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Usability analysis within The DataONE network of collaborators.

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What is DataONE?
Cyberinfrastructure enterprise (tools, ideas, people)
Distributed Framework of Coordinating Nodes and Member Nodes

Member Nodes
- Diversity tolerant (less tightly coordinated)
- Freedom to try or build new tools, methods and leapfrog forward

Coordinating Nodes
- Tightly coordinated, stable service platform
- CI based on cases prioritized for functionality
- Support and adapt existing community software efforts

Provide support for the entire data life cycle - preparation of data sets, stewardship, tools to access and use the data
- Collection/preparation
- Deposition/acquisition/ingest
- Curation and metadata management
- Protection, including privacy
- Discovery, access, use and dissemination
- Interoperability
- Exploration, visualization and analysis

What is User-Experience Testing?
User-experience testing assesses the quality and ease of a user’s experience when interacting with a product or system

In a user-experience test the researcher observes users as they perform a variety of tasks.
The testing provides insight into problems the user encounters. Common measures include:
- Time on task
- Number of keystrokes or mouse clicks
- Error frequency
- Think-Aloud
- Pre and Post Questionnaires

User-Experience testing looks not only at their ability to navigate and find information, but how satisfied they were with the process.
- Did they find the product easy to use?
- Were they frustrated? Why?
- How confident were they using the product?
- How likely are they to use the product again?

What is Eye-Tracking?
Eye-Tracking measures where the user is looking (fixation points) and the movement of the eye (gaze path). Eye-tracking provides valuable information to evaluate the effectiveness and efficiency of a product or system.

Eye-Tracking measures:
- What attracts the users’ attention
- How long users focus on each area
- What areas of the page attract the most attention
- How users read/view the information

This helps you:
- Detect usability issues
- Design an optimal page layout
- Study how users interact with information
- Study users’ search strategies or decision-making processes

Benefits of user-experience testing:
- Study what users do (not just what they say they do)
- Understand user behaviors, needs, and motivations
- Create an efficient, useful, and accessible product
- Create a pleasing user interface
- Provide a good return on investment
- Compare different product designs

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For more information see www.DataONE.org, www.facebook.com/DataONEorg; follow @DataONEorg or contact info@DataONE.org

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