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URL: <https://dialoguemaps.informatik.uni-hamburg.de/dev>

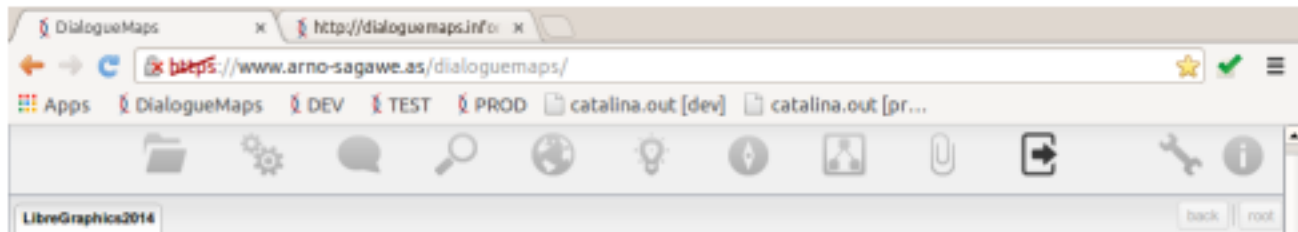
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DialogueMaps: Creating Interactive Visualisations in learning and meeting contexts

In many learning or meeting contexts, participants are involved in interactive discourses to bring together their individual knowledge. The results of this discourses are often documented as text-based meeting minutes. Sometimes the results are documented as integrated visualizations. For this purpose only analog methods or proprietary software exist. This is the reason why we are developing an Open Source software. The Software DialogueMaps, that we want to present, supports the communication process within a group to get a better understanding of complex circumstances or issues by creating visualizations. DialogueMaps is based on several theoretical concepts. As an integrating medium DialogueMaps helps supporting the creation of Interactive Visualizations (aka hyper visualization) in group discussion. For a first and better understanding, DialogueMaps is partly identical to prezi. But it's more!

In our presentation we describe our vision of a new emerging media called interactive visualization. Interactive Visualizations according to our understanding are inspired by the Mikropolis Modell from Arno Rolf et al. (a framework of theories, methods, and models of several disciplines in order to understand the interactions that occur between development and design of information technology on the one hand and changes in organizations and in society on the other side). More preparatory works or theoretical underpinnings are Otto Neuraths picture language ISOTYPE (and his vision of a picture based encyclopedia), David Sibbets methods for graphic facilitation (to develop a better understanding about complex circumstances or issues in group situations), and Vanaver Bushs idea of a memory extender (called Memex, which allows to navigate in complex multimedia data material along predefined associative trails; described in his article “As we may think” [9]) . For more details, please read our scientific publications.

In 2011 at the University of Hamburg we initiate a new Open Source project called DialogueMaps (Fachbereich Informatik). DialogueMaps is a web-based tool to edit, archive and present Interactive Visualizations in a collaborative setting (e. g. in seminars with group working or for presentations).



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Welcome



Rüdiger Heins



Arno Sagawe



Janis Bullert




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Welcome



Rüdiger Heins

Arno Sagawe



Janis Bullert

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Vision



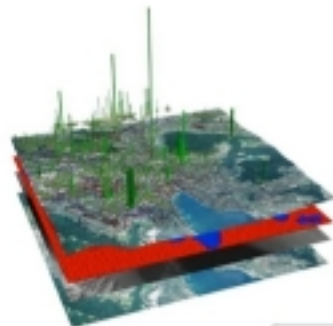
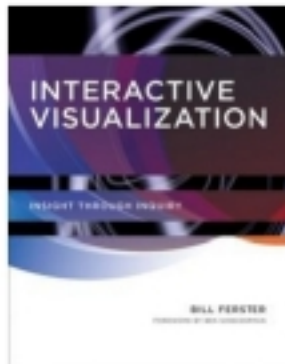
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Theory



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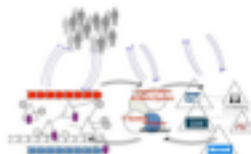
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Arno Kell

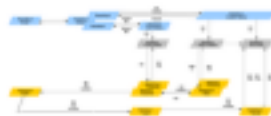


Mikropolis Modell



Ingrid Schirmer

EAM / UAM



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Diagram illustrating the relationship between human organization, IT systems, and external vendors.

The diagram shows a central core consisting of two overlapping circles: **Organisation- & Work-System** (top) and **IT-System Prozess-Architektur** (bottom).

Surrounding this core are several external entities and processes:

- A group of human icons at the top left, connected to the core by blue arrows.
- A red chevron bar below the human icons, connected to the core by blue arrows.
- A network of nodes and triangles below the red bar, connected to the core by blue arrows.
- A stack of triangles representing vendors: **SAP**, **IBM**, and **Microsoft**.
- A triangle representing **Uni Hamburg**.
- A triangle representing **MIT**.
- A blue chevron bar at the bottom, connected to the core by blue arrows.

Blue arrows indicate bidirectional communication and interaction between the central systems and the external entities.

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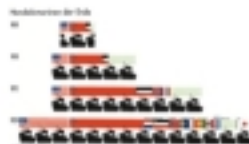
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Otto Neurath



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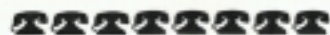
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Motor Cars, Telephones, Radio Sets 1937 per 50 population



United States 




Great Britain 



France 



Germany 



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David Sibbet



WICKED PROBLEMS

MILICENT BROWN ELI

EDUCATION LEARNING INITIATIVE

Deliberately un-deliberate
 a meditation on methods

unlike others

1. EXERCISE

Draw a sunset
 so SCC.

Alex Costelamary IDEO
 John Carse "Creativity"

"Not a fallback
 when out of operating"

why all SAME?
 In constraint - we do what
 we know.

OUT OF BOX
 requires
 OUT OF BOX
 ENVIRONMENTS

EFFICIENCY → IN BOX ideas

WICKED PROBLEMS

- Need something really new
- Complex & ambiguous
- Each solution new problem
- Requires disruption
- Can't write a check
- Definition itself is wicked problem

CLOSED MODE

- Time bound
- Focused

OPEN MODE

- Relaxed
- Cautious

DIVERGE CONVERGE
 DESIGN THINKING

2. IDEO
 EVOLUTION
 NEW METHODS SERVICES

Invest to act
 AGILITY in CORE
 MACROS
 MICS

MOOD
 CORE ME

Part of ext
 Curriculum
 Disruption
 helps LUIS

CONCLUSION

for WICKED PE

- * Need CREATIV THINKING "fire & fragile."
- * LEADERSHIP is key to ENCOURAGING CREATIV
- * CREATIV THINKING → which in Presentation

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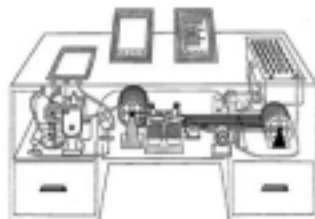
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Vannevar Bush



AS WE MAY THINK
A NEW KIND OF MIND-EXPANDING MACHINERY WILL BRING TO THE
FRONTIERS OF KNOWLEDGE AND RESEARCH THE BEST OF BOTH WORLDS
— THE HUMAN AND THE MECHANICAL.

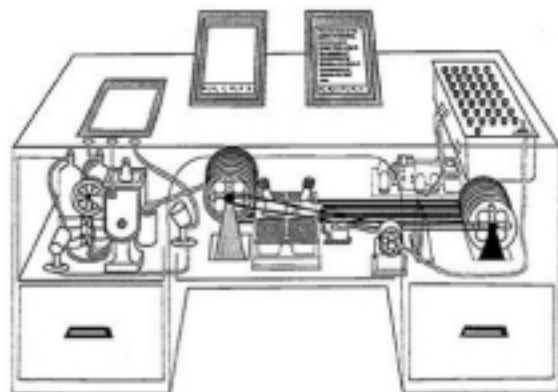


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Other software solutions



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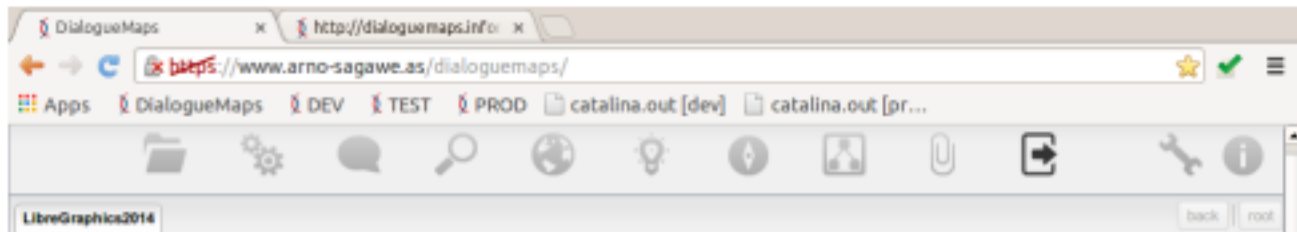
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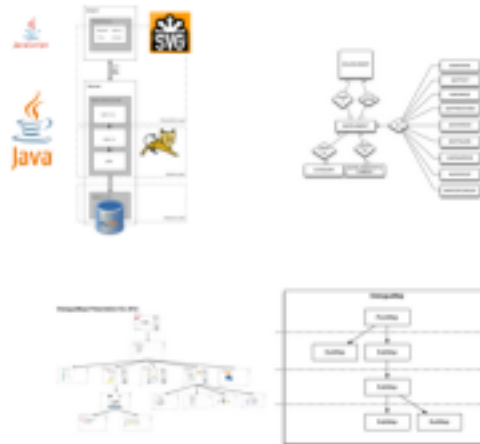
Baubles
BY MAGLYN

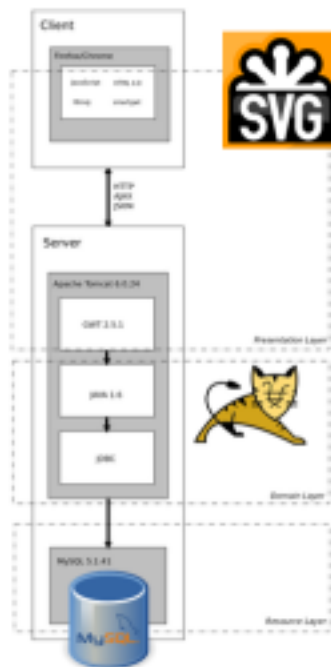
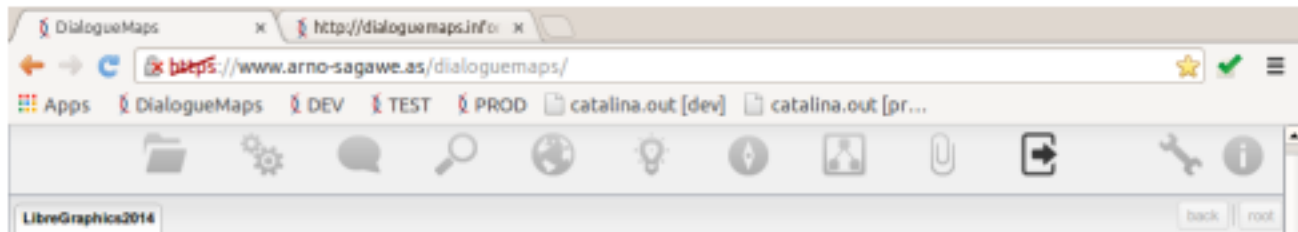
Prezi

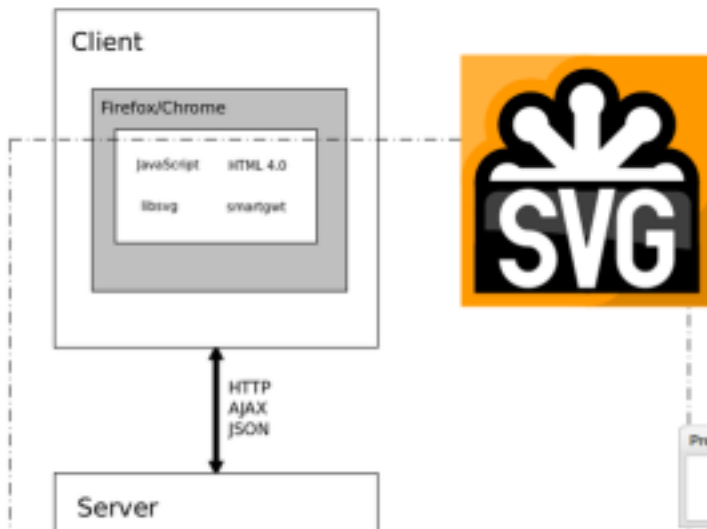
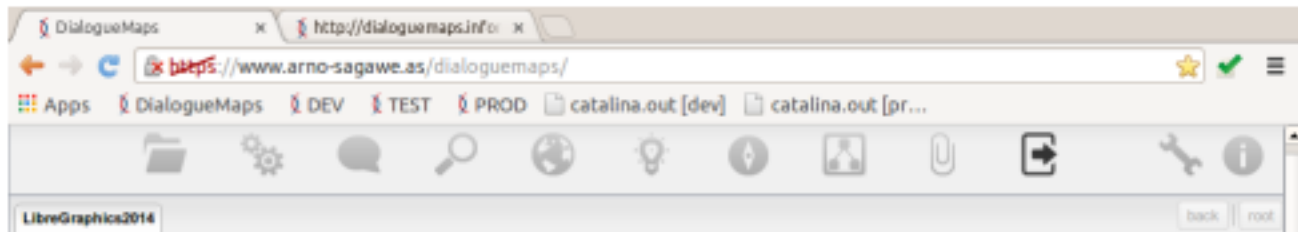
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Architecture







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The diagram illustrates the architecture of DialogueMaps, showing the flow of data and the layers involved. It is presented within a browser window.

- Server:** The main container for the application components.
- Apache Tomcat 6.0.24:** The web container running on the server.
- Presentation Layer:** Contains **GWT 2.5.1** (Google Web Toolkit).
- Domain Layer:** Contains **Java 1.6** and **JDBC**.

Data flow is indicated by arrows: **JSON** is received from the client into the **Server**. Within the **Server**, data flows from the **Presentation Layer** down to the **Domain Layer**. A **Java** logo is positioned to the left of the diagram, and a **Tomcat** logo is to the right. A small **Presentation** window in the bottom right corner shows **4 of 11**.

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The diagram illustrates the interaction between a Java application and a MySQL database. It is divided into two layers:

- Domain Layer:** Contains a box with "JAVA 1.6" and "JDBC". An arrow points from "JAVA 1.6" to "JDBC". To the right of this box is a cartoon tiger.
- Resource Layer:** Contains a box with "MySQL 5.1.41" and a MySQL database icon. An arrow points from the "JDBC" box in the Domain Layer to the "MySQL 5.1.41" box in the Resource Layer.

Java™

Presentation x

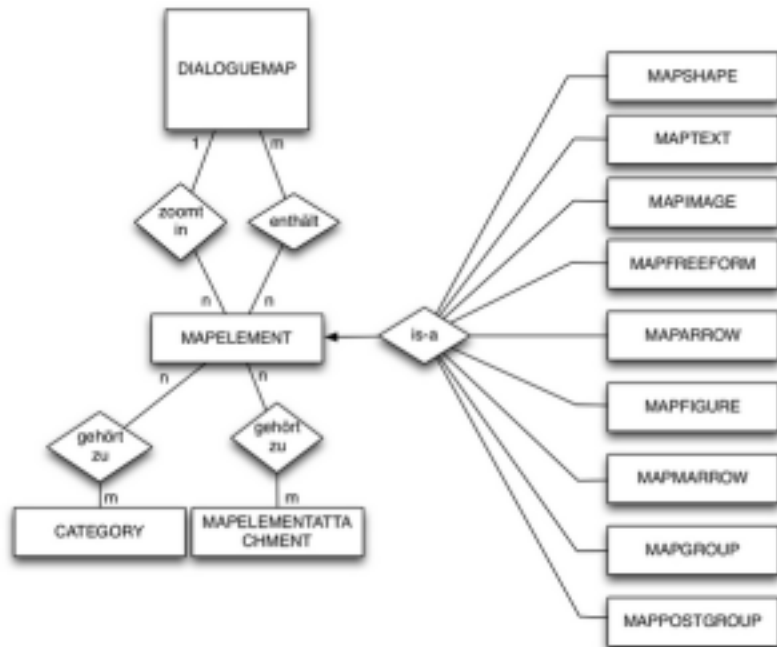
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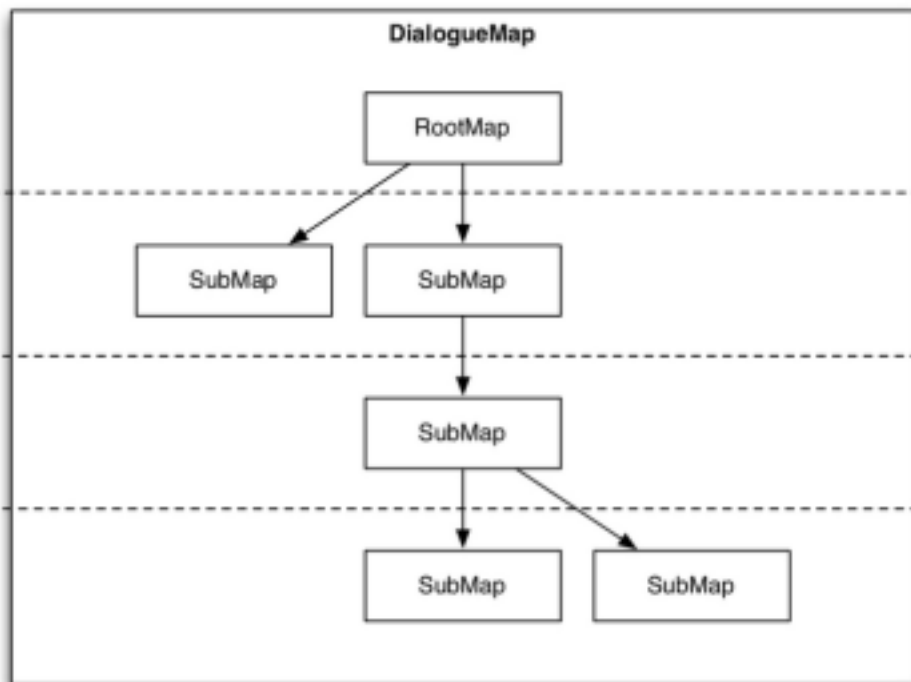


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DialogueMaps Präsentation ICL 2012



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Agenda

- Introduction
- In education
- Workshop
- In progress
- Conclusion

In education

Workshop

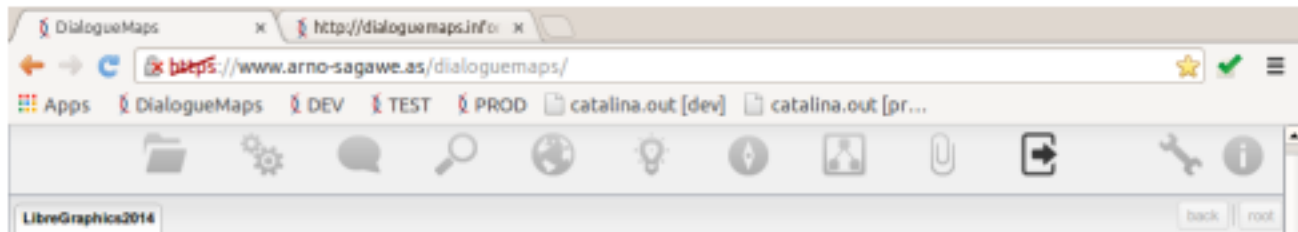
In progress

Introduction

Workshop

Conclusion

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The Project



sourceforge



Presentation

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