



Workshop

Know Thyself: Monitoring and Reflecting
on Facets of One's Life

Personal Experience Trace: Orienting Oneself in One's Activities and Experiences

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**Who knows details about you?
What do others know about you?**

Who knows details about you?

What do others know about you?

- Payment
- Energy
- Phone
- Internet
- Shopping
- Travel
- State
- Law enforcement
- ...

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Imagine someone has access to all of it and does not use it!

- Payment
- Energy
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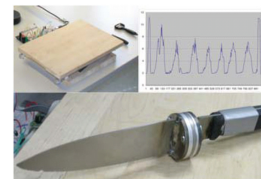
You!

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Technologies for creating experience traces companion computing



Within a few years we will use many technologies that allow effective and continuous ***self-perspective logging*** including activities at work, entertainment, travel, eating, and communication

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The obvious questions

- ***What did I do?***
What happened?
Retrospective perspective
- ***What am I currently doing?***
What is currently happening?
Current perspective
- ***What have I planned for the future?***
(What will happen?)
What did I anticipate happening in the future?
Prospective perspective

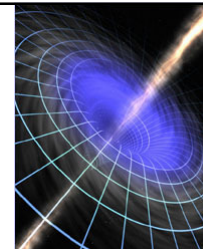
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Mental Time Travel

- Remembering past events
- Imagining future events



*“...knowledge about personally
experienced events and their
temporal relations in subjective time and ...
(affords) to mentally travel back in time...”*

(Tulving, 1985)

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How far are we? What do we do?

- Efficiently collecting personal experience traces from individual users
- Acquiring events related to explicit and implicit human computer interaction on “computers” (e.g. desktop, netbook, phone)
- Including additional time stamped media (e.g. photos) and sensor information (e.g. GPS)
- Means for annotation by the user
- Events belong together (e.g. based on time or location) and form a trace

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Experience-trace infrastructure

- Frameworks that support acquiring, storing, retrieving, providing and processing events
- Implementations
 - ContextDrive
 - research prototype, developed in c#
 - running under Windows
 - Zeitgeist
 - for deployment under Linux
 - open source implemented in Python
 - candidate for next GNOME release

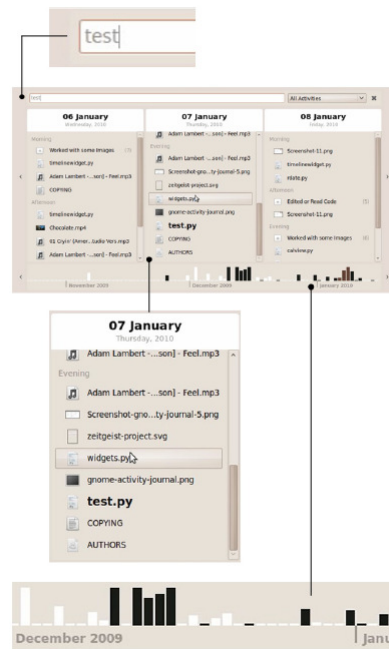
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Implementation (GNOME) Activity Journal

- searching and retrieving in context
- one result event is highlighted
- further results are indicated via the black vertical
- bars is an interactive calendar widget
- heights of the bars represent different amounts of a user's acting/experiencing.

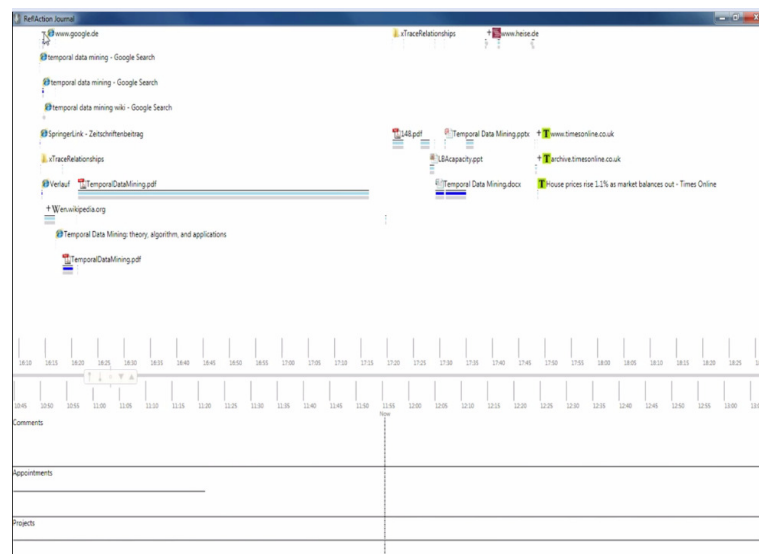


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Screen Video: ReflAction Journal



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Outlook and future challenges

- Exploiting (and controlling the exploitation) of personal experience traces
- Creating “useful” information (e.g. statistics, reflections) for an individual user, e.g. a personal dashboard
- Looking at shared experiences
- Assessing the power and risks of sharing experiences traces
- Rethinking the conceptual model of files on a computer, their storage and access model, and users perception of it

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More...

- <http://vimeo.com/10678237?hd=1>
- <http://reflaction.info/>
- <https://launchpad.net/gnome-activity-journal>
- <http://zeitgeist-project.com/>
- <https://launchpad.net/zeitgeist-project>
- <http://seilo.geekyogre.com/>
- <http://albrecht-schmidt.blogspot.com/>

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