

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

Testing Strategy

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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

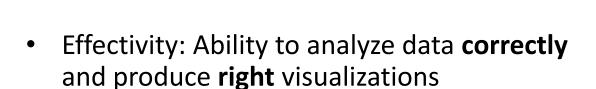
- Monitoring the average time and effort
 - Users require to perform actions such loading datasets, selecting visualization types, etc.
 - needed by LinDA to visualize datasets
- Requirements: availability of timers and recorders, datasets





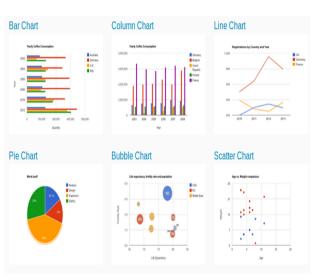
LinDA: Scalability and Effectivity Test

Scalability: Ability to handle different sizes of datasets



- 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





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/decreaseco standincreasefficiency/
- Installability: www.apajh69.fr
- Usability: <u>www.digitalwoman.com</u>
- Comparison: <u>delcaweb.free.fr</u>
- LinDA icon: http://linda-project.eu/linda-vision/
- Computer users: <u>listverse.com</u>