Diploma Thesis: Visualization of Calendar Data

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  - Heightfield Visualization of Calendar Data
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  - Advanced Statistic Views

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### Motivation

- Calendars to organize and visualize
- eCalendars

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<th>„available“</th>
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Main Features

- Heightfield Visualization of Calendar Data
  - workloads, color, details, dependencies

- Interaction on the Calendar Heightfield
  - highlighting, importance visualization, fuzzy scheduling

- Advanced Statistic Views
  - semantic pattern and trend views
Heightfield Visualization of Calendar Data

- workloads as height values
- color to distinguish categories
- highlighting
- detail information
- **fuzzy tasks**
  - start time
  - end time
  - both

- **additional parameters**
  - estimated effort
  - cluster size
Interaction on the Calendar Heightfield

- fuzzy scheduling
- distribute fuzzy tasks on-demand
Interaction on the Calendar Heightfield

- dependencies
- importance visualization
Advanced Statistic Trend View

- bar chart
- semantic views
  - smoothly fade-in
- descriptive statistics
  - arithmetic mean
  - standard deviation
Advanced Statistic Trend View

- for each category

- descriptive statistics
  - arithmetic mean
  - range
Advanced Statistic Pattern View

- quadrangles
  - size
  - color

- size = overall workload

- color blending = categorical influences
Summary

- Interaction and visualization techniques to explore and schedule calendar data
  - focus on workload distribution
  - showing dependencies
  - scheduling of fuzzy tasks
  - find patterns and/or trends

- Exchange calendar data with common calendar applications.

- Video
Thank you for your attention.