

Evaluation of LinDA and comparison with other tools for visualization of Linked Data datasets

Testing Strategy

Mentor:

Dr. Fabrizio Orlandi

Rose-Mary Owusuua Mensah

Nishananth Baskaran

Ugochukwu Chimbo Ejikeme

Nikhil Patra

Evaluation of LinDA

- Six main forms of tests to be conducted
- Two groups of evaluators
 - Lab team mates
 - Test participants
- Devices and materials needed
 - Virtual machines, PC, timers, recorders
 - Other visualization tools, datasets
- Reports to be generated after each test



LinDA : Installability Test

- **How easy is it to install LinDA?**
- To be conducted by lab members
- **Requirements:** Stable version of LinDA, virtual machines, personal computers
- **Outcome:** Detailed Installability Report



LinDA : Usability Test

- Real users performing tasks on LinDA
- A form of functional testing
- **Requirements:**
 - Setting up the required environment
 - Providing datasets
 - Providing test cases
 - Providing questionnaires
 - Tools to monitor user's actions (if any)
- **Outcome:** Usability Test Report



LinDA : Efficiency Test

- Monitoring the **average time** and **effort**
 - Users require to perform actions such loading datasets, selecting visualization types, etc.
 - needed by LinDA to visualize datasets
- **Requirements:** availability of timers and recorders, datasets
- **Outcome:** Efficiency Test Report



LinDA : Scalability and Effectivity Test

- Scalability: Ability to handle different **sizes** of **datasets**
- Effectivity: Ability to analyze data **correctly** and produce **right** visualizations
- **Requirements**: Different types and sizes of datasets
- **Outcome**: Scalability and Effectivity Test Reports



LinDA : Comparison with other tools

- **Install** other selected **visualization tools**
 - **Use** and **compare** the tools with LinDA.
 - Metrics to be considered include Installability, Efficiency, Effectiveness, Scalability and Usability
- **Requirements:** Availability of selected visualization tools
- **Outcome:** Comparison Test Report



Questions and Answers





**THANKS
FOR
LISTENING**

Image Credits

- Other tools: <http://freesoftware.trafficcenter.com/>
- Scalability: <http://bframe.com/why-bframe/images/scalability.jpg>
- Efficiency:
<https://thedesignbuildblog.wordpress.com/2010/08/17/decreasecostandincreaseefficiency/>
- Installability: www.apajh69.fr
- Usability: www.digitalwoman.com
- Comparison: delcaweb.free.fr
- LinDA icon: <http://linda-project.eu/linda-vision/>
- Computer users: listverse.com