

Mobile Visualisation Techniques for Large Datasets

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Introduction

- Project based on a bigger project – MobiSAM (Mobile Social Accountability and Monitoring in South Africa) – dealing with local government
- ***Visualisations*** are useful in every day life, and becoming more so in the mobile platform
- Techniques for developing visualisations on the mobile platform are not as common and readily available as those in the desktop platform

Objective

- It is necessary to ***develop visualisation techniques*** that are suited to the mobile phones ***for large datasets***
- Several issues need attention during the design process of mobile visualisations
 - due to the small screens (of varying and non-standard resolutions - 100*80 on mobile phones to 240*320 on PDAs)
 - Interactions that can be supported by mobile devices (hardware, computation)
- Mobility complicates further

Approach (1)

- Investigate various visualisation techniques that exist
 - Compare the pros and cons of each
 - Suitability of data to be applied on, and information to be derived from data
 - Explore the libraries that are available for mobile platforms

Approach (2)

- Design, prototype, and develop visualisation
- Evaluation of interface through user study
- Analysis of results
- Write up findings

Expected results

- Visualisations geared towards smartphones, and suitable for displays of large datasets.
- Evaluation of visualisations and suitability for mobile platform

Questions

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