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UX Report: DataONE Search User Profile User- Experience Test Results

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DataONE Search User Profile User-Experience Test Results
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DataONE Usability and Assessment Working Group conducted a usability study of the DataONE Search User Profile. This report discusses the findings.

METHODOLOGY

Testing was conducted December 7-10th 2015. Testing was completed through remote usability testing and through an online survey. Participants were recruited through the Member Node Forum and the DataONE Scientist Panel. An e-mail invitation was sent to both groups on December 2nd asking them to participate in a remote usability test through Webex. Only three users responded. In order to garner more user feedback, a Qualtrics online survey was created and distributed through the Member Node Forum e-mail list and to the scientist panel. Four users completed the online survey.

In the remote usability test, participants were shown five mock-ups of the DataONE Search user profile (member node profile, group profile, individual profile, blank/empty profile, and identification code page). Participants were asked for insights into the profile's design, layout, and content, including anything they did not understand or anything they felt was missing. The images used during testing are included at the end of the report. The usability test took an average of 20 minutes.

In the online survey participants were shown the five user profile pages and asked to provide feedback, including first impressions, if there was anything they did not understand, or anything they thought was missing.

TEST RESULTS

Member Node User Profile

Overall, participants thought the layout was simple, easy to understand, and intuitive. They liked that there was a short summary of Dryad on the page, since not all users knew much (or anything) about Dryad. They would also like to be able to find additional information about the Member Node. The user profile could be linked to the Member Node Dashboard.

Participants pointed out that there is no heading or description that describes the content of the page. It is not necessarily obvious that the user is looking at the Dryad data holdings. This issue may be cleared up by how the user accesses the page, but it may be helpful to include a heading for the user profile pages.

Another issue that users pointed out was the vertical layout of the page. It is not obvious that there is any information below the fold. The only item that is shown above the fold is the dataset list. It would be helpful if there was some indication of the content below the fold. Again, this may be more obvious depending on how the user accesses the page and if there is a heading for user profiles.

Group User Profile

As with the Member Node profile, participants liked the clean layout. They thought the Download and Upload statistics were helpful. They wondered when and how often the statistics were updated. They would like to see a date so they could know currency.

It was not always clear to users what they were seeing in the group page. They were confused about if group datasets could only come from one member node or could there be multiple member node contributors. It was also unclear how the group related to the datasets since the author/owner of the dataset is not a group member. If only members of the group can see the page, there should not be any issues, but if the group profile is searchable it may be nice to include a short description/summary of the group (like with Member Nodes) to help clarify the content.

Individual User Profile

Participants liked the layout. They thought adding a picture or avatar to the individual profile could be helpful, mimicking other social media/online pages.

They liked the idea of being able to share e-mail address or contact information (including associations); however, they pointed out that many scientists change jobs frequently and the contact information could be outdated. Contact information could be tied to Orcid or other sign-in information.

All participants thought the user profile should be public. They thought a public profile was a part of sharing data and having a profile could help improve visibility while helping users determine the quality of a data package. If the data owner/lead author is not the uploader, there could be a mechanism in place that sends a notification to the author when a data set is submitted.

Participants liked the file format and time period statistics. They liked the idea of being able to click on one of those charts to filter the author's data sets.

Empty User Profile

Participants thought the grayed out images was unnecessary. They would keep the short description ("Lauren Walker hasn't uploaded anything yet.") and remove everything else.

Identification Code Page

Participants thought the page was easy to understand. They would like to see documentation about how to use the code/token. If there were other methods beside R and MatLab to use the code/token, they would like to be more obvious on the page.

While the term "identification code" was understandable, participants liked the term "token". Six of the seven participants preferred "authentication token."

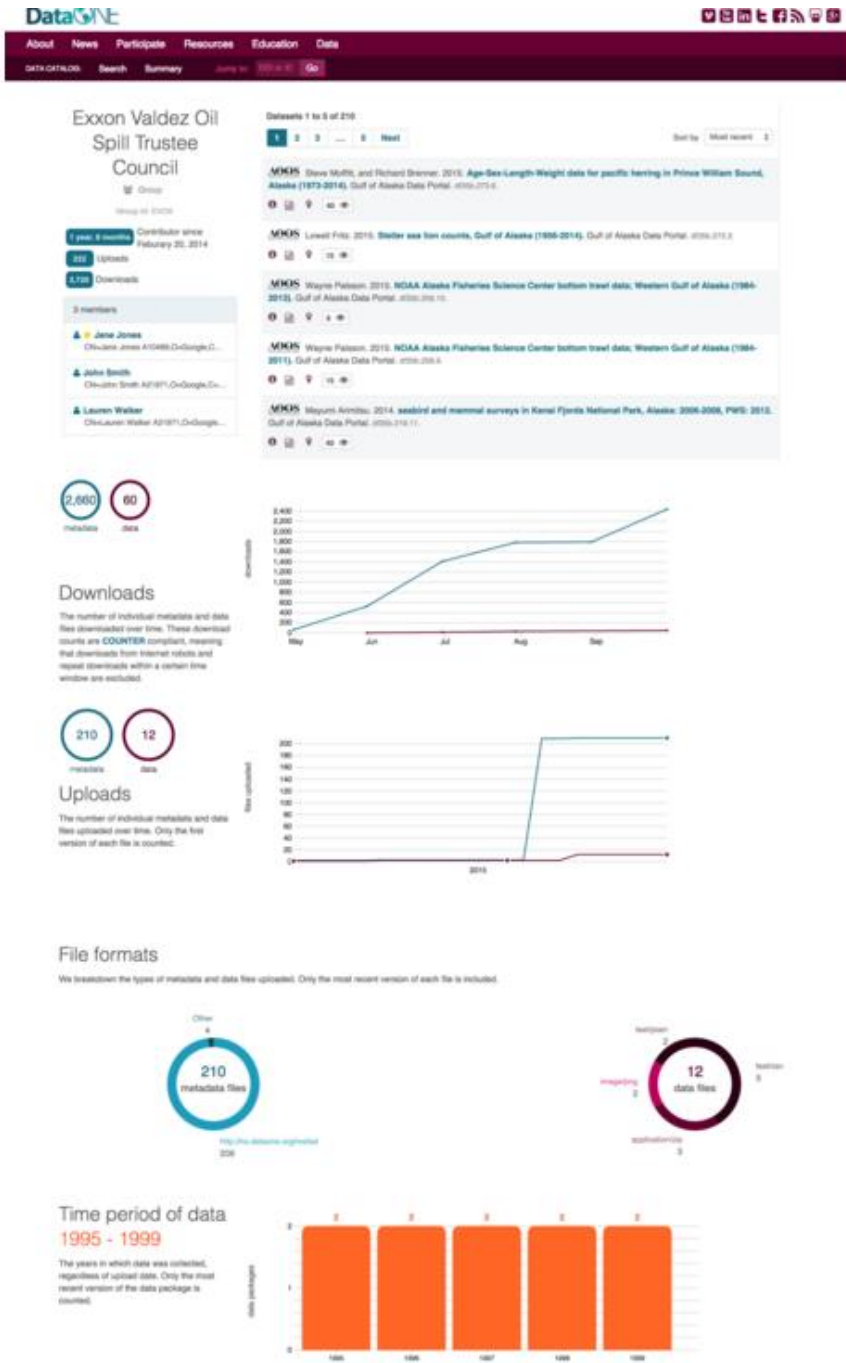
User Profile Images

Member Node User Profile

The screenshot shows the Dryad Digital Repository interface. At the top, there is a navigation bar with links for 'About', 'News', 'Participate', 'Resources', 'Education', and 'Data'. Below this is a search bar and a 'Sign In' button. The main content area features a list of datasets, each with a title, authors, and a brief description. For example, the first dataset is 'Data from: Rapid divergence of nesting depth and flipping appendages among foraging dung beetle populations and species' by Moriguchi, Arita, Mizuki, Arita, and Pizzi, dated 2015. To the left of the dataset list, there are statistics: '1 year 3 months' since February 02, 2014, '16,262 Uploads', and '48,108 Downloads'. Below the dataset list, there are two line graphs. The first graph shows 'Downloads' from May to October, with a peak in October. The second graph shows 'Uploads' from 2013 to 2015, showing a steady increase. Further down, there are two circular gauges: '47,776 metadata' and '21,333 data'. Below these are two more circular gauges: '3,159 metadata' and '7,084 data'. At the bottom, there is a bar chart titled 'Time period of data' showing the number of data packages uploaded per year from 1970 to 2013, with a significant spike in 2013.

Dryad is a collaboration among many partner organizations, and is funded by the US National Science Foundation (NSF) under a Cooperative Agreement, 1121846 (2011), University of New Mexico, Albuquerque, NM 87131. Acknowledgments: This website is based upon work supported by the National Science Foundation under Grant Numbers 0808944 and 1460338 (DryadBot). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Group User Profile



DataONE is a collaboration among many partner organizations, and is funded by the US National Science Foundation (NSF) under a Cooperative Agreement (1212348-01). University of New Mexico, Albuquerque, 87131-0001. Acknowledgment: This material is based upon work supported by the National Science Foundation under Grant Numbers 0808044 and 1430308 (DataONE). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Individual User Profile

DataONE About News Participate Resources Education Data

DATA CATALOG Search Summary **John Smith**

My Data Settings

John Smith

Member since July 13, 2013

7 years, 4 months Contributor since July 13, 2013

423 Metadata 167 Data

8 Metadata 34 Data

Member of 2 groups: AODS, Gulf of Alaska

Downloads

The number of individual metadata and data files downloaded over time. These download counts are COUNTER compliant, meaning that downloads from Internet robots and repeat downloads within a certain time window are excluded.

Month	Metadata Downloads	Data Downloads
May	20	10
Jun	40	20
Jul	80	40
Aug	150	60
Sep	250	100
Oct	400	150

Uploads

The number of individual metadata and data files uploaded over time. Only the first version of each file is counted.

Month	Metadata Uploads	Data Uploads
May	5	1
Jun	5	1
Jul	5	1
Aug	5	1
Sep	5	1
Oct	5	1
Nov	5	1

File formats

We breakdown the types of metadata and data files uploaded. Only the most recent version of each file is included.

File Type	Format	Count
Metadata	CSV	8
Data	NetCDF	13
Data	Hypack	8
Data	NetCDF2	13

Time period of data

The years in which data was collected, regardless of upload date. Only the most recent version of the data package is counted.

Time Period	Number of Packages
1970-1979	2
1971-1980	2
1980-1989	8
1981-1990	2
1990-1999	7
2000-2009	2

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Empty User Profile

The screenshot shows the DataONE user profile page for Lauren Walker. The page is mostly empty, indicating no data has been uploaded. The navigation bar at the top includes 'About', 'News', 'Participate', 'Resources', 'Education', and 'Data'. The user's name 'Lauren Walker' is displayed, along with a message: 'Lauren Walker hasn't uploaded anything yet. Upload data now. Find ways to upload data to DataONE.' Below this, there are sections for 'Uploads', 'Downloads', and 'File formats', each showing a count of 0. The 'Time period of data' section is also present but empty. At the bottom, there is a footer with legal information.

Lauren Walker
Lauren Walker hasn't uploaded anything yet. Upload data now. Find ways to upload data to DataONE.

Uploads
0 uploads
No data has been uploaded any of the data.

Downloads
0 downloads
The number of individual metadata and data files downloaded over time.

Uploads
0 uploads
The number of individual metadata and data files uploaded over time. Only the first version of each file is counted.

File formats
0 file formats
The breakdown the types of metadata and data files uploaded. Only the most recent version of each file is included.

Time period of data
0 time period
The years in which data was collected, regardless of dataset size. Only the most recent version of the data package is counted.

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Identification Code

My Account

My identification code

Use your DataONE identification code to upload data

Your identification code is a unique string of characters that identifies a person submitting, updating, or accessing data. Copy/paste your identification code into an application that supports DataONE to manage your account.

Please be careful to safeguard this code. Anyone with access to it can access content in DataONE as you. Be careful to not add this code to any published scripts or documents. This code will expire after a certain time period after which you will need to get a new one here.


Copy your identification code: ✕

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpzZWZhdWV1IiwiaXNjaXNzdWVhcnQyOilyMDE1LTJlYyZlYDhVdA9QjQ3QjA2LjA5NiIsImNpdwMiOiNzZyZjZC6iImNOPLXhdXJibXlBXYWxzZXIgdTEwNDgSLE88R29vZzZlEM9VMsREM9Y2I2b2dvb291vcm0iLCJmcmFzIjoiRmRlPwZyEuTudR0hmVSPHGhPwJuQlPzcyPvg5Xpx1iw0Hxz7EJM  
Rw0MLG2AOEWTUC5ivYxUjKVPUR77WUoNz3eZuvtUEd7CV3WkVfmkBqqWSNhmAFirRuCmZmio_gcZY2Y3E9cQZWhz007a-  
D4FR8xBudL8dWdyngFEFcbBCZdQhgERZIRL_JUGUVce89nG6O0suIKKDoXdnmQD2OpTnnSXXHArwk_HszONT5m6tkqBAI-QSY5os6rcWB7KAHJ78y-mxxv-A8aPhSdELDNAfmcl3Cw4-R6zfW-  
EsvAw8UOk-452gZ77kIH3DxGZDEfk1O8A5AFg9Uyz3Sen4rAe0P7DvtipuVdwm4n5HTiga-
```


Applications that support DataONE identification codes

To upload data in the DataONE network: choose a Member Node to host your data and an app that supports DataONE.

[See the list of DataONE Member Nodes >](#)



DataONE R
The DataONE client for R has plans to use DataONE tokens in its 2.0 release. [Learn more about DataONE R >](#)



Matlab DataONE Toolbox Coming soon
A Matlab Toolbox that provides functions to interact with data repositories that implement the DataONE service API. The toolbox also includes client-side functions for managing provenance (the history) of derived data products. [Learn more >](#)

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Acknowledgement: This material is based upon work supported by the National Science Foundation under Grant Numbers 0830944 and 1430506 Disclaimer: Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.