	7.5	5.8	1.8	
PZ	23.6	35	23.1	9.3	6.2	2.7	36.4	28.8	20.7	6.6	5.6	1.8	
FP2	32.4	19.4	18.8	7.5	9.5	12.5	45.2	24.8	15.9	6.6	5.2	2.3	
F4	22	25.2	27.2	9.3	9.2	7.1	30.9	30	21.3	8.2	7.1	2.6	
C4	21.9	30	28.1	9.1	7.9	2.9	29.1	26.5	27.9	6.8	7.5	2.2	
P4	25.6	30.7	23.2	10.8	6.5	3.2	39.3	28.2	19.3	5.8	5.6	1.9	
O2	25.5	32.7	19	10.1	7.4	5.3	37.8	24.4	19.8	8.9	6.3	2.8	
F8	24.9	24.3	23	9.9	10	7.9	35.3	27.1	17.8	8.9	7	3.9	
T4	27.7	29.1	23.7	8.4	7	4.2	32.5	29.3	18.9	7.9	7.3	4	
T6	26.9	25.7	21.3	10.2	9.4	6.5	39.6	26.1	17.7	6.8	6.1	3.8	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	37.9	24.1	20.4	8.9	5.9	2.9	36.2	29.7	17.8	6.2	5.7	4.4	
T3	30.8	22.8	23.4	9.1	7.2	6.7	31.2	26	17.1	7.4	7.6	10.7	
T5	41	21.2	22.3	7.4	6.2	1.9	31	21.5	17.2	9.9	11.2	9.2	
FP1	40.8	25.1	20	6.4	5.3	2.4	35.7	25.2	21.2	7.2	5.9	4.9	
F3	29.3	28.1	25.7	7.9	6.3	2.6	26.3	30.8	26.7	6.6	6.2	3.4	
C3	27.7	27.9	27.2	7.1	8.1	2	28.6	31.1	24.2	6.5	6.3	3.3	
P3	31.6	25.4	25.5	9	6.8	1.7	32.6	29.9	20.3	9.4	5	2.8	
O1	33.2	26.9	17.9	10.7	7.5	1.8	34.3	25.7	17.3	10.7	5.8	6.1	
FZ	29.2	29	26.8	7.6	5.2	2.2	27.3	30.5	28.9	6	4.9	2.3	
CZ	27.5	28.5	30	6.4	5.7	1.8	32.4	29.7	26.1	6.3	3.5	2	
PZ	28.2	28.2	25.5	9.6	7.2	1.3	32.5	31.9	22.4	6.8	4.1	2.3	
FP2	38.5	25.9	21.5	5.9	5.3	3	33.1	24.4	17.7	7.7	8.3	8.8	
F4	28.7	28.8	25	7.8	6.4	3.3	27.7	31	24.7	6.4	6.4	3.8	
C4	28.8	27	27.1	7.4	7.6	1.9	28.9	31.1	25.7	5.2	6.7	2.4	
P4	31.8	26.9	21.9	9.7	8.2	1.5	35.3	31.5	19.4	6.6	4.6	2.6	
O2	36.5	28.8	16.1	9.2	7.8	1.6	33.3	28.1	18.6	9.4	4.7	5.8	
F8	33.1	27.3	21.7	7.6	6.2	4	34.9	27.2	19.3	8.1	6.7	3.7	
T4	33	33.3	19.9	6.7	5	2.2	37.7	27.9	19.2	6.3	5.5	3.5	
T6	36.1	26.6	18	9.7	7.3	2.1	33.1	26.6	18.9	7.6	7.9	5.9	

05X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.8	18.9	18.6	9.3	12	8.5	28.9	21.3	22.2	8.5	10.2	9	
T3	17.8	13.5	19.7	10.5	19.6	18.8	16.8	14.1	15.1	8.7	21.5	23.7	
T5	24	16.7	22.5	16.1	16.5	4.2	21.1	16.5	29.4	17.4	11.1	4.4	
FP1	27.1	22.5	20.5	11.1	13.3	5.5	21.4	24.7	26.3	9.9	11.4	6.3	
F3	24.5	18.9	26.1	14.4	12.3	3.9	18.4	23.2	31.7	12.3	10.5	3.9	
C3	21.5	15.7	25.8	21.9	12.1	3	16.6	20.9	30.5	19.6	9.4	3.1	
P3	25.5	16.2	22.2	17.9	14.6	3.6	20	16.4	30.5	19.7	9.9	3.5	
O1	12.1	13.2	13.9	19.6	18	23.3	16.8	12	21.4	20.7	14	15	
FZ	25	19.6	25.8	15	11.4	3.2	16.6	22.6	34.1	13.8	9.4	3.4	
CZ	19.2	15.3	28.3	25.1	9.7	2.4	13.7	19.5	35.1	21.7	7.5	2.6	
PZ	22.4	16.3	24.7	23.7	10.3	2.6	17.2	14.2	32.7	26.5	7.3	2.1	
FP2	27.3	23.4	19.2	10.6	13.1	6.4	29.7	22.2	21.7	9	11.2	6.1	
F4	25.5	20.8	24.4	14.1	10.3	4.8	21.3	20.3	29.6	12.6	11.3	4.9	
C4	19.8	14.6	25.1	27.3	10.3	3	16.3	19.5	29.5	20.7	10.3	3.7	
P4	19.5	13	24.2	30.6	9.4	3.3	15.5	14.7	30.9	25.8	9.5	3.6	
O2	10.2	11.2	14.2	20.6	16.9	26.9	10.6	7.7	15.5	19	16.7	30.5	
F8	30.3	23.8	17	9.8	11.3	7.9	31.6	20.5	19.6	8.8	10.7	8.8	
T4	11.8	11	9.8	9.8	21.8	35.9	8.7	7.1	12.1	7.1	19	46.1	
T6	16.9	14.5	25	25.5	13.1	5	15.3	15.5	31.2	18.4	13.3	6.4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.3	22.5	20.6	8.7	12.2	8.7	37	24.2	16.2	6.8	10.3	5.8	
T3	17.5	16.1	25.4	9.6	20.2	11.2	21.5	21.4	19.4	9.5	17.5	10.8	
T5	21	20.7	26.9	12.6	13.3	5.6	29.6	22.8	18.8	10.3	14.3	4.2	
FP1	31.7	19.9	24.6	9.5	10	4.3	32.7	25.8	19.7	7	10.8	4	
F3	23.2	20.7	31.4	9.6	10.9	4.3	25.8	25.2	25.9	8.2	11.3	3.8	
C3	19.1	22.8	28	16.9	10	3.2	24.5	24.3	22.6	14	11.3	3.2	
P3	22.7	21.2	26.3	12.9	12.1	4.8	28.2	24.6	20.5	11.2	12.4	3.1	
O1	10.8	11	12.3	17.9	18.4	29.7	25	25.4	19.6	10	13.7	6.3	
FZ	25.1	19.9	33.2	10.2	8.5	3.1	26.5	26.8	25.1	8.4	10	3.2	
CZ	20.8	24.4	29.8	13.2	8.7	3.1	25.3	26	25.7	11.4	9.2	2.5	
PZ	23.6	22.4	25.6	14.2	10	4.1	28.1	25.1	24.5	11.1	8.7	2.4	
FP2	32.3	21	23.2	9.1	9.9	4.5	34	27.4	17.8	6.9	9.7	4.2	
F4	26.6	19.3	30.4	10.5	8.9	4.3	24.1	28.7	23.5	9.9	9.9	3.8	
C4	19.7	23.2	31	11.9	10.2	4	26.2	21.8	21.4	16.4	11	3.1	
P4	24.3	21.6	24.1	13.1	11.2	5.8	28.4	23.9	22.4	12	10.3	3.1	
O2	10.1	10.5	11.8	17.1	18.3	32.3	21.8	21.9	19.1	10.9	14.5	12	
F8	25.5	21.5	23.7	10.5	10.9	8	34.7	24.7	15.6	7.7	10.1	7.2	
T4	16.7	17	20.3	11.9	19.7	14.4	17.4	13.8	9.6	8	25.6	25.6	
T6	22	19.1	23.2	13.4	15.2	7.1	25.2	18.7	17.9	12.1	18.4	7.8	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.5	20.7	19.4	10.2	10.5	8.8	32.3	22	19.6	8.3	10.1	7.8	
T3	15.1	10.4	12.5	8.9	23.5	29.5	21.1	18.5	21.3	9.2	20	10	
T5	26.4	17.2	21.9	18.3	12.2	3.9	21.5	20.8	24.3	14	13	6.4	
FP1	26.3	24.7	22.2	11.7	9.3	5.9	30.1	20.6	25.1	8.7	10.7	4.7	
F3	24.1	19.8	28.6	14	9.8	3.7	26.5	21.7	27.8	9.9	10	4.1	
C3	22.4	16.5	24.7	24.2	9.4	2.6	22.7	20.7	26.4	17.1	9.2	3.9	
P3	25.9	15.1	22.9	23.4	9.9	2.8	22.7	20.6	24	14.8	11.8	6.1	
O1	17.1	12.8	17.1	20.4	16.2	16.4	10.8	10.9	11.4	17.9	18.4	30.7	
FZ	23.2	19.9	28.5	16.8	8.6	2.9	25.9	21	31.1	9.8	8.6	3.6	
CZ	19.9	14.3	26.5	29.9	7.5	1.9	22.6	21.2	30.6	13.5	8.8	3.3	
PZ	21.5	12.1	24.9	32.6	7.1	1.8	24.9	18.7	26.3	15.5	10	4.6	
FP2	26.4	25.3	21	11.9	9.2	6.3	31.2	19.9	24.1	8.7	11.3	4.9	
F4	23.7	22.2	24.3	16	9.7	4.1	26.5	20.5	29.1	9.6	9.6	4.7	
C4	18.8	15.4	23	29.6	9.9	3.3	24.2	20.9	28.6	12.2	10.3	3.8	
P4	19.8	13.1	22.1	33.3	9.1	2.5	22.6	18.6	25.5	14.2	12	7.1	
O2	14	14.1	14.9	21.1	16.4	19.6	8.7	8	10.4	17.2	18.4	37.4	
F8	30.7	19.9	18.6	12	10.4	8.4	29.3	18.9	23	9.7	10.8	8.3	
T4	11.4	6.9	7.4	8.2	16.6	49.5	22.7	18.9	21.4	11.3	17.9	7.9	
T6	18.5	18.3	21.1	22.4	14.3	5.4	21.4	19.2	23.7	13.5	14.9	7.3	

06X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	49.8	21.2	12.9	8.8	4.8	2.4	49.3	24.1	13.3	7	4	2.3	
T3	27.8	22	15.8	13.3	11	10.2	30.2	24	17.3	11.4	9.1	8.1	
T5	30.7	24.6	14.2	21.5	5.5	3.5	28.7	22.1	20.8	15.2	6.9	6.4	
FP1	42.8	22.7	13.4	11.3	6.2	3.6	46.9	24.6	13.8	7.9	4.5	2.2	
F3	41.1	24.7	15.7	10.7	5.2	2.6	40.7	24.1	16.9	9.6	5.4	3.3	
C3	26.2	19.2	16.5	31.5	4.6	2	35.4	20.9	20.8	15.6	5	2.3	
P3	30.9	25.7	14.6	23.1	4.1	1.6	35.1	21.2	22.6	14.2	4.3	2.6	
O1	24.3	20.1	12.9	25.7	7.8	9.1	22.1	18.2	14.6	16.3	11.8	17	
FZ	36.8	28.2	16	12.8	4.3	1.9	37.8	25.7	20.5	10.1	4	1.8	
CZ	30.1	22.4	21.9	19.4	4.4	1.9	30.2	23.2	26	15.1	3.8	1.7	
PZ	33	22.3	16.8	22.6	3.8	1.4	34	21.8	22.4	16.4	3.7	1.7	
FP2	40.7	21.8	11.7	11.6	7.8	6.3	44.7	24.6	15.4	8.4	4.5	2.4	
F4	39.5	22	13.8	12.1	7.5	5.1	36.1	26	21.2	10	4.5	2.3	
C4	28.5	14.7	16.7	32.9	4.7	2.4	29.8	23.3	23.5	16.3	4.8	2.2	
P4	32.2	22.5	16.1	23.7	4.1	1.5	34.7	23.2	22.2	13.7	4.2	1.9	
O2	29.2	20	15.2	28.2	5.2	2.3	29.3	26.5	17	14.5	6.3	6.4	
F8	42	23.5	10.9	12.9	6.4	4.3	41.9	24	16.6	9.8	5	2.8	
T4	28.3	18.3	13.5	14.4	13.2	12.4	23.3	14	12.1	9.2	21.5	20	
T6	35.1	17.1	18.7	21.8	5.1	2.1	30	21.2	23.4	15.1	6.6	3.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	40.4	24.6	15.2	10.2	6.3	3.3	48.3	24.9	12.9	7.2	4.7	2	
T3	30.3	23.1	18.5	11.2	10	6.8	29.1	25	15.7	11.6	9.8	8.8	
T5	30.6	20.8	15.2	12	11.9	9.5	34.1	20.6	20.7	14	6.5	4.1	
FP1	40.3	23.7	16.9	10.6	5.5	3.1	43.7	25.4	17.2	8	3.8	2	
F3	36.7	21.7	17.8	12.5	6.9	4.3	37.7	22.7	20.5	10.3	5.6	3.2	
C3	30.8	25.3	21.6	14.2	5.2	2.9	36	19.1	19.4	19	4.8	1.8	
P3	34.2	27	17	12.6	5.6	3.5	42.6	20.2	17.8	13.3	4.6	1.6	
O1	23.9	15.7	10.6	17.3	15.6	16.9	36.5	23.9	17	11.9	6.7	3.9	
FZ	37.3	23.1	20	12.5	4.8	2.3	36	22.1	23.2	12	4.8	1.8	
CZ	30.3	23.1	21.7	18.4	4	2.4	39.7	21.6	19.9	13.2	3.9	1.6	
PZ	34.5	26.1	16.1	16.5	4.3	2.4	44	22	17.4	11.1	4.2	1.3	
FP2	40.3	23.7	17.3	10.2	5.7	2.9	42.7	24	17.4	9.5	4.4	2	
F4	37.1	23.4	19.6	11.2	5.6	3	37.1	22.4	20.5	10.8	6	3.1	
C4	29.5	23.7	21.5	16.9	5.2	3.2	36.9	19.3	17.6	18.9	5.2	2.1	
P4	36.9	25.6	15.9	13.5	5	3.1	40.6	22	17.7	13.3	4.8	1.6	
O2	24.2	18.8	10.5	17.3	13.2	16	35.5	25.6	18	12.8	5.8	2.3	
F8	35.1	23.5	18.1	11.8	7.6	4	44.3	21.3	16	10.6	5.1	2.6	
T4	18.9	14	10	9.6	25.6	21.9	30.7	17.5	11.8	10.2	14.7	15.1	
T6	29.1	22.9	13	13.4	12.4	9.2	34.8	22.7	16.5	15.7	7.1	3.1	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	48.6	21.6	12.3	8.4	5.3	3.8	49.6	20	16	7.8	4.4	2.3	
T3	29.5	19.4	11	12.1	12.1	16	47	17	15.6	10.5	6.1	3.8	
T5	22.3	22.3	21.6	23.2	7.5	3	34	22	17.7	16.1	6.1	4.1	
FP1	37.4	13.2	8.3	7.4	11.9	21.8	42.4	20.5	17.3	9.9	5.9	4	
F3	36.2	22.4	14	11.2	8.2	8	37.8	19.7	21.3	9.6	6.9	4.6	
C3	33.9	20.7	14.7	23.5	4.9	2.3	34.2	22.7	20.8	14.7	5.1	2.5	
P3	34.9	24.8	14.2	19.9	4.5	1.7	34.7	25.1	19.9	14	4.2	2.1	
O1	27.4	26.6	16.2	23.5	4.4	2	26.7	25.8	17.9	14.5	8.7	6.4	
FZ	37.6	25.4	15.8	13	5.3	2.8	33.4	24.1	23.5	11.8	5	2.2	
CZ	30.5	24.2	16.7	23.2	3.8	1.6	32.5	20.7	22.2	18	4.6	1.9	
PZ	34.4	21.7	15.2	24.1	3.5	1.1	35.4	26.2	19.1	13.4	4.4	1.6	
FP2	39.4	16.2	11.2	10.6	9.5	13.1	40	23.2	17.1	9.6	6	4.1	
F4	33.1	19.9	14.1	12	11.2	9.7	32.5	23.2	22.8	10.5	6.9	4.2	
C4	33.4	17.5	13.5	29.2	4.3	2.1	32.6	24	20.6	15.6	5.1	2.1	
P4	36	23.8	15.3	20.3	3.5	1.3	35.7	25.6	19.5	11.9	5.1	2.1	
O2	28.8	29.5	15.6	20.3	4.1	1.7	24.9	21.8	16.2	16.9	9.8	10.4	
F8	39.5	21.1	15.3	12.2	7.3	4.6	40	20.7	18.7	9.2	7	4.4	
T4	30.2	15.9	12.4	16.9	9.6	14.9	26.4	16.4	16.9	10.3	15.8	14.1	
T6	32.3	24.8	18.4	17.6	4.9	2.1	31.1	22.2	21.1	12.9	7.8	4.8	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.1	19.7	19.2	15.4	9.8	6.8	27.9	25.3	22.4	8.9	9.8	5.8	
T3	20	13.8	12.9	13.6	10.8	28.9	29.6	23.2	20.2	11.3	9	6.7	
T5	26.5	17.8	18.8	20.4	9.4	7.1	20.9	18.9	23.3	14.2	10.3	12.3	
FP1	29.4	25.2	17.7	15.3	7.7	4.8	32.5	25.3	21.1	8.1	8.7	4.3	
F3	26.1	25.4	21.5	14.4	8.3	4.4	26.1	26.3	24.8	8.9	9.1	4.8	
C3	25.7	22.5	22.4	18.7	7.5	3.2	24.4	24.4	26	11.5	9.8	4	
P3	32.1	17.9	17.7	22.2	7.5	2.5	25.9	23.7	23.6	13.2	9.1	4.5	
O1	26.8	16.6	11.7	34.1	8	2.9	15.7	16.3	23.6	17	11.5	15.8	
FZ	27.2	27.2	21.4	14.5	6.8	3	29.2	26.5	24.8	8.6	7.6	3.3	
CZ	24.5	23.5	23.6	19.4	6.4	2.5	25.4	26.3	25	12.1	7.9	3.4	
PZ	29.4	17.5	19.8	24.9	6.5	2	26.9	24.7	23.8	13.1	8.1	3.4	
FP2	28.6	26	16.7	15.5	8.5	4.8	32.6	24.8	20	8.7	9.2	4.8	
F4	25.5	26.7	19.8	15.5	8.1	4.3	29.7	25.8	22.2	9.1	8.9	4.3	
C4	23.3	24.5	21.7	20.4	7	3.1	25.1	24.8	22.8	13.5	9.6	4.2	
P4	26.3	17.7	20	26.6	7.1	2.3	26.9	24	22.5	14.2	8.9	3.4	
O2	22.7	13.6	11.7	42.8	7	2.2	22.4	20.9	25	15.7	9.1	6.9	
F8	28.2	24.4	16.8	14.4	9.3	6.9	32.8	22.4	18.4	10.1	10	6.2	
T4	22.7	23.4	19.1	18.2	9.4	7.3	25.4	20.7	19	17.4	11.9	5.8	
T6	22.9	15.9	17.3	29.4	8.4	6	23.7	20.8	20.9	19.2	9.2	6.3	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28	22.9	20.4	12.8	8.9	7	39.2	24.6	16.5	8.7	7.3	3.7	
T3	26.9	23.2	14.1	13.9	9.9	12	28.9	17.5	14.7	9.5	10.3	19.1	
T5	21.2	18.8	15.3	12.9	13.3	18.5	33.7	19.7	15.5	10.6	10.4	10.2	
FP1	25.4	28	23.7	12.4	6.6	3.9	42.2	23.7	19	8.4	4.7	2.1	
F3	25.8	22	25.7	14.8	7.2	4.5	30.2	24.5	23.4	11.2	7.2	3.4	
C3	28	21.7	25.1	15.4	6.1	3.8	30	25.1	23.1	12.3	6.1	3.4	
P3	29.9	22.8	21.4	13.4	7.8	4.7	36.1	25.1	17.4	9.6	6.7	5	
O1	23.4	16.8	13.5	14.2	13	19.1	27.7	20.1	16.6	11.7	10.3	13.8	
FZ	24.9	24.8	26.3	14	6.7	3.3	32.9	23.5	26.6	9.2	5.4	2.4	
CZ	27.5	22	25	16.7	5.4	3.4	30	25.5	22	12.6	6.3	3.5	
PZ	29.6	23.6	20	15.4	7.2	4.2	39.1	22.9	16.1	11.7	6.7	3.6	
FP2	25.8	26.3	22.8	13.2	7.5	4.4	40.4	23.3	21.3	7.5	5	2.4	
F4	25.7	23	24	14.7	8	4.6	32.9	22.3	24.9	9.4	7.2	3.3	
C4	25.3	22.1	24.7	18	6	3.9	29.1	21.8	23.5	14.1	8	3.5	
P4	29.9	24.5	19.9	14.8	6.6	4.4	35.4	22	19.2	11.6	7.9	3.8	
O2	27.4	20.7	13.7	14.1	11.2	12.9	32.5	23.9	17.4	11.4	7.5	7.2	
F8	25.9	22.7	21.5	14.8	9	6	35.2	21.3	22.6	8.7	7.8	4.3	
T4	21.8	25.1	18.6	19.6	9	6	29.2	17.6	22.5	14.2	10.1	6.4	
T6	24.3	24.6	17.6	14.9	11.4	7.2	32.4	22.1	18.6	11.7	9.1	6.1	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	23.8	23.5	22.8	11.7	10.7	7.4	25.5	24	21.4	11.7	10.1	7.3	
T3	23.2	23.8	18.7	11.9	11.6	10.7	29.2	23.7	16.3	14.7	8.7	7.3	
T5	23.7	18.3	19.9	19.5	10.2	8.4	21.3	19.3	15.6	15.2	11.3	17.3	
FP1	30.3	25.5	21.3	10.9	8.1	3.9	31.2	25.4	22.3	10	7.1	4	
F3	25.8	22.4	24.4	12	10.6	4.7	31.1	24.1	21.8	10.8	7.5	4.6	
C3	24.5	23.7	26.6	13.7	8.1	3.2	27.6	22.4	23.6	14.8	8	3.6	
P3	22.8	21.1	23.8	20.8	8.2	3.5	27.9	22.3	21.8	13.4	9.5	5	
O1	20.1	13.6	13.2	29.2	11.2	12.7	17.7	17.7	14.5	14.8	15.8	19.5	
FZ	28.1	24.3	23.9	12.5	8.3	3	32.6	26.3	21.8	10	6.3	3	
CZ	23.6	23.2	26	17	7.2	2.9	28.2	22.4	24.9	14.5	7.1	3	
PZ	26.2	19.5	19.5	24.9	7.4	2.5	30.7	22.2	21.1	15	7.5	3.5	
FP2	28.1	25	22.7	11.1	9	4.2	32.1	25.1	20.3	10.3	7.5	4.6	
F4	26.7	24.7	23.1	12.3	9.4	3.8	32.6	25.9	20.4	10	7.3	3.9	
C4	23.2	22.4	23.9	19.2	8.2	3.2	28.9	21.1	24.5	15	7.1	3.5	
P4	23.4	17.8	20.7	27	8.3	2.8	29.5	22.6	21.2	14.5	8.1	4.1	
O2	22.5	15	13.5	34	9.2	5.9	22.1	20.2	16.1	15.8	12.6	13.1	
F8	28.5	24.4	20.6	11.1	10.4	5	31.4	22.2	19.7	10.9	10.1	5.7	
T4	24.5	21.3	21.9	17.2	9.6	5.5	25.6	20.3	20.9	16.4	11.2	5.5	
T6	19	18.3	20.4	28.3	8.4	5.7	25.3	21.7	18.8	16.7	10.7	6.8	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	24.8	22.3	28.8	7.8	6.1	10.2	28.4	24.5	24	8.9	6.6	7.7	
T3	18.8	21.7	36.2	15.2	3.8	4.2	21	26.1	32.8	9.7	4.3	6.1	
T5	19	19.6	33.3	18.5	6.7	2.9	20.6	21.1	29	14.6	6.7	8.1	
FP1	26.3	18.8	18.2	5.4	11.3	20	21.7	26.2	26.6	10.2	7.9	7.4	
F3	25.1	24.1	30.8	8.1	4.8	7	20.1	24.5	33.8	10.9	5.6	5.1	
C3	21.9	17.3	39.7	13.2	4.2	3.8	19.5	24.1	33.5	13.6	5.3	3.9	
P3	19.7	16.2	36.1	20.2	5.8	2	17.9	21.9	32.8	18	5.2	4.2	
O1	15.9	21	31.7	20.9	6.7	3.8	14.4	19.3	28.9	14.3	8.5	14.6	
FZ	27.5	23.8	30.1	9.9	4.9	3.8	18.9	24.1	37.4	11.4	5	3.1	
CZ	21.9	20.9	39.8	12	3.1	2.2	18.8	23.1	39.7	12.2	3.8	2.4	
PZ	22.9	18.1	37.5	15.4	4.4	1.6	18.7	20.2	36.6	17.3	4.4	2.8	
FP2	35.5	22.1	21.6	7.4	5.5	7.9	24.1	28.8	27.1	10.5	5.5	3.9	
F4	28.2	24.2	28.2	9.8	5.2	4.5	20.9	25.5	34.2	11.1	4.8	3.6	
C4	23.8	22.7	31.9	13.5	3.9	4.2	22.1	25.6	33.6	11.3	4	3.3	
P4	21.3	19.8	33.8	18.5	4.3	2.4	20.1	22	33.3	15.5	5	4.1	
O2	16	25	30.1	17.8	6.4	4.7	15.6	21.5	28.1	13.6	8.1	13.2	
F8	26	22.5	21.6	7.1	8.4	14.4	31.7	24.2	24.2	8.5	5.5	5.8	
T6	18.4	21.7	31.1	20.4	4.9	3.4	20.5	21.6	34.4	11.6	5.6	6.4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	23.2	25.3	29.7	8.4	6.1	7.5	30	25	24.3	7	5.4	8.4	
T3	16.4	22.4	35.4	11.5	6.6	7.6	21.8	21.5	35.7	11.2	4.9	4.8	
T5	13.5	18.9	28.6	11.9	11.7	15.3	22.9	23.6	25.9	10.2	8.5	9	
FP1	28.3	24.6	28.2	8.5	4.8	5.7	35.2	23.4	21.9	7.2	5.2	7.1	
F3	20.8	24.3	35.5	9.2	5	5.1	26.7	23.8	30.8	8.7	5	5.2	
C3	21.8	23.3	33.4	11.5	5.4	4.6	27.8	24.1	29.2	10.9	4.2	3.7	
P3	19.1	26.3	30.4	11.6	6.7	5.9	31.1	22.6	26.6	9.7	5.3	4.7	
O1	16.6	18.4	19.6	12.6	13.4	19.3	23.1	19	19.1	10.5	11.9	16.4	
FZ	20	25.7	38.3	8.7	4.1	3.2	27.1	22.2	33.6	9.1	4.8	3.3	
CZ	20.2	23.5	38.8	9.8	4.2	3.5	25.8	22.4	36.7	9.1	3.3	2.7	
PZ	26	26.3	29.3	9.2	5.1	4.2	32.7	23.9	28	7.5	4.4	3.5	
FP2	28.6	24.7	30.1	8.9	4.3	3.4	35.6	24.8	25.1	7.6	4	3	
F4	21	25.7	36.8	8.7	4.4	3.5	30	23.2	30.1	8	4.7	4	
C4	20.8	24.1	36.2	10.9	4	4	28.7	22.5	31.6	8.5	4.5	4.2	
P4	24.1	23.7	31	10.8	5.5	5.1	30.9	21.1	28.3	8.7	6.1	4.8	
F8	23.7	23	27.8	8.3	7.5	9.7	36.2	22.5	21.8	7	5.2	7.4	
T4	17.7	18.9	32.2	8.1	9.3	13.9	30.4	23.7	26.3	8.1	5.4	6.1	
T6	21.7	19.5	29.1	10.1	8.4	11.3	26.8	20.6	28.7	10	6.9	6.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.1	17.7	25.9	8.2	7.8	7.3	32.7	28.7	21.4	6.7	4.9	5.6	
T3	27.7	22.5	33.1	8	4.3	4.5	18.8	28.5	29.9	10.4	5.5	6.9	
T5	28.4	22.2	30.2	12.3	4.6	2.3	17.9	19.1	30.1	13.8	7.9	11.2	
FP1	31.2	24.5	21.2	12.3	5.5	5.3	29.4	25.4	25.2	9.5	4.8	5.6	
F3	27.8	21.6	29	12.8	4.9	3.9	23.7	26	30.4	8.9	5	6.1	
C3	30.3	20.9	30.3	11.3	4.6	2.7	27	26.3	27.9	10.8	4.3	3.6	
P3	26.4	20.7	31.2	15	5	1.6	24.5	22.1	28.9	14.7	5.3	4.6	
O1	24.9	19.4	31.3	14	6.3	4.1	19.8	16.9	23.5	11.9	11	16.8	
FZ	29.2	23	28.1	13.1	4.3	2.3	20.7	25.1	37.1	8.5	5.1	3.6	
CZ	22.8	18.8	40.1	12.7	3.5	2.1	25.8	22.4	34	10.6	4.2	3	
PZ	26.1	17.9	34.9	15.7	4.2	1.2	29.3	21.3	30.2	11.9	4.4	2.8	
FP2	33	24	22.8	13.2	4	2.9	28.5	24.2	28.2	10.5	4.6	4.1	
F4	29.1	20.7	29.6	13	4.6	3.2	21.8	21.7	37	9.1	5.9	4.5	
C4	26.1	20.7	35.1	11.7	3.9	2.5	27.1	21.6	33.7	8.7	4.9	4	
P4	26.6	17.5	36.4	14.4	3.4	1.7	27	25.7	28.1	10.6	4.8	3.8	
O2	26.2	18.5	29.8	15.4	5.9	4.2	21	19.7	24	10.8	11.3	13.3	
F8	36.4	14.9	22	11.2	7.2	8.2	25.9	22.6	27	10.4	5.7	8.5	
T4	23.2	15.4	29.1	8.9	11.3	12.1	23.5	21.2	29.6	8.4	6.3	11.1	
T6	25.9	18	36.4	12.9	4.1	2.7	21.7	20.8	28.9	10.5	7.6	10.4	

09X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.6	19.4	16.6	13.9	11.1	11.4	28.4	23.5	16	9.8	10.6	11.7	
T3	19.8	21.3	19.6	21.3	9.8	8.2	20.3	26.1	22.5	13.9	9.9	7.3	
T5	15.5	13.3	23.8	37.9	6.6	2.8	19.1	23	22.9	21.5	7.4	6	
FP1	17.1	21.3	18.9	13.7	15.7	13.3	20.5	23.3	17.7	9.8	15.2	13.4	
F3	17.3	25.7	25.1	18.7	7.7	5.6	20.1	28.2	24.5	12.2	8	7	
C3	15.4	20.3	20.7	36.1	5.4	2.1	22.5	26.2	20.4	22.4	5.4	3	
P3	18	13.1	18.4	44.5	4.5	1.5	20.2	23	22	24.3	6.8	3.7	
O1	14.3	11.9	20.8	39.3	7.1	6.7	12.7	14.6	21.5	22.5	11.7	17.1	
FZ	14	28.5	29.6	18.1	5.9	3.9	17.2	34.1	26.9	10.6	6.8	4.4	
CZ	17.7	22.8	19.8	33.4	4.6	1.7	19.2	27.2	21.9	24.5	4.6	2.5	
PZ	17.1	12.7	16.5	48.9	3.7	1.2	21.8	23.2	19.4	26.2	6.2	3.2	
FP2	13.8	17.8	15.1	11.8	20.8	20.7	16.7	19.7	15.5	9.8	21.3	17.1	
F4	16.1	30.2	23.8	17.7	6.5	5.8	18.1	30.3	24.6	13	7.8	6.3	
C4	17.1	25.1	19.7	31.6	4.5	2.1	23.5	31.9	20.9	15.6	5.1	2.8	
P4	17.1	15.2	20.8	41.2	4.2	1.5	23	25.5	19.5	20.7	7.2	4.1	
O2	15.3	13.6	20.9	41.4	5	3.8	15.3	17.8	22.2	20.1	10.6	13.9	
F8	21	22.7	18.4	16.2	9.5	12.2	22.2	20.1	20.2	11.9	11.3	14.3	
T4	17.1	17.2	16	18.1	17.3	14.3	11.6	15.4	12.3	11.3	26.8	22.6	
T6	18.9	14.8	23.3	29.6	8.2	5.2	19.2	22.8	20.6	14.1	11	12.2	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.1	20.3	21.5	12.9	6.9	10.3	30.4	23.7	16.6	12.3	7.1	9.8	
T3	21.9	21.5	22.9	19.5	8.1	6.1	26.6	25.1	21	13.5	7.1	6.6	
T5	23	23.3	18.8	18.9	7.9	8	30.5	21.3	14.2	21.1	7.5	5.3	
FP1	26.8	27	21.8	10	7.5	6.9	24.2	28.3	19.5	11.7	8.3	8.1	
F3	21.5	27.9	24.8	13.5	6.9	5.4	16.9	27.4	26.3	14.6	7.7	7	
C3	27.9	21.4	24.2	18.8	8	3.7	20.7	31	17.3	22	5.6	3.4	
P3	25.7	23.4	17.6	20.9	7.2	5.3	25.6	22.1	18	24.9	6.1	3.3	
O1	17	14.6	16	21.1	12.9	18.5	21	16.9	17.1	21.5	9.2	14.3	
FZ	18.3	33.3	27.5	11.2	5.9	3.7	19.9	26.7	29.4	13.5	5.8	4.7	
CZ	19.8	24.8	21.9	25.5	5	3	15.6	23.1	16	39.1	4	2.2	
PZ	27.5	18.5	16.4	28	6.2	3.4	22.6	21.6	17.6	31.1	4.5	2.6	
FP2	24.6	22.8	19.8	10.1	10.3	12.4	26.3	26.9	19.9	11.3	7	8.5	
F4	19.7	29.8	26	13.6	6.3	4.6	19.8	26.5	26.5	15.1	5.8	6.4	
C4	22	20.4	21.9	27	5.5	3.2	26.1	31.7	18.3	15.9	4.8	3.2	
P4	26.9	18.6	17.7	26.2	6.2	4.4	30.3	22.8	15.2	22.9	5.1	3.6	
O2	18.4	14	15.9	25.9	11.1	14.8	26.9	18	18.1	19.8	6.5	10.6	
F8	24	24.1	22.8	10.3	8.5	10.2	24.8	24.2	17.8	13.1	5.2	14.9	
T4	22.3	16.4	16.1	12.7	16.8	15.7	27.2	17.6	18.7	15.9	9.1	11.6	
T6	22.5	18.7	14.2	14	14	16.5	31.1	19.9	14.7	16.9	7.9	9.4	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26	22.4	14.2	17.6	9.7	10.1	31.8	20.2	17.3	8.7	9	13	
T3	23.4	20.6	19.9	20.9	8.4	6.8	21.2	24.8	23	13.6	9.5	7.9	
T5	15.5	15.7	23	36.5	6.2	3.1	16.7	24.1	19.3	21	9	9.8	
FP1	25.8	23.7	17.2	14.9	10.6	7.7	31.1	22.7	20.2	9.2	8.9	7.8	
F3	20.8	23	24.8	19.6	6.9	4.8	22.1	27.1	26.4	11.5	7.5	5.4	
C3	16.9	21.9	20.7	32.6	5.6	2.4	19.7	28.1	23.7	19.2	5.9	3.5	
P3	16.7	16.4	21	38.7	5.5	1.6	16.5	26.6	20.3	23.3	8	5.3	
O1	16.2	15.3	20	34.7	7.4	6.3	12.4	16	16.7	19.1	14.2	21.7	
FZ	22	22.3	25.8	18.9	7.3	3.8	19.1	29.3	28.5	12.5	6.8	3.7	
CZ	13.8	18.7	21	41	3.6	1.8	13.6	22.6	24.2	31.5	5.1	3	
PZ	14.6	13.8	18.3	48.5	3.7	1	16.9	24.2	20	29.9	5.5	3.5	
FP2	19	19	17	14.2	15.7	15.2	28.1	19.3	17.2	10.3	13.2	11.9	
F4	18.6	23.5	23.9	18.4	8.9	6.6	20.1	27.4	24.5	15.1	7.4	5.5	
C4	18.2	19.5	20.5	34.6	5.1	2	18.8	24.2	21.4	27.6	4.7	3.2	
P4	15	13.8	20.6	44	5.2	1.4	21	26	22	22.2	5	3.8	
O2	15.1	17.1	21.2	35.6	6.8	4.3	15	18.8	21.1	18	10.4	16.7	
F8	24.3	21.2	16.3	15.9	8.4	13.9	26.6	19.8	19.4	14.6	9	10.5	
T4	18.1	15.4	17.2	17.2	15.5	16.5	18.4	17	13.9	15.5	17.2	18	
T6	18.3	14.7	19.4	35.2	7.2	5.1	24.5	21.1	21.1	15.1	8.2	10	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30	24.1	18.7	7.6	8	11.5	33.8	21.7	23.5	9.1	7.1	4.9	
T3	25.3	24.6	22.8	10.4	9.1	7.9	29	19.7	29.4	9.9	7.5	4.7	
T5	27.2	32.2	20.7	9.5	6.4	4.1	26.9	23.5	24.2	11	7.9	6.6	
FP1	27.9	29.3	18.6	8.5	8.1	7.6	30	26.1	22	10.3	7.2	4.4	
F3	26.8	24.5	27.3	9.6	7.8	4.1	30.8	23.6	24.7	9.8	7.5	3.7	
C3	24.8	21.8	28	15.6	6.8	2.9	29.1	20.5	27	14.1	6	3.3	
P3	36.3	28.2	17.8	10.6	4.7	2.4	32.1	20.7	24.5	11.5	7.4	3.9	
O1	30.5	26.2	20.2	14.3	5.8	3	20.9	21.7	29	13	8.4	7.1	
FZ	28	24.2	28.1	9.2	7.6	2.9	28.8	24.3	26.9	10.6	6.2	3.2	
CZ	30.3	27.9	23.1	11.2	4.9	2.5	31.4	23.4	26.1	10.7	5.5	2.8	
PZ	36.5	25.7	21.1	10.2	4.1	2.3	32.6	21.3	26.2	11	5.9	3	
FP2	31.8	27	19.9	9.1	7.3	4.8	29.9	26.7	21.1	11.4	6.7	4.1	
F4	33.9	22.6	22.6	9	7.5	4.4	29	26.9	22.4	10.8	7	3.9	
C4	30	22.8	22.1	15.3	6	3.9	32.1	22.3	22.7	13.6	6.1	3.2	
P4	40.4	24.3	17	11.3	4.5	2.5	34.9	22.5	22.1	11	5.8	3.7	
O2	30	26.1	19.8	15.4	5.6	3.1	23.6	21.1	28.5	12.2	8	6.6	
F8	33.8	22.9	16.3	9.4	8.4	9.3	33.5	26.2	18.1	9.9	7	5.2	
T4	29.4	20.6	22.5	11	8.3	8.2	28.1	27.1	21.9	11.4	6.6	4.9	
T6	32.5	24.8	20.6	12.6	5.7	3.8	29.2	25.5	24	10.5	6.3	4.6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	32.5	19.8	18.7	11.1	8.1	9.7	29.7	26.1	21.2	8	8.7	6.2	
T3	22	24.1	31	9.7	7.5	5.7	32.9	26.5	22.8	8.8	5.3	3.8	
T5	24.5	22	25.5	11.3	7.9	9	27.7	27.3	25.8	10.2	5.4	3.6	
FP1	28.6	24	21.2	11.5	8.1	6.7	31.9	23.8	20.7	11.8	6.3	5.6	
F3	29	27.5	23.4	9.7	6.2	4.2	29.7	24.1	27.5	7.8	7.6	3.2	
C3	24.7	24.4	28.8	12.2	5.7	4.1	25.9	21.1	25.5	19.4	5.3	2.8	
P3	33.2	25.2	22.3	11	5.2	3	26.7	27.1	25.9	11.2	5.9	3.2	
O1	24.3	26.5	26.8	12	5.9	4.4	23.6	26.4	27.3	11.5	6.7	4.6	
FZ	24.1	27.8	28.6	10.9	5.7	3	28.1	24	29.8	8.8	6.7	2.6	
CZ	30.1	24.2	24.9	14	4.2	2.6	32.3	24.7	27.2	9.2	4.5	2.1	
PZ	31.1	25	23.4	13.1	4.6	2.6	28.3	25.7	29.8	9.2	4.8	2.3	
FP2	28.4	24.2	23	13	7.2	4.3	37.3	22.9	19.2	11.4	6.1	3	
F4	28.2	26	26.7	9.8	5.8	3.7	31.6	18.1	30.5	9.6	6.9	3.4	
C4	29.7	21.5	26.8	14.3	4.5	3.2	23.1	25	28.2	15.6	5.4	2.8	
P4	30.9	23.1	25.7	11.7	5.5	3.1	26.8	27.2	28.3	9.7	5.3	2.7	
O2	23.5	26.6	28.6	11.9	5.5	3.9	23.2	25.4	29	12.1	6.6	3.7	
F8	29.7	22.2	21.5	11.2	7.6	7.8	37.6	21.6	20.2	9.1	6.5	4.9	
T4	24.2	28	25.3	10.7	6.9	6.9	27.5	31.7	22.7	8.7	5.9	3.4	
T6	29.6	24.4	23.4	10.7	6.6	5.2	25.5	33.6	21.6	10.1	6.1	3.1	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.4	23.3	25.3	8.5	8	9.5	26.1	26.9	23.5	9.9	6.5	7.1	
T3	25.9	24.6	25.5	9.8	7.1	7	21.7	29.8	30.1	9.1	5.3	4	
T5	23	26	23.4	11.5	8.7	7.4	22.6	26.2	26.3	11.7	7.5	5.7	
FP1	28.3	23.1	24.9	9.9	7.8	6.1	21.8	27.8	25.6	12.4	6.6	6	
F3	26.7	23.3	28.6	10.3	6.5	4.5	24.4	31.5	25.2	9.8	5.7	3.4	
C3	29.6	21.9	28.5	11	5.2	3.8	22.5	28.4	30.2	11.1	4.9	2.8	
P3	27.9	24.2	24.7	11.8	7.3	4.1	25.9	28.5	24.6	11.8	5.9	3.3	
O1	24.4	23	24.2	13.7	7.6	7.1	21.5	26.3	26.8	12.2	7.7	5.6	
FZ	28.2	22.4	26.9	12.9	5.9	3.8	22.7	29.6	28.8	10.2	5.6	3.1	
CZ	29.4	22.3	27	13.8	4.5	3	23	30.9	27.6	11.6	4.3	2.6	
PZ	28.2	22.8	27.9	11.8	6.2	3.1	26.3	30.9	23.9	11.5	4.8	2.5	
FP2	28.3	25.3	23.5	11.7	6.6	4.4	28.5	24.7	23.4	12.1	6.6	4.8	
F4	26.4	24.8	25	12.7	6.6	4.5	29.1	26.8	24.5	10.1	5.9	3.6	
C4	28.7	21.4	27.8	12.6	5.8	3.7	21.9	31.5	27.7	11.5	4.5	2.9	
P4	27.3	24.7	26.5	11.5	6.1	3.9	27.6	32.2	23.9	9.3	4.4	2.6	
O2	25.9	24.5	25.8	12.6	6.2	5.1	23.6	27.5	26.7	11.2	6.5	4.5	
F8	24.4	24.6	20.9	11.4	7.9	10.7	32	22.8	21.9	9.1	6.9	7.2	
T4	26.8	23	27	11.1	6.2	5.9	22.7	27.6	28.7	9.8	6.5	4.7	
T6	24	29.5	24.9	10.9	6.5	4.2	30	28.5	26.5	6.9	4.9	3.2	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	24.7	15.3	15.9	16.2	15.8	12.1	31.7	24.9	17.1	10.5	10.9	4.9	
T3	20.5	17.4	20.6	23	12.6	5.9	30.8	21.8	20.2	9.6	11.6	6	
T5	19.3	15.9	18.2	30.7	12.4	3.6	26.1	22	21.6	11.1	12.8	6.4	
FP1	19.2	13.2	10.9	12.1	18.7	25.9	30.6	20.4	12.7	10.3	13.5	12.4	
F3	24.6	21.4	18.8	16.5	11.8	6.8	27.7	26.6	20.2	12	10.3	3.2	
C3	18.2	19.9	25.8	23.6	9.8	2.8	29.2	26	23	9.7	9.1	2.9	
P3	20.2	16	16.6	36.9	8.3	1.9	29.1	24.4	21.6	11.6	9.8	3.6	
O1	18.8	11.2	9.6	39.6	12.7	8	21.7	19.2	19.8	12.8	12.6	1.4	
FZ	24.7	22.9	19	17.9	10.8	4.8	30.1	26.2	17.8	12	10.4	3.6	
CZ	16.1	19.8	27.4	26.1	8.1	2.5	33.2	25.4	21.4	10.8	6.9	2.3	
PZ	16.6	13.8	10.2	52.1	5.9	1.4	30.8	23.3	19.7	15.2	8.5	2.6	
FP2	14.6	8	7.2	9.2	18.7	42.3	26.3	14.5	9.4	8.5	17	24.2	
F4	18.5	18.1	16.2	16.4	15.4	15.5	29.2	21.3	15.3	11.1	13.2	9.8	
C4	21.1	19.7	22.8	24.1	9.6	2.7	33.7	22.9	21.7	9.2	9.5	3.2	
P4	15	13.6	11.3	49.1	8.9	2	30.3	22.6	20.8	12.6	10.6	3.1	
O2	16.2	9.8	7.4	54.4	9	3.1	27.4	21.4	21.8	14.3	9	6	
F8	18.4	19.7	14.3	17.6	14.9	15.2	37.1	20.4	15.6	10.2	10.8	6.1	
T4	15.9	22.3	19.6	21.2	13.1	8	32.9	17.9	16.7	7.5	15.3	9.7	
T6	15.2	14.8	11.5	41.7	13.6	3.5	26.8	21.9	20.6	13.1	12.7	4.9	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	37	24.4	16.7	10.5	6.9	4.5	33.7	19.9	14.9	9.5	11.5	10.5	
T3	27.4	23.4	21.5	10.9	8.7	8.1	34.7	19.8	18.2	8.5	9.4	9.5	
T5	27.1	26.5	21	9.3	10	6	24.9	22.5	21.6	12.6	10.9	7.6	
FP1	40.1	28	14.6	8.6	6.5	4.1	32.5	22.2	14.7	8.9	10.2	11.5	
F3	34.2	25.4	20.1	10.3	7.3	2.7	28.4	27.4	16.9	10.1	11.1	6.1	
C3	25.7	29	25.4	10	6.5	3.4	23.4	30	23.8	10.6	7.6	4.6	
P3	25.4	32.8	21.7	8.6	7.6	4	23.2	28.9	25.5	9.2	8.4	4.7	
O1	28.3	26.5	19.9	10	8.1	7.2	26.2	23.4	16.8	11	11.3	11.3	
FZ	31.6	25.8	21.9	10.4	7.5	2.8	27	28.1	19.4	10.6	10.5	4.3	
CZ	28	27.8	26.3	9.1	5.7	3.2	29.6	30.2	20.5	9.3	7.3	3.1	
PZ	31.1	31.4	18.7	9.4	6.1	3.4	27.3	26.6	23.5	11	8	3.7	
FP2	42	22	14.2	8.1	7.4	6.4	32.3	20.5	14	7.6	11.5	14.1	
F4	31.6	24.6	21	9.3	8.7	4.8	24	28.9	17.3	7.8	13.2	8.9	
C4	29.1	24.5	21.5	10.3	8.7	5.9	27.3	28.5	19.2	9.1	10.9	4.9	
P4	32.2	25.6	14	9.9	10.1	8.2	27.4	30.1	19.8	8.1	9.2	5.3	
O2	26.3	24.8	17.3	11	8.7	11.9	25.7	26.9	20.2	10.7	10.3	6.3	
F8	35.1	21.7	17.1	9.6	10.2	6.3	44.2	19.8	15.4	6	7.9	6.8	
T4	27.8	15.8	13.1	7.5	17.2	18.6	29.7	18.4	14.2	6.5	17.1	14.1	
T6	26.6	20.5	11.4	9.8	16.4	15.4	22.7	25.7	17.6	10.2	12	11.8	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	23.3	22.6	24.1	12.5	13.4	4.2	31.4	22.5	18.1	11	10.2	6.8	
T3	23.1	23.5	25.5	13.1	9.9	4.9	31.2	19.4	22.5	10.2	9.8	6.9	
T5	30.5	21.3	19.6	14.8	11.3	2.6	24.6	27.2	21.5	10.6	10.6	5.5	
FP1	31	21.2	17.8	11.1	12.1	6.7	33.5	18.3	14.3	10.4	11.6	11.9	
F3	21.2	24.4	25.6	12.7	13.4	2.6	23.4	25.7	22.6	12.3	12.7	3.3	
C3	24.4	23.6	23.7	14.4	11.3	2.7	27.5	22.2	24.6	12.3	9.8	3.6	
P3	29.5	23.1	18.6	14	12.3	2.4	24.6	23.4	23.2	12.7	11.8	4.3	
O1	31.9	25.2	18	12.3	10.3	2.2	20.9	24.3	20.1	10.9	12.5	11.2	
FZ	24.1	24.7	24.9	11.9	12.1	2.3	23.9	27	20.8	13	12	3.2	
CZ	28.8	24	21.9	13.8	9.4	2.1	32.7	25.3	21.3	10.8	7.3	2.6	
PZ	28.1	23.7	16.9	17.4	11.9	1.9	29.9	21.8	18.1	15.5	11.3	3.3	
FP2	37.1	21	16.8	9.9	10	5.2	26.2	15.4	10	9.4	15	24	
F4	26.3	25.6	21.9	11.3	11.8	3.1	25.5	25.7	15.8	9.5	14.4	9.1	
C4	25.3	26.8	21.3	12.8	11.2	2.7	34.4	25.8	18.1	8.8	8.7	4.3	
P4	28.6	24.5	17.4	13.8	13.5	2.1	24	25	19.8	11.1	12.6	7.5	
O2	30.7	25.2	17.5	13.5	11	2	21.8	21.7	19.6	11.8	14.3	10.7	
F8	35.3	20.7	18.4	11.3	10	4.3	33.7	23.9	16.3	9.4	10	6.7	
T4	26.6	24.8	17.5	11.3	13	6.9	25.4	21.9	16.2	8.5	15.4	12.6	
T6	29.8	24.8	16.6	13.8	12.7	2.3	22.9	22.7	16.1	9.7	15.6	13	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.3	25.1	16.6	14.8	7.4	10.9	23.6	20.8	25.5	14.1	8.4	7.6	
T3	19.2	20.8	19.1	25.9	6.7	8.4	19.7	21.4	25.2	17.3	7.6	8.7	
T5	19.5	15.5	22.4	27	9	6.6	18.6	19.4	24.1	19.4	9.1	9.3	
FP1	24.4	26.1	16.5	12.8	9.6	10.6	22.9	22.3	24.6	15.6	8.1	6.5	
F3	25.2	25	17.2	15	7.2	10.4	23	21.2	26.5	14.6	7.8	6.9	
C3	19.2	20.3	20.1	27.2	6.6	6.5	18.2	21.9	26.6	23.3	6.1	3.9	
P3	20.2	17.3	21.3	31.2	5.8	4.2	19.2	16.1	23.9	27.1	7.5	6.2	
O1	22.1	21.6	21.9	22.5	6.5	5.5	13.1	21.2	31.1	19.2	8	7.3	
FZ	23.4	25.7	23.3	14.7	7	5.8	19.3	24.1	29.5	16.8	6.2	4.1	
CZ	17.4	21.4	26.1	26.3	5	3.7	19	20.3	27.9	25.1	4.6	3.1	
PZ	20.3	17.2	23.6	31.1	4.7	3.1	20.5	18.1	22.1	31	5.5	2.8	
FP2	27.4	26.2	16.8	12.7	8	8.9	24	22.8	23.6	16.1	7.9	5.6	
F4	23.6	22.2	21.3	14.5	9.9	8.5	20.3	22.5	26.4	16.7	7.7	6.4	
C4	17.4	18.3	23.7	28.3	7	5.2	18.7	20.3	29.3	21.3	6.2	4.2	
P4	17.9	16.5	23.3	33.6	5.6	3.2	21.5	16.9	24.7	26.7	6.3	4	
O2	21.3	19.2	24.1	26.9	5.5	3	16.1	19.4	28.2	22.8	7.7	5.8	
F8	23.2	22.3	21.3	14.6	9.9	8.7	20.3	22.3	26.3	16.9	7.7	6.4	
T4	16.2	16.8	15.4	17.6	14.9	19.1	16	15.6	16.1	16.3	12.1	23.8	
T6	16.9	18.9	22.3	29	7.1	5.8	17.9	17.5	22.5	24.9	8.5	8.7	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	28.1	23.1	19	16.7	7	6.1	25.8	27.6	21	12.1	6.3	7.2	
T3	20.4	22.7	23	19.7	8.4	5.8	20.4	15.9	17.7	13.1	10.8	22.2	
T5	16.1	23.4	23.2	15.6	10	11.6	21.5	25.2	23.4	15.7	8.5	5.7	
FP1	27.6	22.8	18.9	18.4	7.4	4.9	25.2	27.1	22.2	11.7	7.8	6	
F3	27.1	23.7	19.4	16.6	7.2	6	24.9	27.8	22	12.3	6.2	6.8	
C3	18.7	23.4	26.7	19.4	7.6	4.2	16.8	23.3	27.3	19.3	6.8	6.5	
P3	17	23.5	26.7	19.4	7.8	5.7	18.8	27.5	23	19.4	7	4.3	
O1	16	17.5	21.8	18.9	12	13.8	18.7	25.3	20.8	15.7	9.5	10	
FZ	19.3	27.9	24.5	16.6	7.6	4.1	19.8	28.1	26.5	13.1	7	5.4	
CZ	16.9	20.6	27	25.4	6.5	3.5	17.5	25.8	28	19.3	5.5	3.9	
PZ	15.7	22.7	26.6	25	6.5	3.5	15.4	31.5	25.4	19	5.4	3.4	
FP2	29.8	22.9	19	16.6	6.9	4.8	30	25.5	20.1	10.8	7.1	6.5	
F4	22.6	27.3	19.8	19.2	6.1	5	20	26.2	25.8	13.6	6.9	7.5	
C4	15	25.8	22	26.1	6.1	5	17	27.4	26.3	18.1	6.3	5	
P4	15.9	24.6	22	22.3	9.2	6.1	14.7	30.6	25.7	18.4	6.2	4.5	
O2	16.1	21.9	22.7	20.5	10.5	8.4	17.7	30.8	27.4	13.7	5.8	4.6	
F8	22.5	27.3	19.7	19.2	6.1	5.2	20.5	26	25.3	13.5	7.1	7.6	
T4	14.6	23.5	16.6	23.6	11	10.8	16.5	14	15	12.8	16.5	25.2	
T6	15.1	22.6	16.8	21.1	11.1	13.3	12.8	26.7	24.5	17.4	8.8	9.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.8	26	21	10	7.3	7.8	32.2	22	18.5	16.1	5.8	5.4	
T3	25.1	20.2	19.6	12	8.7	14.4	20.1	18.5	25.6	26.3	5.2	4.4	
T5	18	21.9	22.3	20.6	10.8	6.4	16	21.5	28.5	20	7.9	6.1	
FP1	32.4	28	17.4	10.9	5	6.3	29.1	23.3	16.9	15.8	6.9	8.1	
F3	28	25.9	21.8	9.7	6.9	7.7	32	22.3	19	16.5	5.5	4.7	
C3	23	20.5	26.6	18.1	6	5.7	18.8	18.7	29.4	25.1	4.5	3.5	
P3	20.7	17.8	24.3	25.7	7.6	3.8	15	22.6	30.7	19.2	7.1	5.4	
O1	22.1	22.6	26.9	16.1	7.8	4.5	14.2	24.3	24.9	15.5	10.1	10.9	
FZ	28.6	23.4	25.8	10.7	5.9	5.6	20.1	28.7	25.3	17	5.2	3.7	
CZ	21.3	20.5	31.1	16.5	6.2	4.3	20.9	20	25.9	26.1	4.5	2.6	
PZ	25.5	20.2	23.9	21.4	5.8	3.1	19.6	20.7	26.6	26.2	4.5	2.3	
FP2	33	25.2	18.6	10.9	5.9	6.4	30.7	24.7	19	14.4	5.9	5.3	
F4	23.7	23.1	26.5	13	6.9	6.9	23.3	28.3	21.5	15.8	5.1	6	
C4	18.5	22	27	19.5	7.3	5.7	22.6	22.1	25.4	21	5.3	3.6	
P4	22	18.3	25.4	23.6	6.6	4	19	20.7	25.9	25.2	5.4	3.9	
O2	29.5	22.9	23.7	16.2	5.2	2.5	15	24.7	26.9	22	5.6	5.9	
F8	23.4	23.6	25.9	13.1	6.9	7	24.1	27.8	21.3	15.8	4.9	6	
T4	16.4	18.2	14.3	8.6	18.5	24.1	18.8	16.7	16.9	26.9	9.5	9.2	
T6	22.4	19.9	24.9	17.2	8.3	7.4	19	19.4	20.6	24.9	7.3	6.9	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	43.8	28.7	12.5	5.4	5.4	4.2	43.4	26.2	15.2	6.6	4.5	4	
T3	28.1	28.1	18.7	8.7	7.7	8.7	27.3	26.7	21.6	9.2	8.3	6.8	
T5	30.8	24.8	19.7	13.5	7.4	4	31.1	26.1	22.2	10.4	6.6	3.6	
FP1	44.4	27.2	12.8	6.3	5.7	3.6	38.9	25.2	15.6	7.5	6.5	6.3	
F3	30.5	23	22.4	9.1	10.9	4.2	30.7	21.6	21.7	8.9	11.3	5.8	
C3	25.7	25	22.6	14.1	8.7	4	28.8	25.2	24.8	10.1	7.7	3.4	
P3	30.6	24.4	19.3	14.1	7.8	3.8	32.4	25.7	22.3	10	6.4	3.1	
O1	34.5	23.7	15.8	15	8.1	3	31.6	19.9	21.1	13.5	8.3	5.6	
FZ	26.8	25.3	24.8	9.1	10.5	3.5	30.8	22.4	22.4	10.6	10.1	3.6	
CZ	29.3	25.1	24.7	10.6	7.8	2.6	34.8	23.6	21.9	10.2	6.8	2.6	
PZ	37.2	21.8	17.7	13.1	7.7	2.5	38.4	22	20.8	9.4	7	2.5	
FP2	41	25.1	15.9	7.1	6.9	4	34.5	28	17.5	8.8	6.2	5	
F4	30.2	21.4	24.2	8.6	11.1	4.4	27.5	24.9	21	10.5	12	4.1	
C4	26.6	24	25.7	11.9	8.4	3.4	32.2	25.1	20.4	10	9.3	3	
P4	34.3	27.4	17.8	10.7	7.3	2.4	33.9	23.5	21.7	9.8	8	3.1	
O2	36.1	25.2	14.9	13.2	7.6	3.1	31.4	18.7	20.5	13.1	9	7.3	
F8	36	20.9	19.4	8.4	8.2	7.2	29.7	30	16.5	8.5	8.9	6.4	
T4	31.1	25.5	21.4	9.3	6.8	6	31.1	28.2	19.5	9.1	7.7	4.4	
T6	32.7	28.1	18.5	10.1	7.5	3.2	34.9	22	20.3	11.2	7.2	4.5	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	46.4	26.1	12.7	5.7	4.2	4.9	44.7	20.8	12.2	7.3	7.7	7.3	
T3	32.2	23	19.1	7.7	6.9	11.2	38.1	21.3	14.8	7.5	7.5	10.8	
T5	39.9	22.7	17	6.6	6.8	7	38.1	21	16.6	11.1	7.5	5.7	
FP1	37	31.1	14.9	7.6	4.7	4.6	42.6	23.4	15.1	7.7	6.5	4.8	
F3	27.3	27.9	20.9	11	8.4	4.5	26.6	26.9	23.1	9.2	8.4	5.9	
C3	31.4	26.7	21.2	8.7	7.1	4.8	33.2	23.7	21.6	10.7	6.3	4.5	
P3	40.9	22.1	17.5	6.8	6.6	6	40.8	21.5	15.1	10.1	7.4	5	
O1	41.6	17.9	16.2	9.6	7.7	6.9	45	21.2	11.6	7.4	8.9	6	
FZ	24.5	28.8	23	9.7	10.3	3.6	28.7	27	23.6	8.4	8.2	4.1	
CZ	37.3	25.8	17.3	9.4	6.3	3.9	38.6	20.4	24.3	7.3	6.1	3.3	
PZ	41.3	21.6	17.1	9.2	6.8	3.9	48.5	21.9	14.8	5.8	5.8	3.2	
FP2	35	31.8	16.1	7.7	5.3	4	41.3	21.7	17.7	7.8	6.9	4.5	
F4	26.1	29.9	19.9	7.8	11.3	4.9	27.9	23.7	24.9	8.8	10.1	4.6	
C4	33.6	26.2	18	10.5	7.4	4.3	31.9	23.6	20.5	12.8	7	4.1	
P4	41.2	21.1	16.8	8.6	7.2	5.1	46.2	24.4	12.1	7	6.6	3.7	
O2	36.5	16.4	14.4	10.8	10.2	11.6	43.4	21	11.4	6.6	9.6	8	
F8	35.3	28	15	6.5	7.7	7.5	29.4	24.7	17.9	8.6	9.3	10.1	
T4	32.4	25.1	17.6	7.2	6.7	11	32.9	23.1	17.5	8.3	9.5	8.6	
T6	39.1	19.7	16.2	8.1	8.3	8.8	41	23.6	11.5	9.3	8.1	6.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	50.2	22.5	12	6.8	4.7	3.7	39.3	28.5	15.1	6.9	5.7	4.5	
T3	39.1	20.5	19	9.3	5.5	6.5	38.1	29.6	14.8	7.1	6.3	4.1	
T5	33.4	24.1	18.8	13.2	6.8	3.7	31.9	28	21.1	8.9	6.7	3.4	
FP1	41.3	27.1	14	6.9	5.5	5.2	39.4	25.7	16.9	8.2	5.7	4.2	
F3	31.8	26.5	19.4	8.5	10.1	3.7	29.4	26.6	20.8	10	8.9	4.3	
C3	30.1	24	23.6	11.8	6.9	3.5	30.7	26.5	23.7	10	6.1	3	
P3	33.1	25.2	19.7	12.7	6.4	3	29.8	28.5	23.2	9.2	6.3	3	
O1	31.2	24.1	18.1	16.9	6.7	3	22.4	25.9	24.7	12.6	8.2	6.2	
FZ	29.9	24.6	22.1	8.4	12.1	2.9	26.8	29.3	21.9	9.1	9.3	3.7	
CZ	32.6	25.4	21.5	10.7	7.6	2.2	26.5	28.3	26.7	9.9	5.8	2.8	
PZ	33.9	25.1	21.4	12.1	5.3	2.2	26.3	28.4	25.5	10.7	6.1	2.9	
FP2	39.7	29.4	12.9	7.9	6.4	3.7	35.8	28	17.9	8.5	5.9	3.8	
F4	27.5	23.8	21.4	8.9	14.7	3.6	24	29.7	22.4	9.1	9.9	4.8	
C4	30.8	24.1	23	10.8	8.9	2.5	24.5	28.4	25.9	11.5	6.5	3.2	
P4	33.8	24.4	21.1	12.1	6.3	2.2	27.3	26.7	25.4	10.4	6.8	3.4	
O2	32.5	24.4	18.5	14.8	6.6	3.1	20.5	21.8	23	12.7	10.6	11.4	
F8	37.6	24.6	14.6	8.8	8.3	6.1	28.5	28.5	19.3	9.2	7.5	7	
T4	31.6	26.9	19.4	10.1	7.6	4.3	25.9	31.4	22.1	8.9	7.6	4.1	
T6	34.8	24.1	19.9	12	6.5	2.7	27.2	26.6	22.4	9.6	8.4	5.8	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	20.1	16.5	21.9	11	22.2	8.4	22.2	19.5	24.5	11.7	16.6	5.5	
T3	21.4	17.6	24	12.9	16.1	7.9	23.9	22.2	23.6	11	13	6.2	
T5	19	13.8	19.9	13.4	22.1	11.8	21.2	19.9	25.8	11.9	14.2	7	
FP1	26	17.2	17.9	10.5	16.5	11.9	26.5	16.1	17.4	10.7	18.7	10.6	
F3	19.9	16.7	22	11.2	22.2	8.1	22.1	19.7	24.9	11.5	16.7	5.2	
C3	17.3	16.8	25.4	18.5	18.2	3.8	21.8	21	26.3	14.7	12.4	3.7	
P3	20.8	15.8	23.9	17.5	18.2	3.8	23	18.9	29.2	13.2	12.4	3.4	
O1	24.7	16.9	21.5	20	13.6	3.2	28.1	19.8	27.1	12.5	8.6	3.8	
FZ	18	19.2	25.6	11.5	19.3	6.3	24.9	21.6	22.8	8.9	18.1	3.7	
CZ	15.5	17.3	33.3	14.7	16.5	2.7	21	21.4	30.9	10	13.7	3	
PZ	18	15.5	27.1	20.4	16.5	2.6	24.7	19	31.5	12	10.3	2.5	
FP2	22.6	14.6	19.7	11.1	20.3	11.7	22.5	17.1	17.2	9.1	23.9	10.2	
F4	17.8	19.1	25.4	11.5	19.6	6.6	24.9	21.6	22.5	8.8	18.3	3.9	
C4	12.8	14.4	26.5	24.9	17.6	3.7	22.3	19.7	28.2	10.2	15.6	4	
P4	19.5	15.3	25.1	22.1	15.2	2.7	24.7	20.5	28.8	11.7	11.2	3	
O2	25.6	16.4	21.6	21.1	12.4	2.9	27.9	22	27.2	11.8	7.5	3.6	
F8	17.9	18.9	25.2	11.5	19.8	6.8	25.3	21.8	22.1	8.7	18.2	3.9	
T4	13.7	16.8	25.4	20.4	16.4	7.3	22.6	19	25.1	10.7	17.2	5.5	
T6	15.6	13.5	21.7	17.8	18	13.4	20.9	19.5	24.4	10.8	15.1	9.3	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	20.5	18.7	29.5	10.4	14	6.9	29.8	17.3	20.5	12	13.2	7.3	
T3	24.7	19	24.9	11.2	11.6	8.6	35.3	17.5	22.3	7.2	12.5	5.1	
T5	18	14	26.8	10.9	16.7	13.7	23.1	20.6	19.5	12.8	14.8	9.1	
FP1	22.3	10.6	14.3	7.5	21.4	23.9	43.7	16	14.2	6.7	10.3	9.1	
F3	20.1	19	30.3	10.5	13.9	6.3	28.8	17.7	21.2	12.4	13.1	6.7	
C3	22.1	20	29.3	14	9.6	5	22.3	19.8	23.3	17.4	12.2	4.9	
P3	22.1	20.4	28	14.6	10	4.9	25.5	24.6	21.9	13.1	11.2	3.6	
O1	22.5	19.9	27.3	15.8	10.2	4.3	37.2	24.4	16.5	11.2	7.7	3	
FZ	25.2	18.7	26.5	10	13.2	6.5	34.4	17.4	18.7	9.8	12	7.7	
CZ	19.4	20.9	35.2	10.1	10.8	3.6	22.2	19.7	26.6	15.3	12.4	3.9	
PZ	22.9	20.4	25.4	18.3	9.7	3.4	27.9	25.2	20.9	13.7	9.4	2.8	
FP2	17.2	10.8	12.9	8.3	29.2	21.6	33	15.8	12.7	7.5	15.2	15.8	
F4	25.2	18.5	25.8	9.8	13.8	7.1	34.5	17.1	18.1	9.6	12.4	8.3	
C4	15.9	18.4	28.5	21.1	12.2	4	23.1	19.8	23.6	15.6	13.2	4.7	
P4	18.2	18.7	24.4	21.4	12.7	4.6	30.1	26.1	17.2	13.5	9.7	3.4	
O2	22.2	19.9	26.8	16.3	10.6	4.3	39.2	25.5	15	10.8	6.5	3	
F8	25.1	18.3	25.2	9.7	14.1	7.6	34.9	17	17.4	9.3	12.4	9	
T4	18.3	14.6	22.6	16.7	16.7	11.1	31	18.7	16.6	10.4	15.1	8.2	
T6	13.1	9.7	16	12.1	21.2	27.9	28.5	22.5	12.3	12	13.9	10.8	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	20.4	21.3	22.9	13.7	14.6	7.2	18.3	27.9	23.3	10	12.9	7.6	
T3	23	18.9	26.9	10.6	13.8	6.7	32	22.6	20.9	9.1	8.9	6.5	
T5	16.7	16	30	12.8	15.9	8.5	21.4	19.1	18.6	12.5	13.2	15	
FP1	31.2	16.8	14.4	10.2	13	14.5	27.2	14.7	13.6	7.5	17.8	19.3	
F3	19.8	21.8	23.2	13.9	14.6	6.5	17.9	28.3	23.8	10.2	13	6.7	
C3	13.6	19.8	27.5	20.5	14	4.6	17.8	30.7	21.9	14.7	9.9	4.9	
P3	17.7	19	28.6	17.1	13.9	3.7	21.4	28.7	22.2	13.7	8.1	6	
O1	25	25.1	21	13.8	11.7	3.4	20.1	27.3	22.6	13.8	9	7.2	
FZ	20.5	24.3	21.8	12.5	15.1	5.8	19.9	27.2	24.7	10.3	11.8	6	
CZ	14.6	24	27.3	15.6	14.7	3.9	16.9	29.7	28.1	11.9	9.5	3.9	
PZ	18.8	19.4	27.6	17.7	13.2	3.2	22.1	28.8	23.4	13.9	7.6	4.1	
FP2	21.1	18.5	17.2	10.9	18.1	14.2	17.1	15.2	15.9	7.9	26.4	17.4	
F4	20.9	24.1	21.2	12	15.7	6.1	19.7	26.7	24.2	10.7	12.1	6.6	
C4	13.2	21.9	23.4	18.5	17.9	5.1	17.6	25.3	25.7	13.4	11.4	6.6	
P4	19	19.2	25.2	17	15	4.5	25.2	24.4	20.8	15.3	9.6	4.7	
O2	26.7	25.7	19.4	13.4	11.2	3.5	20.9	27.3	22.8	13.4	8.9	6.7	
F8	20.8	23.9	20.9	11.7	16.2	6.4	20	26.4	23.7	10.7	12	7.2	
T4	17.4	18.9	20.8	15.5	19.1	8.3	30.7	15.7	19	13.1	12.5	9	
T6	19.9	18.4	18.4	13.2	17.1	13.1	18.5	14.9	15.7	11.2	19.8	19.7	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	18.4	21.7	23.2	16.3	10.4	10	36.3	26.1	17.8	8.3	6.9	4.6	
T3	16.7	23.1	17.5	15.3	14.8	12.5	23.7	22.5	20.6	8.4	12.7	12.1	
T5	15.8	18.5	21.6	25.7	10.2	8.1	21.9	27.3	23.7	12.2	7.2	7.7	
FP1	21.7	13.9	19.6	14	13.9	16.9	27.2	26.3	21	8.8	8.4	8.2	
F3	17.5	18.6	22.8	15.2	13.3	12.7	20	30.6	25.7	10.9	8	4.8	
C3	19.5	22.6	24.3	22.3	7	4.3	14.9	27	33.6	15.5	5.4	3.5	
P3	19.2	17.8	19.9	32.2	7	4	22.6	24.8	26	15.5	6.8	4.4	
O1	13.9	13.2	13.3	42.3	8.8	8.5	19	18	27.8	18.8	6.7	9.6	
FZ	21	22.7	27.8	16.9	7.3	4.3	20.5	27.1	29.5	12.7	7	3.1	
CZ	19.7	20.4	25.7	24.1	6.6	3.5	18.7	25	32.7	15.8	4.7	3.1	
PZ	19.9	18.3	18.5	33.5	6.7	3	23.3	22.4	27	16.7	6.6	4	
FP2	19.3	11.5	14.9	9.9	21.5	22.9	28.2	23.5	19.4	7.4	10.2	11.3	
F4	19.4	19.3	21.6	14.9	12.2	12.6	21.9	24.3	25.7	11.7	8.7	7.6	
C4	17.7	24.6	21.6	24.5	7.4	4.3	18.5	25.4	31.6	15.6	5.7	3.2	
P4	20	20.5	18.1	30.4	7.3	3.7	23.2	23.1	25.8	17.1	6.6	4.1	
O2	15.1	15	13	42.1	7.9	6.8	22	19	26.7	18.6	6.3	7.4	
F8	29.7	20.6	17.1	13.5	9.2	9.9	37.5	20.8	19.6	9.9	6.7	5.5	
T4	22.3	24.4	15.1	14.5	10.9	12.8	32	20	17.3	9.6	10.8	10.3	
T6	16.9	20.6	14	26.1	11.3	11.2	23.3	20.4	25.8	16.3	7.6	6.6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	18.9	21.2	24.2	17.9	10.9	6.9	31.8	27.4	15	11.9	7.8	6.1	
T3	16	18	24.9	12.6	14.9	13.7	20.2	24.9	15.4	9.8	15.4	14.5	
T5	17.9	15.5	19.1	11.9	17.5	18.1	15.7	24.7	23.3	17.8	8.8	9.6	
FP1	24.8	20.3	24.3	11	11.1	8.4	36.6	21.2	14.6	9.1	10.3	8.2	
F3	18.9	22.8	26.8	15.6	9	6.9	25.6	25.6	17.2	11.9	11.6	8.2	
C3	14.4	27	32.9	14.3	6.8	4.6	22.2	26.9	23.9	14.8	8.7	3.4	
P3	24.4	18.8	27.7	14.1	8.3	6.8	15.7	28.3	27.2	18.3	6.8	3.7	
O1	15.9	14.6	19.4	16	12.9	21.2	15.3	24.8	29.4	18.7	7	4.9	
FZ	20.6	21.1	27.6	18.6	7.3	4.8	26.2	24.7	24.4	13.3	7.8	3.6	
CZ	22	22.4	30	16.2	5.3	4.1	26.1	22.2	24.8	17.2	6.8	2.9	
PZ	24.1	20.8	29.9	13.2	6.9	5	22	27	25.9	14.9	7.4	2.9	
FP2	20.9	15	16.9	8.9	17.5	20.7	29.4	15.1	13.7	8.7	14.2	18.9	
F4	14.5	19	23.3	17	12.5	13.7	19.6	18.5	20.9	12	13	15.9	
C4	22	22.2	26.8	17.8	6	5.2	20	21.1	28.3	17.3	8.6	4.6	
P4	25.1	20.7	26.8	13.4	7.6	6.3	16.4	24	28	19.2	8.2	4.2	
O2	18.2	16.1	21.3	16	11.3	17	18.4	22.8	28.5	17.6	7.8	4.9	
F8	17.4	23.2	21.5	18	9.8	10.2	25.3	18.7	21.2	10.5	10	14.1	
T4	15.1	24.5	15.6	10.9	16.9	17	18.7	21.8	13.6	12.2	15.6	18.2	
T6	20.2	17	17.1	12.6	15.6	17.5	20.1	15.3	20.7	14.9	15.5	13.4	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27	25.2	21.2	12.6	7.5	6.5	37	21.6	19.5	11.2	6	4.6	
T3	23.7	18	19.2	11.9	14.9	12.3	23.6	22.7	27.4	12.4	6.6	7.3	
T5	25.4	17.9	23.2	16.7	9.2	7.6	18.4	20.6	26.6	16.5	8.8	9.1	
FP1	24.8	23.1	25.8	10.8	7.4	8.1	42.9	17.6	20.1	9.9	5.3	4.2	
F3	19.1	26.9	25.4	15	8.1	5.6	23.2	24.5	29	12.1	7	4.3	
C3	23.4	19.3	25.9	20.1	7.8	3.4	18.3	24.4	31.9	15.6	6.2	3.7	
P3	25.9	19.7	24.4	18.4	7.7	3.9	18.4	21.3	33.9	14.9	6.9	4.6	
O1	28.4	21	20.7	16.9	7.1	5.9	16.1	18.5	29.7	15.8	8.9	11	
FZ	21.6	26.4	25.2	14.7	7.3	4.9	20.3	24.7	32.9	13.2	5.2	3.6	
CZ	24.9	23	24.7	17.4	6.5	3.6	18.5	22.5	34.2	14.9	6.5	3.4	
PZ	27.1	22.8	23.1	17	6.8	3.2	22.7	21.9	31.4	13.8	6.4	3.8	
FP2	20.8	19.1	20.7	10	10.4	18.9	32.4	13.8	15.4	7.9	11.1	19.5	
F4	21.6	23.5	21.6	14.9	7.7	10.7	18.5	23.7	22.7	11.9	8.2	15.1	
C4	26	23.1	25.5	13.8	7	4.5	20.3	24.2	28.7	14.8	6.5	5.4	
P4	28.1	20	23.6	16.3	7.7	4.3	24	20.7	29.4	13.9	7.3	4.6	
O2	29	21.8	20	16.9	7.4	4.8	20.4	21.7	28	13.2	7.9	8.8	
F8	24.7	19.4	21	12.5	8.5	13.9	29.1	23.8	13.1	9.3	12.3	12.3	
T4	19.7	16.5	14.7	10	20.5	18.6	22.6	21.2	14.7	10.4	14	17.1	
T6	28.3	19	21.3	13.5	9.8	8.1	21.5	23.1	19.3	13	11.2	12	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.3	23.2	17.4	12	7.2	6.8	34	20.6	18.8	10.9	7.6	6.2	
T3	26.6	27.5	16.7	15.1	8.8	5.3	23.3	24.5	21.6	12.1	10.7	7.8	
T5	23.4	20.2	20	23	9.1	4.4	25.6	21.2	21.3	14.9	9.4	7.7	
FP1	32.9	26	19.7	11.1	6.2	4.1	33.3	23.9	19.4	10.7	7.3	5.4	
F3	26.2	25.5	22.3	13.4	8.2	4.3	24.9	21.6	26.2	12.5	9	5.8	
C3	30.2	24.3	15.7	19.7	6.7	3.3	25.8	21.5	25.9	15.6	7.4	3.9	
P3	28.3	22	17.6	21.5	7.4	3.2	26.6	23.9	23.9	12.9	8.3	4.4	
O1	24.2	19.8	16.7	28.4	7.8	3.1	22.3	19.6	21.9	19.9	8.9	7.5	
FZ	25.1	26.3	25.2	12.6	7.2	3.7	28.8	22.5	25.1	11.4	8.3	3.9	
CZ	27.4	29.3	19.6	14.9	5.5	3.3	28.5	23.2	24.9	13	6.9	3.6	
PZ	28	21.8	17.6	21.1	8.4	3.1	27.2	21.5	23.4	15.5	8.3	4.1	
FP2	34.2	25.2	20.3	9.9	6.3	4.2	34.7	22.9	19.1	11	7.1	5.2	
F4	25.4	25.7	24.2	12.1	7.3	5.2	29.3	21.6	23.6	12.1	8.4	4.9	
C4	25.5	23.2	17.4	23.3	7	3.8	28.2	18.4	21.7	19.7	7.8	4.2	
P4	25.4	21.6	17.1	23.6	8.9	3.4	28.2	21.2	21.9	15.2	9.1	4.4	
O2	25.1	22.9	16.5	25	7.9	2.6	21.3	19.2	26.8	17.8	9.4	5.5	
F8	35.4	22	20.6	9.9	5.7	6.5	38.9	27.4	17.7	7.1	4.4	4.6	
T4	23.3	17.6	15.2	13.3	12.5	18.1	27.7	15.9	13.8	9	12.9	20.6	
T6	23.1	21.9	19.6	21.3	9.8	4.3	29.4	18.3	20.8	14.2	11.4	6	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.5	23	19	11.4	8.7	8.3	31.2	23.5	20.7	10.9	6	7.7	
T3	21.5	20.7	17.4	16.2	12.1	12.2	20.2	22.9	24.4	13.9	10.7	8	
T5	18.9	17.7	17.9	16.9	14.3	14.2	28.3	19.5	25.7	11.6	9.3	5.6	
FP1	30.6	22.7	22.5	11.1	7.5	5.7	38.1	25	17.5	9.1	5.4	4.8	
F3	24.6	24.5	25.9	11.1	8.6	5.3	28.6	23.7	27.6	9.7	5.7	4.6	
C3	24.8	25.5	24.7	12.5	7.5	5	22.7	22.1	27.8	18.6	5.2	3.5	
P3	23.8	23.1	22.6	13.7	9.6	7.2	26.2	19.5	27.8	15.2	7.5	3.8	
O1	23.1	16	16	17.8	11.3	15.8	30.5	19.8	25.1	12.7	7.4	4.5	
FZ	27.6	23	26.4	11	7.8	4.2	29.3	22.6	28.7	9.7	5.8	3.8	
CZ	23.6	25.5	25.4	14	7	4.5	22.7	23.4	33.7	12.1	4.8	3.3	
PZ	23.5	24	20.1	17.1	9	6.3	28.4	19.8	26.1	16.1	6.3	3.3	
FP2	30.3	20.2	23.6	11.4	8	6.6	37.5	28	15.9	8.9	5.3	4.4	
F4	24	23.1	26.4	11.4	9	6	28.9	26.3	23.2	10.4	6.3	5	
C4	19.5	19.6	19.5	28.5	7.8	5.1	20.7	18.9	24.8	24.6	6.4	4.6	
P4	21.3	22.6	19.5	18.5	10.7	7.4	27.1	20	24.1	17.5	7.5	3.9	
O2	19.8	19.3	16.3	21.7	10.7	12.2	31.3	20.3	25.9	12.4	7	3	
F8	34.5	23.6	20.5	8.2	5.6	7.6	34.5	24.3	18.8	8.8	5.5	8	
T4	18.2	15.4	10.1	8.5	15.2	32.6	23	20.7	16.2	11.2	12.4	16.5	
T6	20.2	19.1	17.8	16.7	13.6	12.6	28.1	18.1	22.2	16	10.5	5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.9	18.3	22.1	10	8.8	12.8	31.6	19.8	22.3	10.6	8.4	7.4	
T3	21.4	19.1	19.5	14.3	13.6	12.1	26	21.7	19.2	15.1	9.8	8.2	
T5	17.5	15.3	22.6	28.9	10.2	5.5	24.6	17.5	21.2	18.5	9.8	8.4	
FP1	32.3	18.4	26.3	9.8	7.2	6	32.2	19.9	22.5	11.8	7.4	6.2	
F3	26.5	16.6	30.9	11.5	8.3	6	23.1	21.2	30.3	12.4	8.3	4.8	
C3	24.3	20.6	27.2	16.4	7.9	3.6	22.5	21.5	28.3	15.2	8.2	4.3	
P3	22.7	19.3	23.5	22.7	8.6	3.1	30.1	22.1	21.6	13.8	8	4.4	
O1	20.8	19.4	17.4	28.3	9.3	4.7	29.3	19.8	16.2	17.3	9.1	8.3	
FZ	26.1	18.1	31.9	12.1	7.7	4.2	22.9	24.4	28.6	11.8	8.1	4.1	
CZ	25.3	23	26.3	16.2	6	3.2	24.6	24.8	25.5	13.8	7.5	3.8	
PZ	23.8	18.4	21.6	25.8	7.9	2.5	26.8	22.6	22.8	15.9	7.8	4.1	
FP2	26.2	20.5	28.5	10	8.1	6.6	31.7	21.7	19.7	9.3	8.5	9.2	
F4	23.8	19.1	30.6	11.7	8.9	5.8	24.7	24.5	22.3	12.2	9.6	6.8	
C4	18.1	17.7	23.4	28.7	7.7	4.4	21	20.4	21.7	24.5	7.7	4.7	
P4	21.7	19.2	20.6	27	8.4	3.2	27.4	21.6	20.7	16.9	9	4.3	
O2	17.9	21.9	20	25.2	11.6	3.4	30.2	22	17	17.7	7.9	5.4	
F8	32	27.1	21.8	5.5	5.1	8.5	35.3	23.5	18.4	7.1	6.8	8.8	
T4	14.5	17.8	20	10	15.6	22.2	19	16.9	13	9.5	16	25.7	
T6	17	21.8	23	22.7	10.7	4.8	25.2	19.4	19.5	18.2	10.2	7.5	

17X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	34.1	23.2	19.8	12.6	6.1	4.5	24.7	21.4	23.8	10.7	10.8	9	
T3	21.7	19.2	12.2	8.7	14.1	24.1	15.5	15.2	16.2	6.7	16.5	29.9	
T5	24	26.3	21.2	16.1	7.2	5.2	20.9	22.9	27.1	13	8.8	7.3	
FP1	30.7	23	23.7	11	6.7	4.8	26.7	24.5	27.3	11.5	5.9	4.2	
F3	29.8	25.5	23.1	13	5.5	3.2	25.6	25	29.9	10.9	5.3	3.3	
C3	27.1	27.6	21.9	16.2	4.8	2.6	23.5	21	31.1	11.3	7	6.1	
P3	24.4	28	22.6	17.3	4.9	2.7	21.9	20.9	33.7	14.6	5.2	3.7	
O1	19.1	24.5	20.6	18.6	8.7	8.5	14.4	19.7	25.2	16.7	10.5	13.6	
FZ	29.7	24.8	24.8	13.9	4.6	2.1	24.3	24.9	32.4	11.5	4.4	2.6	
CZ	24	25.4	25.4	19.3	4	1.9	22.2	21.5	36.9	13.4	3.9	2.1	
PZ	25.2	25.3	23.9	19	4.5	2.1	18.9	19.5	39.9	15.9	3.7	2.1	
FP2	31.1	22.1	24.7	11.5	6.1	4.5	27.7	23.9	25.5	10.7	6.3	5.9	
F4	26	23.1	24	15.1	7	4.8	21.7	24.9	30.8	12.1	6.4	4.4	
C4	25.7	27.2	20.9	18.7	5.1	2.4	22.4	21.4	33.1	14.7	5.4	3.1	
P4	24.4	25.2	23.3	19	5.7	2.4	19.5	21.3	36	15.9	4.6	2.8	
O2	20.2	24.7	19.6	18.9	9.3	7.4	16.7	20.2	25.7	15.3	9.7	12.4	
F8	30.5	23.8	22	12.7	7	4.1	32.6	23.7	21.2	10.6	6.9	4.9	
T4	22	19.7	17.7	13.1	16	11.6	15.5	18.2	19.6	9.7	17.4	19.5	
T6	25.4	25.7	21	18	6.7	3.3	17.7	20.3	35.7	16.2	6	4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.1	23.9	17.7	12.3	8.9	8.1	38.1	20.7	22.1	10.6	5.2	3.4	
T3	22.9	18	15.5	12.3	13.4	17.9	22.2	17.3	14.3	7.6	10.4	28.1	
T5	22.9	19.5	20.8	15.8	10.8	10.2	25	23.9	20	13.9	8.8	8.5	
FP1	28.5	21.3	27.1	14.6	4.5	4.1	37.9	21.1	24	9.1	5	2.8	
F3	21.5	26.8	26.8	15.7	5.6	3.6	32.1	24.6	25.2	10.4	4.7	3	
C3	19.7	26.5	23.5	17.1	6.4	6.8	28.2	25.6	22.2	14.3	5.6	4	
P3	25.9	24.5	21	16	6.7	5.9	28.7	25.9	19.4	14.4	6.8	4.9	
O1	19.2	18.2	15.8	16.1	12.4	18.3	15	22.4	15.7	15.7	14.6	16.6	
FZ	21	24.4	32	15.3	4.4	2.9	29.9	23.7	28.9	10.2	4.6	2.7	
CZ	21.8	23.5	28.8	17.9	4.5	3.6	28.6	27.3	24.9	12	4.5	2.7	
PZ	26.6	24.4	22.8	16.1	5.1	4.9	32.8	26	17.8	12.9	5.2	3.2	
FP2	28.4	20.7	29.4	13.4	4.2	3.9	38.1	19.8	24.8	9.5	4.9	3	
F4	20.4	23.1	31.7	14.2	5.8	4.8	29.2	24.8	25	12.2	5.4	3.5	
C4	20.6	20.2	30	17	6.1	6	25.1	27.3	21.8	17.3	5.5	3	
P4	24.6	22.5	22.4	16.1	6.2	8.2	27.1	30.9	17.1	14.8	6.1	3.9	
O2	16.6	13.1	12.5	14.4	12.9	30.4	16.9	25.3	14.8	14.1	13.4	15.5	
F8	21.9	21.4	28.3	15.8	5.6	7	36.7	21.2	20.5	11.6	5.3	4.7	
T4	16.9	17.2	21.2	11.4	18.9	14.4	21.9	27.2	18	13.9	10.3	8.7	
T6	26.3	21.6	18.6	12.5	9.8	11.2	21.8	31.5	20.8	12.6	7.6	5.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.8	25.5	22.6	12.5	6.6	5	29.2	24	18.7	11.6	9.1	7.5	
T3	13.7	13.6	11.1	7.5	19.8	34.2	21.2	18.1	13.8	8.1	16.7	22.1	
T5	21.6	21.5	24.5	16.1	9	7.3	30.9	23.9	17.8	12.5	7.7	7.3	
FP1	32	23.8	23.9	10.4	5.7	4.3	34.6	25.6	20.1	8.8	6	4.9	
F3	25.4	24.9	29.8	11.4	5.2	3.3	30.7	31	18.6	10.9	4.8	4	
C3	25	21.6	28.8	17.4	4.6	2.6	25.1	26.8	20.4	11.6	7.7	8.5	
P3	23.1	21.2	28.5	18.4	5.9	3	31.4	27.4	17.3	12.4	6.2	5.3	
O1	19.4	16.4	20.5	18	12.1	13.6	24.2	23	15.9	15.5	10.3	11.2	
FZ	26.6	26.2	28.8	11.8	4.3	2.3	27.5	32.7	21.6	10.5	4.6	3.2	
CZ	26.1	21.9	31.7	14.8	3.8	1.7	32.8	27.7	20.9	11.1	4.5	3.1	
PZ	26.3	20.1	30.1	17	4.8	1.8	30.8	29.4	18.3	12.8	5.1	3.9	
FP2	31.5	22.9	24.8	10.7	5.3	4.7	34.7	23	21.2	8.6	5.8	6.7	
F4	23.9	26.1	26.4	11.5	6.9	5.1	25.9	30	21.2	10.7	6.8	5.5	
C4	28.3	26.3	25.9	12.6	4.6	2.4	32	29	19.4	9.5	5.5	4.6	
P4	29.5	21.9	26.9	14.3	5.4	2	34.3	29.7	16.3	9.5	5.3	4.8	
O2	24.4	21.5	21.6	15.8	9.6	7.1	22.9	20.5	10.9	13.8	12.9	19	
F8	34.6	23.6	21.3	10.2	5.3	5	38.1	25.1	17.2	8.1	5.3	6.1	
T4	21.4	20.5	13.7	8.3	16.9	19.2	24.9	19.4	12	6.2	17.7	19.9	
T6	24.1	25.3	27.1	14	6.5	3.1	35.5	25.2	16.1	9	7.2	7	

18X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	12	19.3	23.4	13.7	13.6	18.1	25.8	18.4	24.5	9.4	10.3	11.6	
T3	18.3	16.6	24.4	12.4	13	15.3	23.4	17	26.9	9.3	12.3	11.1	
T5	15.1	14.4	24.1	32	9.2	5.1	19.9	16.5	30.6	19.9	8.8	4.2	
FP1	20.4	16.8	24.9	14.9	13.5	9.6	29.2	20.5	25.2	11.2	9.3	4.8	
F3	15.7	20.6	28.9	16.9	11.3	6.7	18.8	22.3	28.6	11.9	12.9	5.4	
C3	14.6	17.4	27.8	28.2	8.3	3.7	18.8	19.1	31.3	17.3	8.7	4.8	
P3	15.8	16.8	22.9	34.2	7.7	2.5	25.4	17	21.9	26.3	6.4	3	
O1	16	16.5	20.1	34.5	8.8	4	14.7	13.6	18.6	25.6	13	14.5	
FZ	18	17.8	34.8	16.4	9.4	3.5	19.4	24.3	31.3	11.7	10.1	3.2	
CZ	12.5	18.2	36.8	22.5	7.1	2.9	18.9	24.1	31.9	15.3	6.7	2.9	
PZ	11.2	14.2	22.2	44.3	6.2	1.9	23.4	15.8	21.5	31.2	5.8	2.3	
FP2	21.1	15.9	27.3	15.3	12.5	7.9	26.7	19.8	28.4	10.6	9.6	4.9	
F4	15.1	18.5	30.4	15.7	12.4	7.9	18.1	20.6	31.4	12.3	11.4	6.1	
C4	16.1	18.9	28.8	25.3	7	3.8	21.8	17	25	20.9	10.5	4.8	
P4	15.2	13.7	19.8	43.9	5.4	2	26.2	18.5	18.8	24.8	7.5	4.2	
O2	18.2	15.5	19.1	32.1	8.5	6.6	13.2	11.3	13.3	20.7	16.2	25.4	
F8	16	14.7	22.7	13	14.2	19.3	21.8	16.5	24.7	10.7	13.9	12.5	
T4	18.4	12	13	12.4	21.2	23	8.6	6.5	10.1	7.8	29.3	37.7	
T6	16.4	13.8	25	27.8	10.1	6.8	20.1	16.5	24.3	19.4	10.9	8.9	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.3	14	24.8	10.9	8.4	12.5	28.6	17.2	25.4	11.1	7.8	9.9	
T3	22.8	11.7	35.8	13.4	8.8	7.6	17.5	15.8	33.5	11.9	10.1	11.3	
T5	19.4	17	34.6	15.6	9.3	4.1	23.2	25.7	26.8	14.7	6.5	3	
FP1	33.4	23.5	23.9	9	6.4	3.9	34.9	20.6	26.2	8.5	6.7	3.1	
F3	22.7	21.1	31.8	10.3	8.3	5.7	19.9	18.2	34.8	12.8	9.6	4.7	
C3	19.9	24.1	29.1	15.5	7.3	4.1	16.3	20.4	34.2	19.1	6.2	3.8	
P3	22.3	20	27.6	18.8	8.1	3.2	16.5	22.7	29.2	22.6	6.4	2.7	
O1	18.6	20.8	19.2	17.4	12	12	20.7	27.7	20.9	17.6	8.4	4.6	
FZ	25.6	25.3	29	9.2	7.8	3.1	26.3	21.9	33	8.5	7	3.3	
CZ	27.2	23.6	26.9	14.3	5.5	2.5	12.9	24	37	16.9	6	3.1	
PZ	27.5	21.1	18.4	23.5	6.6	2.9	19.5	23	23.3	25.2	6.6	2.4	
FP2	35.4	24.8	21.5	8.4	6	4	35.7	23.7	23.4	7.6	6.1	3.6	
F4	26.8	26	25	8.4	8.8	4.9	24.4	22.7	30.1	9.2	8.1	5.5	
C4	28.6	18	25.7	16.8	6.9	4	11.7	20.8	35.8	20.3	7.4	4	
P4	23.9	20.5	21	22.5	8.4	3.7	18.3	24.8	25.3	21	7.6	3	
O2	11.3	16.2	12.8	17.7	18.2	23.8	19.3	25.2	18.8	15.8	10.8	10.1	
F8	32.6	19.1	19.8	9.4	7.9	11.1	30.7	20.7	20.5	8.6	8.2	11.3	
T4	19.7	14.5	17.7	9.9	19.6	18.7	10.1	11.7	13.2	8	28.5	28.4	
T6	18.5	22	19.1	17.1	13.9	9.4	24	19.2	26.2	14.4	10.4	5.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	30.9	20.1	21.7	8.7	8.9	9.7	21.8	25.1	20.2	9.7	10.6	12.6	
T3	25.7	21	22.7	11.5	9	10.2	19.3	29.2	26.9	12.4	7.1	5.1	
T5	14.3	14.6	37.6	23.5	6.9	3	15.8	25.6	28.3	17.8	7.6	4.8	
FP1	31.7	18.7	19.9	8.6	10.6	10.5	29.5	22.7	26.8	9.1	7.9	4	
F3	26.4	19.4	31.4	10.4	8.4	4.1	19.6	27.5	25.5	10.6	11.9	4.9	
C3	15	19.9	28.1	27.8	6.5	2.7	20.1	28.3	29	12.9	6.5	3.1	
P3	18.5	16.4	28.6	28.5	6.2	1.9	21.7	20.3	28.4	19.4	6.9	3.3	
O1	15	15.6	22.5	29.3	10.3	7.4	11.5	13.9	19.2	17.2	15.4	22.8	
FZ	28.5	20.3	29.4	11.3	7.3	3.2	20.1	24.6	30.9	10.1	10.6	3.7	
CZ	15.3	22.1	35.3	18.8	5.9	2.6	20.5	25.5	30.2	15.4	5.7	2.6	
PZ	16.8	16.3	23.9	34.4	6.6	2	19.1	18.8	25.6	27.3	6.2	3	
FP2	33.2	19.2	19	8.5	10.7	9.3	31.3	21.7	24.9	8.9	7.9	5.4	
F4	25.3	18.6	26	11	11.8	7.2	20.8	22.7	29.1	11.2	9.6	6.6	
C4	20.4	19	27.8	22.1	6.6	4.1	16.7	17.5	28	27.2	6.6	4	
P4	18.6	16.8	21	32.8	7	3.7	20.2	17.7	25	24.6	7.1	5.5	
O2	10.9	13.7	16.3	26.6	13.6	18.8	8.7	9.6	11.7	18.6	16.9	34.6	
F8	34.1	19.3	20.5	10.3	8.2	7.6	28.2	18.7	23.1	10.6	8.9	10.6	
T4	10.2	6.4	8.2	7.6	21.1	46.5	22.1	16.3	19.9	15.1	12.4	14.1	
T6	16.5	15.1	22.5	26.9	11	8	19.9	17.4	23.3	19.7	8.8	10.9	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.7	21.4	21.3	15.8	7.2	7.7	26.5	23.7	29	12.1	5.2	3.6	
T3	19.6	18.6	21.6	20.5	10.2	9.5	30.3	21.2	24.7	13.8	6.5	3.5	
T5	17.1	15.2	21.4	32.1	9	5.2	23.4	19.4	18.7	25.6	8.4	4.6	
FP1	30.7	22.3	21.1	14.4	6.6	4.8	33.5	24.3	28.5	8.7	3.3	1.6	
F3	25.4	25.6	23.7	15.9	5.9	3.5	25.7	27.4	29.1	11	5.1	1.7	
C3	17.1	19.3	24.8	29.9	6.2	2.7	25.9	23	24.6	19.9	5	1.6	
P3	13.8	15.7	22.2	40.7	5.5	2.2	22.6	17.3	20.6	32	5	2.5	
O1	20.7	21.9	17.2	24.7	6.9	8.6	17.2	17.1	16.5	23.1	11.3	14.9	
FZ	29.7	25	22.7	14.7	5.3	2.5	30.1	27.3	29.3	8.2	3.7	1.3	
CZ	18.6	18.5	21.3	34.9	5.1	1.5	23.7	23.4	23.7	23.4	4.7	1.2	
PZ	15.1	17.5	22.8	38.1	5.1	1.4	22.7	17.7	20	33.7	4.5	1.4	
FP2	31.8	22.8	21.1	14.2	6	4.2	33.1	24.9	29.3	7.1	3.6	2	
F4	29.4	23.6	22.3	15.5	6.4	2.8	27.2	26	29.7	10.3	5	1.8	
C4	20.3	17.6	24	29.9	6.2	2	23.2	22.6	25.7	22.3	4.9	1.3	
P4	14.4	14.7	23.7	40.1	5.3	1.8	25.6	18.4	20	30.6	3.9	1.5	
O2	21.7	21.3	17.6	27.3	6.1	6	20.6	18.7	18.6	26.8	7.2	8.1	
F8	31.4	18.5	21.6	17.5	6.4	4.5	29	23.7	29.4	10.8	4.6	2.5	
T4	21.5	17.1	18.1	22.5	10.3	10.5	23.5	25.2	24.8	16.2	7.1	3.2	
T6	14.4	16.7	21.8	37.5	6	3.6	19.8	20.7	22.5	29	4.8	3.2	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.1	20.8	27.3	11.3	7.3	6.2	30.4	23.5	23.4	12.8	6.5	3.5	
T3	23.6	22	33.6	11	6.6	3.2	28.1	22.9	25.7	12.4	7.4	3.5	
T5	17.5	23	26.8	16.5	9.1	7.1	27.4	22.4	21.2	19.4	6.5	3.1	
FP1	26.5	25.6	33.4	6.5	4.5	3.5	31.1	24.6	25.9	9.9	5.6	2.8	
F3	21.8	24.5	35.8	9.4	5.5	3	23.4	28	26.9	13.5	6	2.1	
C3	21.7	24.5	33.6	13.7	4.4	2	21.5	22	25.1	24.2	5.5	1.7	
P3	22.5	23.9	27.3	17.4	5.3	3.5	26.2	21.2	21.6	24.6	4.7	1.7	
O1	11.1	14.6	18.6	18.4	13.1	24.1	23.7	19.4	14.9	20.1	9.1	12.8	
FZ	21.5	23.9	40.8	8.5	3.9	1.5	26.2	26	30.2	10.5	5.4	1.8	
CZ	20.5	20.2	32.5	21.9	3.4	1.5	24.3	25.4	21	23	4.9	1.4	
PZ	23.5	21.4	28.2	20.1	4.4	2.4	29.3	21.2	18.6	25.1	4.5	1.4	
FP2	25.4	23.8	33.9	7.9	5.2	3.8	31.3	24.9	25.3	10	5.7	2.8	
F4	22.7	22.6	36.2	10.3	4.6	3.6	25.2	26.8	26.6	13.2	5.9	2.2	
C4	19.9	18.8	32.7	23.1	3.9	1.7	21	21.3	19.9	31.2	5.1	1.6	
P4	21.4	20.6	31.3	18.5	5.2	3	27.8	20.2	19.3	26.6	4.6	1.6	
O2	12.8	17.1	23.3	18.5	12	16.3	25	20.8	15.9	20.9	8.2	9.2	
F8	25.9	22.8	29.6	12.4	5.3	4	29.8	24.6	23.8	12.6	5.9	3.3	
T4	26.3	18.9	26.3	14.5	8.6	5.4	25.4	24.7	21	16.8	8.1	4	
T6	21.3	21.2	26.1	16.3	7.9	7.3	25.5	20.8	19.2	25.9	5.5	3.1	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	26.8	19.5	25.8	15.3	7.7	4.9	30.9	22.2	25.5	11.6	5.4	4.3	
T3	26.4	20.1	24.4	15.3	9.8	4	26.9	24.8	27.9	10.9	6.2	3.2	
T5	18.3	18.7	26.8	24.1	7.1	4.9	19.9	22.8	31.2	15.6	6.4	4	
FP1	29.8	20.4	28.5	13.4	5.2	2.7	31.3	22.6	31.8	9.1	3	2.2	
F3	24.8	24.2	28.9	13.9	6	2.1	27.6	24.5	31.9	10.8	3.5	1.7	
C3	24.8	23.1	25.1	19.4	5.9	1.8	22.7	26.8	30.6	14.5	3.7	1.8	
P3	21.4	19.2	23.3	28.9	5.3	1.7	22.5	24.7	28.8	17.9	3.9	2.1	
O1	14.5	17.3	20.6	26.5	9	12.1	16.6	19.6	20.1	17.1	11.9	14.7	
FZ	26.3	24.1	30.4	12.3	5	2	23.2	23.8	38.1	10	3.4	1.5	
CZ	19.5	22.3	26.2	24.7	6.2	1	22.4	27.4	29.6	16.3	3.2	1.2	
PZ	22.4	21	22.2	27.9	5.4	1.1	27.1	25.2	24.3	18.8	3.3	1.4	
FP2	29.5	20.7	29.3	12.9	5	2.5	29.1	21.4	33.7	9.8	3.4	2.7	
F4	26.2	26.6	28.7	12.2	4.8	1.6	24.8	24.4	32.3	12.1	4.5	1.8	
C4	26	25.8	24.4	17.4	5.3	1.1	20.2	26.1	30.6	17.4	4	1.6	
P4	22.2	23.1	23.5	25.2	5	1.1	26.6	25.4	25.2	17.5	3.8	1.6	
O2	19.8	21	21.9	24.1	6.4	6.8	20	24.2	20.9	15.1	8.6	11.1	
F8	27.8	25.4	25.7	12.6	5.8	2.8	26.9	22.4	31	12	4.4	3.3	
T4	26.7	25.8	23.4	13.9	7.4	2.8	23.9	25.5	25.6	14.3	7.2	3.4	
T6	20.6	22.9	24.8	24.6	4.8	2.3	23.5	24.3	25.6	17	5.4	4.2	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	40	20.4	10.5	12.9	8.4	7.8	40.9	21.5	14.5	7.2	8	7.9	
T3	27.1	18.7	13.6	20.9	10.4	9.3	22.4	20.4	16.1	9.1	12.4	19.7	
T5	18.6	20	16.1	26.8	13.1	5.4	18.6	19.4	25.8	11.2	13.7	11.3	
FP1	27.8	19.2	11.6	15.5	9	16.9	30.4	22.6	20.2	10.1	8.9	7.8	
F3	22.6	22.9	12	18	10.9	13.7	26.8	21	23.6	9.1	10.4	9.1	
C3	23.2	24.2	16	25.8	6.9	3.8	27.4	25.4	24.8	11.3	6.5	4.4	
P3	23.3	20.4	15.8	28.5	8.9	3	22.3	23.5	30.7	11.9	8	3.6	
O1	23.7	24.2	15	22.5	10.8	3.8	18.3	17.2	30.7	17.3	11.3	5.3	
FZ	26.5	25.7	16.5	20.3	6.7	4.4	26	22.7	29.9	10.6	6.2	4.6	
CZ	27	25.6	14.1	25.6	5.1	2.6	34.7	24.1	22.6	10.6	5	3	
PZ	24.3	19.7	12.9	34.9	6	2.2	25.8	22.6	29.4	12.8	6.5	2.9	
FP2	26.8	19.8	11.4	14.6	11.8	15.7	27.2	20.5	21.9	11.9	9.5	9	
F4	24.9	24	11.8	15.1	13	11.1	27.5	21.6	24.3	10.4	7.9	8.3	
C4	25.9	25.1	13.6	25.8	6.2	3.3	30.1	23.1	24.9	11.4	6.7	3.9	
P4	20.3	20.3	13.7	35.2	7.7	2.8	24.4	22.5	28.9	13.3	7	3.9	
O2	23.3	24.2	14	25.6	9.3	3.6	18.7	19.2	32.7	16	8.8	4.6	
F8	24.8	21.1	12.6	13.8	10.4	17.3	25.9	20.3	22.5	12.3	9.3	9.8	
T4	18.1	17	11.6	29.7	12.6	11.1	21.6	18.7	17.7	18.2	13.2	9.5	
T6	24	22.4	13.3	23.5	11.1	5.8	20.9	21.6	21.5	15	11.2	9.8	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	42.6	17.9	11.7	12.2	6.8	8.8	48	19.3	11.7	10	6.3	4.8	
T3	30.9	13.4	14.7	13.5	9.2	18.3	22.8	18.2	13.2	15.5	12.7	17.5	
T5	17.5	13.8	13.2	13.3	18.3	24	24.2	31.5	15.9	13.5	9.4	5.5	
FP1	26.3	28.7	14.6	17.3	7.6	5.5	43.3	20.3	13.5	12	6	4.9	
F3	28.2	19.3	16.8	15.6	11.8	8.3	40.6	20.9	14.5	13.3	5.5	5.3	
C3	25.2	20	22.9	19.4	7.4	5.1	31.2	19.3	19.8	20.3	5.6	3.8	
P3	23.8	21.3	21	14.8	12.1	7	27.7	22.6	20.5	17.4	7.8	4	
O1	19.8	16.2	15.4	13	17.9	17.7	25.2	23.8	22.4	14.8	9.6	4.2	
FZ	23.1	22.9	20.9	19.4	8.3	5.4	36.4	22.9	20.5	12.4	5	2.9	
CZ	19.2	20.6	27.7	20.4	7.3	4.7	34.5	19.5	20.2	17	5.6	3.2	
PZ	19.5	22.6	27	17.1	8.9	4.8	24.7	21.4	21.1	21.2	7.7	3.9	
FP2	26.5	27.8	15.3	15	8.2	7.2	38.6	22.2	16.7	12.2	5.3	5	
F4	20.2	21.8	19.7	16.2	11.8	10.3	32.2	22.1	21	12.1	7.2	5.5	
C4	16.1	24.4	26.1	18	9.3	6	28.1	17.5	26.2	17.3	6.9	4	
P4	20.9	24.2	25.8	14.7	9.2	5.1	22.6	22.5	23.3	19.1	8.1	4.5	
O2	17.4	17.5	17.7	14.3	20.1	13	21.4	23.5	27	15.7	7.6	4.9	
F8	31.9	17.4	16.5	15.7	9.1	9.5	35.4	17.5	20.4	10.6	8.1	8.1	
T4	14.4	15.9	8.5	20.2	14.6	26.4	16.1	16.7	17.9	24.3	13.4	11.6	
T6	15.4	17.9	16.3	14.7	13.7	22	24.8	23.1	18	18.3	9.3	6.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	40.3	18.6	15.6	11.4	7.3	6.8	39.1	24.2	12.5	8.5	7	8.6	
T3	20.3	14.4	12.2	9.7	14.8	28.6	25.4	16.3	12.4	20.4	9.6	15.9	
T5	25.9	24.9	18.3	16.9	10.3	3.7	14.7	14	17.4	20	16	18	
FP1	30.8	22.6	18.1	12.5	8.4	7.6	28.7	28.8	16	11.7	7.6	7.2	
F3	29.8	22.7	15.9	11.7	10	9.8	26.4	25	20.7	12.6	7.5	7.8	
C3	32.9	25.9	18.4	13.6	5.9	3.4	16.3	18.3	25.7	26.6	7.7	5.4	
P3	28.1	23.7	18.3	19.2	8.1	2.5	15.9	17.2	24.4	24	11.5	6.9	
O1	30.5	27.4	16.3	13.7	9.9	2.3	16.1	12.9	20.2	15.7	16.2	18.9	
FZ	28.3	25.7	22.9	11.9	6.9	4.3	26.3	24.6	23.1	12.6	7.5	5.6	
CZ	29.8	27.6	19.5	14.7	5.5	2.9	18.8	23.2	28.6	17	7.9	4.6	
PZ	29.4	24.6	15.9	21.3	6.6	2.1	17.7	20.2	27.5	19.7	9.5	5.4	
FP2	28	25.3	17.9	13.3	8.1	7.5	32.8	26.9	14.9	11.4	7.2	6.8	
F4	23.9	25.4	21.6	12.5	9	7.6	29.9	26.4	18.6	10.6	7.2	7.4	
C4	28.9	25	21.1	14.7	6.5	3.7	17.5	22.9	28.3	17.1	8.5	5.6	
P4	31.3	23.3	16.2	19.7	7.2	2.3	23	20.4	23.6	17	9.8	6.2	
O2	30	26	16	16.9	8.6	2.5	16.5	16.5	20.9	16.1	14	16	
F8	27.6	22.2	17.3	13.8	10.3	8.8	32	28.1	14.1	11.2	7.2	7.4	
T4	24.4	18.3	16.9	11.1	13.3	15.9	20	15.8	12.1	27.5	10.7	13.9	
T6	27.7	20.7	19.9	15.7	11.7	4.2	18.5	15.6	15	16.1	15.8	19	

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	27.7	20.8	18.3	18.1	9.9	5.1	33.9	19.7	18.3	10.1	10.3	9.7	
T3	14.4	10.6	9	12.5	32	21.5	10.1	12.4	10.1	6.6	31.6	29.2	
T5	20.9	15.7	22.3	28.3	9.7	3	17.9	23.6	22.4	15.9	10.7	9.4	
FP1	25.3	21.7	18.1	21	8.1	5.9	32.7	23.8	19.5	10	8	6.1	
F3	24.8	26	20.8	18.2	6.8	3.4	30.2	23.6	25.2	9.7	7.2	4.1	
C3	17.9	16.9	18.6	39.2	5.5	1.8	21.7	19.8	22.6	25.6	7.8	2.5	
P3	22.9	15.2	18.7	36.3	5.5	1.4	22.5	21.7	27.3	18.3	7.1	3.1	
O1	25.2	20.3	19.9	24.1	7.2	3.2	16.1	20.9	26	13.6	11.8	11.6	
FZ	21.5	27	23.1	18.9	6.6	2.9	27.9	26.4	26.6	10.5	6.3	2.3	
CZ	19.6	21.7	25.4	25	6.4	1.8	26.1	26.5	24.8	14.6	6	2	
PZ	22.5	17.6	20.8	33.1	5	1	23.5	25.4	25.2	16.5	6.7	2.6	
FP2	25.8	22.1	19.5	19	8.9	4.8	32.8	22.3	20.6	10.3	8.8	5.3	
F4	23.3	26.1	22.9	17.2	7.2	3.3	29	22.5	27	10.9	7.6	3	
C4	18	17.3	20	36.2	6.3	2.3	26	22	25.7	16.6	7.2	2.6	
P4	22.7	19.8	18.5	31.5	5.9	1.6	28.4	25.5	21	15.7	6.3	3.2	
O2	22.8	23.8	20	24.1	7	2.3	20.1	22.1	26.1	11.4	10.6	9.7	
F8	25.4	23.8	20.7	15.1	9.8	5.1	21.6	21.8	26.2	12	11.6	6.8	
T4	13.5	10.8	10.5	12.2	22.5	30.6	11.1	7.7	7.3	6.7	31.1	36.1	
T6	17.3	22.1	25.3	24.6	8.3	2.5	20.6	24.4	28.7	12.3	8.6	5.4	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	15.9	26.2	20.9	15.7	10.1	11.3	39	28.7	14.6	10	4.9	2.8	
T3	13.6	15.1	10.7	9.6	23.4	27.7	14	10.9	8.2	11.1	33.5	22.4	
T5	19.3	18.7	12	10.6	19.7	19.7	19.9	23.3	17.8	15.4	12.9	10.8	
FP1	20.9	28.2	21.6	11.2	9.6	8.5	33.6	29.9	15.9	11.6	5.9	3	
F3	20.7	30.3	25.2	11.5	7.9	4.3	25.9	27.5	21.2	16.7	5.9	2.8	
C3	23.7	31.1	23	13.1	5.8	3.3	14.6	17	22	39.3	5	2.1	
P3	26.7	30.1	18.4	12.2	7.6	5.1	19.4	21	25.4	22.7	7.5	3.9	
O1	18.5	20.1	14.1	13.8	13.2	20.3	15.7	20.9	23.4	14.8	10.1	15.1	
FZ	17.8	31.8	26.5	14.1	7.1	2.8	24	26.6	23.9	18.4	5	2	
CZ	23.3	28.7	23.2	15.9	5.9	2.9	21.5	23.7	28.4	18.7	5.1	2.6	
PZ	24.9	31.4	18.3	15.5	6	3.9	22.4	22.9	25	19.5	6.9	3.3	
FP2	28.3	27.6	16.1	10.1	9.6	8.3	37.3	30.4	14.6	10.3	4.9	2.6	
F4	25.6	30.8	20.1	12.5	7.4	3.7	27.4	24.2	21.9	17.7	6.5	2.4	
C4	22.9	25.8	18.3	24.4	5	3.5	15.9	17.5	21	35.5	6.9	3.2	
P4	25	32.2	17.3	14.6	5.6	5.3	20.6	20.1	23.1	22.8	8.6	4.8	
O2	17.9	21.6	14.4	13	11.7	21.5	14.3	21	21	15.1	12.5	16.1	
F8	23.6	26.6	20.4	11.5	9.8	8.1	31.2	30	15.7	11.8	7.6	3.8	
T4	10.4	12.4	11.4	12.4	24.8	28.7	10.4	12	7.7	5.9	38.1	25.9	
T6	22.8	24.8	16.3	10.3	11.8	14.2	20.4	23.2	20.4	15.4	10.8	9.8	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.8	17.8	16.7	11.6	10.5	17.6	26.9	19.9	17.2	10.5	11.1	14.4	
T3	10.5	8.2	7.8	10	34	29.5	23.5	15.9	15.2	14.1	16.3	15.1	
T5	32.9	18.8	18.9	16.3	9.2	3.8	18.5	15.7	17.5	11.3	18	18.9	
FP1	24.8	19.1	16.5	9.7	14	15.8	30	22.5	18.9	9.6	10.3	8.6	
F3	25.5	25.6	23.1	12.3	8.3	5.2	32.7	20.3	23.6	9.5	8.3	5.6	
C3	20.6	16	18.2	38.1	5.1	1.9	31.9	20.8	24.2	14.1	6.2	2.7	
P3	27.1	20.5	18.6	24.3	7.1	2.2	26.9	22.7	24.5	14.5	7.1	4.3	
O1	27.9	20.6	15.5	18.2	10.2	7.7	21.7	16.7	17.2	14.3	12	18.2	
FZ	24	29	25.9	12.7	6.3	2.1	27.9	25.9	25.7	11.6	6.3	2.6	
CZ	26.3	25.4	23	18.3	5.2	1.7	27.9	20.6	27	17.3	4.8	2.5	
PZ	27	20.8	18.9	26.6	5.2	1.4	27.5	24.2	22.4	17	5.6	3.3	
FP2	28.9	19.1	15.4	9.4	10.6	16.6	31.1	22.7	18.6	10.4	9.2	8	
F4	29.2	24.6	24.3	10.2	7.7	4	27.2	24.9	23.1	12.8	8.1	3.9	
C4	23.5	18	18.5	32.8	5.3	1.9	26.7	21.4	25.7	18	5.4	2.8	
P4	30.6	17.2	15.8	29.4	5.5	1.6	27.6	24.9	21.9	13.3	7.3	5	
O2	29.8	19.9	15.1	23.4	7.6	4.2	21.6	15.2	15.4	12.4	13.7	21.7	
F8	24	19.1	18.7	10.9	11.5	15.7	26.9	21.1	18	15.3	10.3	8.5	
T4	13.9	7.8	9.7	11.1	25.6	31.9	13.1	14.2	13.9	9	26.5	23.3	
T6	30.2	16.8	17.5	23.7	8.9	2.9	24.9	15.5	18.7	12.7	13.5	14.7	

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BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	33.5	22.4	23.4	12.1	5.4	3.3	39.4	18.9	27	8	3.9	2.7	
T3	23.1	22	15.7	20.7	10.5	8.1	25.5	17.8	17	11.6	14.6	13.4	
T5	18.5	18	17	39.3	4.5	2.8	23.4	19.4	22.5	15.2	10	9.5	
FP1	32.2	16.7	24.8	10.2	8.1	7.9	32.5	15.3	36.5	6.7	4.4	4.6	
F3	27.6	19.7	28.8	15.5	5.6	2.8	25	18.6	36.6	10.8	5.6	3.3	
C3	25.2	21.6	23.6	23.2	4.5	2	28.7	24.6	25	12.6	5.5	3.6	
P3	22.8	19.7	16.2	36.1	3.6	1.6	25	23	24.3	15.7	6.9	5.1	
O1	21.1	21.2	16.4	31.3	5.1	4.9	10.9	15.3	30.9	13.8	12.3	16.8	
FZ	30.8	19.6	28.4	14.7	4.3	2.1	27.7	18.5	34.6	12	4.5	2.7	
CZ	25.7	23.1	27.9	18.4	3.3	1.6	28.3	23.5	28.9	12	4.3	2.9	
PZ	24.6	22.1	23.1	25.5	3.4	1.4	25.7	23.1	25	17.4	5.2	3.6	
FP2	30.6	14.4	24.7	8.3	9.5	12.5	29.2	14.2	37.8	6.5	5.7	6.5	
F4	27.4	20.3	29	14	5.7	3.6	24.2	14.7	39.4	10.9	6.6	4.3	
C4	23.8	21	23.4	24.5	5.2	2.1	28.2	21.8	27.7	13	5.8	3.5	
P4	27.8	21.4	19.3	25.7	4.1	1.7	19	24.7	24.8	20.3	6.5	4.6	
O2	20.6	25.1	19.7	25.7	5	3.8	11	14.8	31.6	15	12.3	15.3	
F8	34.3	18.9	24.7	13.3	5.4	3.4	36.7	18.6	25.9	8.8	5.5	4.6	
T4	27.5	16.3	17.7	20.9	10.7	6.9	25.3	17.8	18.8	16	10.9	11.2	
T6	23.9	18.1	18.3	32.8	4.3	2.6	15.1	17.8	24.6	23	10.3	9.2	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	29.8	18.1	29.8	15.7	4.2	2.3	29.9	41.9	17.2	6.2	2.6	2.2	
T3	22.3	23.3	24.3	18	6.8	5.2	24.4	28.5	14.9	13.4	9.4	9.4	
T5	19.2	17.9	28.5	14.8	10	9.7	24.6	18.4	20.9	16	9.8	10.3	
FP1	26.6	15.9	43.1	8.6	3.1	2.8	30.7	35.7	23.5	6	2.2	1.9	
F3	21.7	23.1	33.9	14.2	4.8	2.4	30.1	30.3	23.3	9.4	4.4	2.5	
C3	19.7	24.9	28	18.4	5.1	3.9	27.6	27.6	23.3	15.1	3.7	2.7	
P3	21.4	22.3	28.9	16.2	6.2	5	31.8	22	21.4	14	6.1	4.7	
O1	16.7	13.1	16.8	14.5	17.3	21.6	20.8	17.9	18.8	12.3	13.7	16.4	
FZ	17.8	22.1	46.9	8.9	2.8	1.4	34.2	25.5	26.7	8.6	3.2	1.8	
CZ	30.2	22.6	24	16.4	3.9	2.9	34.3	24.4	22.1	13.4	3.6	2.3	
PZ	26	19.5	27.9	16.8	5.2	4.6	33.9	24.1	22.2	13.3	3.6	2.6	
FP2	25.1	16.4	43.8	7.2	3.9	3.8	38.4	25	24.8	6.2	2.9	2.7	
F4	17.5	22.8	39.1	13.2	4.5	2.9	34.3	30.2	20.3	8.2	4.1	2.9	
C4	24	20.2	23.9	23.5	4.5	3.9	30.6	30.9	19.4	13	3.7	2.4	
P4	23.7	22.6	25.5	15.7	6.7	5.8	31.7	24.2	20.1	15.4	4.7	3.9	
O2	14.1	13.8	16.4	15.2	17.4	23	21	21.8	19.1	12	12	14.1	
F8	16.1	21.8	44.4	10.4	4.6	2.7	48.6	22.9	18.8	5.1	2.4	2.2	
T4	16.4	15.6	21.1	32.7	8	6.3	30.6	21.2	18.4	16.7	6.9	6.3	
T6	15.8	14.9	19.9	15.9	16.7	16.8	26.6	21.6	16.1	19.7	8.6	7.5	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	35.6	21.4	28.7	8.6	3.4	2.3	36.9	21.5	29.7	6.2	3.6	2.1	
T3	26.4	17.5	15.6	12.3	14.5	13.6	22.3	19.4	22.7	16.6	9.7	9.3	
T5	24.3	14.1	24.4	27.8	5.7	3.7	23.3	16.1	27.7	11.7	9.8	11.4	
FP1	26.4	17.2	35.8	7.1	6.6	6.8	38.6	20.8	31.5	4.7	2.3	2	
F3	25.2	21	34.7	10.6	5	3.6	27.3	22.1	31.2	11.7	4.9	2.8	
C3	29.7	21.6	28.7	12.4	5.1	2.5	29.4	25.3	26.3	11	4.2	3.7	
P3	28	16.6	24.8	23.8	4.4	2.3	28.9	20.7	27.5	11.3	5.7	5.9	
O1	25.4	22.8	20.7	21.9	5.2	4	20.7	11	21.1	11.4	14.6	21.2	
FZ	30	21	30	12.5	4	2.5	23	18.5	43.7	9.4	3.4	2	
CZ	33.2	18.7	29.8	13.5	2.8	2	32.8	22.9	28.8	10.1	2.8	2.5	
PZ	30.3	18.8	25.3	20.6	3.5	1.6	27	21.6	29.6	13.2	4.5	4.1	
FP2	28.6	18.1	32.7	6.9	5.5	8.3	40.8	19.1	29.2	5	3.2	2.6	
F4	23.3	21.7	34.3	9.6	6.9	4.3	25.7	21.7	33.5	10.5	5.3	3.4	
C4	25.4	22.5	29.2	15.4	4.9	2.7	29.6	21.3	28.9	13.7	3.5	3	
P4	20.9	18.6	27.2	26.5	4.6	2.1	24.7	19.1	32.8	12.5	5.7	5.2	
O2	20.4	25.1	23.6	20.5	6.2	4.3	18	11	22.2	12.9	15.5	20.4	
F8	33.8	23.9	23.7	9.3	5.2	4	35.9	20.5	27.8	7.5	5.3	3	
T4	31.4	17.3	14.5	10.8	10.6	15.4	28.5	16.2	21.8	18.4	8.2	5.9	
T6	14.8	16.5	20.6	38.7	5	4.5	23.1	14.5	26.7	11.3	12.1	12.2	

24X

BASELINE							READING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	19.9	20.9	22	14.9	10.1	12.2	33.4	22.1	22.9	7.9	8	5.8	
T3	16.9	18.1	20.3	13.9	16	14.9	24	22.6	26.9	9.6	8.6	8.2	
T5	21	23.2	21.7	14.3	12.2	7.7	19.7	28	24	10.8	12	7.5	
FP1	22.2	20.1	18.5	10.2	11.2	17.7	25.7	22.5	26.7	10.5	9.1	5.5	
F3	19.9	25	29.7	11.6	8.6	5.1	17.8	25.6	32.8	12.5	7.8	3.5	
C3	21.7	24.7	28.5	14.4	7.6	3.1	19.4	27.7	32.3	11	6.6	3	
P3	22.7	21.7	24.2	19.4	8.7	3.4	22.4	23.6	29.7	13.1	7.8	3.3	
O1	17.2	21.5	21.1	15.1	13.6	11.4	13	19.7	23.4	12.4	14.7	16.9	
FZ	20.9	23.3	32.9	12.2	7.9	2.8	17.1	24.9	34.5	13.7	7.1	2.6	
CZ	21.2	24.2	30.5	14	7.4	2.7	19.3	25.9	32.7	13.1	6.4	2.6	
PZ	26.2	21.3	22.6	18.7	8.4	2.7	23	20.3	31.5	14.2	7.7	3.3	
FP2	23.9	20.8	20.9	11.7	10.9	11.7	22.9	21.5	29.5	12.1	8.6	5.4	
F4	18.7	22	25.6	13.5	12.5	7.6	17.9	20.1	33.3	14.8	9.7	4.2	
C4	21.5	23.2	25.5	17.1	9.1	3.5	23.1	22.3	32.1	13.5	6.2	2.9	
P4	24.5	18.9	24.7	16.9	11.6	3.4	22.2	20.8	33.1	12.5	7.6	3.8	
O2	18.7	19.8	20.7	13.3	14.2	13.3	8	13.6	15.7	14.6	17.2	31	
F8	26.9	17.4	21.3	12.9	11	10.5	32.5	22.5	24.3	9.3	6.5	5	
T4	15.9	17.9	24.6	12.3	14.1	15.3	22.9	19.5	19.2	9	13	16.5	
T6	23.2	18.9	24.3	15.9	12.7	4.9	20.9	22.6	28	11	11.6	5.8	
DRAWING							RAVENS						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	19.2	22.6	22.8	12.8	10.6	12	35.9	19.8	18.4	8.8	7.2	9.9	
T3	19.1	23.5	25.7	17	8.4	6.4	23.7	19.7	21.1	12.7	12.6	10.3	
T5	18.7	22.1	21.7	18.8	10.6	8.2	19.3	21.1	22.1	13.2	14.6	9.6	
FP1	26.3	27.9	22.2	9.8	7.5	6.3	40.2	20.8	18.7	9.1	5.7	5.5	
F3	15.8	29.8	27.4	12.5	10.2	4.3	29.9	21.4	25.1	12.7	6.9	4	
C3	18.7	30.5	27.3	11.8	8.5	3.1	22.3	22.4	28	14.5	9	3.7	
P3	18.8	29	24.3	15.1	9	3.7	26.1	22.3	27.6	11.8	8.4	3.8	
O1	17.2	26.1	23	14.6	10.7	8.4	18.3	23.2	19.6	11.9	11.7	15.3	
FZ	13.7	31.7	30.1	12.4	8.6	3.4	28.4	22.2	26.4	12.7	7.5	2.8	
CZ	14.1	32.6	27.8	14.7	8	2.9	23.1	25.4	28.2	12.3	7.9	3.1	
PZ	15.5	26.5	27.2	18.4	10.8	3.6	21.2	26	26.4	16	7.7	2.7	
FP2	25.5	26.8	22	11.6	7.2	6.8	41.2	19.9	18.2	10.2	6.3	4.1	
F4	12.4	30.1	28.6	13.9	9.2	5.8	29.9	20.8	23.9	11.8	8.3	5.4	
C4	16.7	31.1	24	16.3	8.6	3.3	24	25.2	26.1	13.8	7.5	3.4	
P4	19.2	24	27.1	13.6	10.8	5.3	23.4	26.2	24.9	13.8	8.1	3.7	
O2	8.8	14	13	14.4	17.8	32.1	14	16.4	14.2	10.4	18	27	
F8	22.4	22.2	20.1	14.8	9.7	10.8	39.1	22.4	15.9	9.8	7.5	5.4	
T4	15.3	25.3	20.1	13.7	13.4	12.3	25.1	23.6	15.6	8.6	15	12	
T6	21.8	20.3	23.3	15.1	10.9	8.6	26.3	24.3	17	12.3	12.2	7.9	
STORY							CODING						
LOCATION	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	DELTA 1	DELTA 2	THETA	ALPHA	BETA 1	BETA 2	
F7	25.3	25.5	21.9	11.5	8.7	7.1	24.7	21.5	22.1	15.3	8.9	7.5	
T3	19	22.1	20.8	13.2	13.6	11.2	18.3	25.4	26.7	15.3	8.3	6.1	
T5	17	24.1	24.6	13.1	13	8.2	20.4	27.3	25.1	12.4	8.9	6	
FP1	27.6	25.6	21.7	10.2	8.6	6.2	26.9	24	21.2	13.7	9.3	4.9	
F3	21.6	24.7	28.4	13.1	8.6	3.5	19.1	26.7	27.8	15.4	7.6	3.4	
C3	22.5	28.1	27.3	12.6	7	2.6	18.5	26.6	30	15	6.7	3.2	
P3	22.4	26.2	27.2	12.8	8.5	2.9	22.1	27.4	27.7	12.7	7	3.1	
O1	22.9	24.9	21.6	14	9.5	7.2	15.9	18.6	20.6	12.6	14.1	18.2	
FZ	21.5	24.6	28.4	14.5	8.4	2.6	17.8	26.6	28.9	16.1	7.8	2.8	
CZ	22.7	25.6	28.6	14.1	7.1	2	15.5	27	32.3	14.4	7.5	3.3	
PZ	24.6	22.6	26.6	16.1	8.1	1.9	24	25.4	26.6	13.2	7.3	3.6	
FP2	25.3	26.4	22.3	11.5	8.8	5.7	28	20.8	22.5	13.5	9.6	5.6	
F4	20.7	22.8	25.2	13.9	11.7	5.8	18.6	23.5	27	16.1	10.3	4.5	
C4	25.4	25	24.5	15	7.6	2.6	17.9	24.9	26.5	16.4	10.4	3.8	
P4	25.4	25.5	21.8	15.2	9.6	2.8	20.3	23.4	27.4	13.1	9.9	6.1	
O2	21.4	20.3	17.1	13.8	11.7	15.7	7.5	8.5	8.8	14.6	19.6	41.1	
F8	22.9	23.3	21	13.4	10.7	8.7	25.1	22.5	21.3	13.1	9.5	8.6	
T4	20	19	16.6	11.5	14.7	18.3	19.7	27.1	20.5	14.4	11.5	6.9	
T6	23.6	23.2	19.4	15.3	13.4	5.1	19.8	25.7	25	12.8	10	6.7	

VITA

Jeffery Neal Swartwood was born on September 7, 1965 in Huntsville, Alabama. He was raised in Orlando, Florida, and completed his undergraduate work at the University of Florida at Gainesville in 1987. He obtained at Master's degree in Psychology at the University of Tennessee at Chattanooga in 1990. He was married in 1991 to Michie O. Swartwood and has one child, Schuyler, born March 31, 1994.

Jeffery is presently preparing to begin a postdoctoral fellowship at the Kennedy Krieger Institute, Department of Pediatrics, Johns Hopkins University School of Medicine.