

InfoVis-Tools

- 1) LifeLines
- 2) GRIDL

LifeLines



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LifeLines – Hauptzweck



Speziell für Projekte im Gesundheits-Sektor

Visualisierung von

- Computerized mechanical records
- Patientendaten

Lösung von

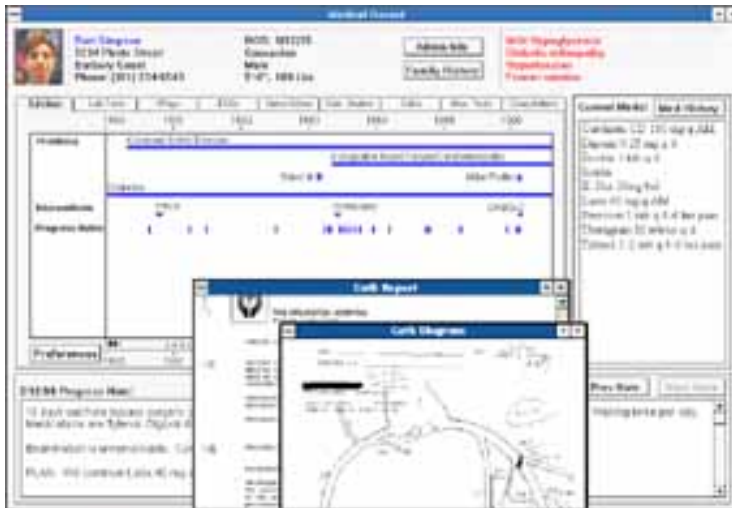
- Infrastrukturproblemen
- Problemen der „privacy“

LifeLines – Optionen

LifeLines can:

- 1) reduce the chances of missing information
- 2) facilitate the spotting of anomalies and trends
- 3) streamline the access to details (as LifeLines act as large menus) and
- 4) remain simple and tailorable to various applications

LifeLines - Datentypen/arten



<ftp://ftp.cs.umd.edu/pub/hcil/Screen-dumps/DJJ/amia-lif.gif>

- Patientendaten
- Medizinische Befunde
- Untersuchungstyp und -Datum
- Spitalsaufenthalte
- Medikamente
- Tests
- Behandlungs-Fortschritt
- Usw.

LifeLines - Interaktionen

- Skalierung
- Zoom in und out
- History: Abläufe im Zeitvergleich betrachten und vergleichen
- Filtern von Information
- Overview + Multiple Views
- Line color and thickness illustrates relationships or significance
- Detail on demand
Rescaling tools and filters allow users to focus on part of the information, revealing more details

Lifelines – Task

- Welche Medikamente führten zu welchen Symptomen?
- Welche Untersuchungen wurden wann durchgeführt?

<http://www.cs.umd.edu/hcil/lifelines/latestdemo/kaiser.html>

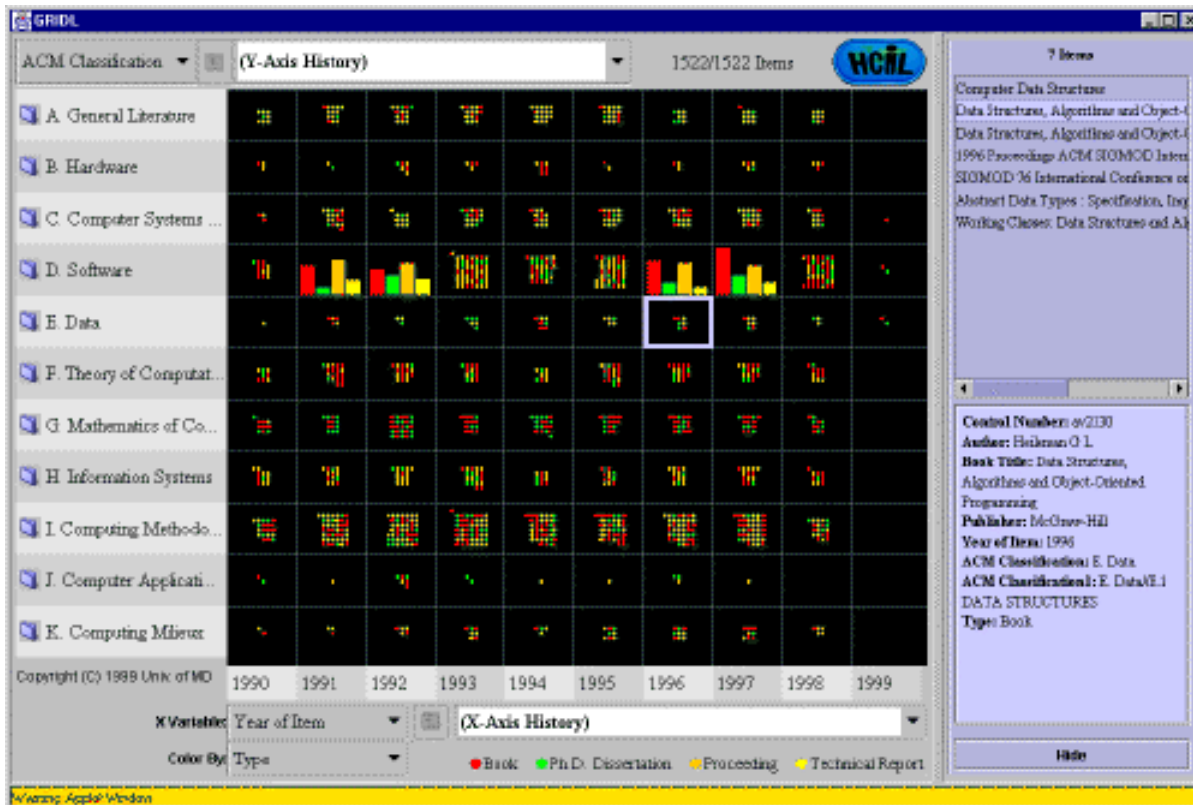
Lifelines – Vorteile/Stärken

- Intuitivität
- Selbsterklärend
- Daten auf einen Blick
- Multiple Views

Lifelines – Nachteile/Schwächen

- Zeitpunkt nicht exakt bestimmbar
- frau muss sehr genau wissen wonach sie sucht
- Extrahierung könnte verbessert werden
- Persönlicher Eindruck: Nicht sehr leistungsstark

GRIDL <http://www.cs.umd.edu/hcil/west-legal/gridl/>



- Graphical Interface for Digital Libraries

GRIDL - Hauptzweck

- **Ziel:** Visualisierung von Digital library search results
 - Viewing several thousand search results at once on a two-dimensional display with continuous variable
- ↓
- **GRIDL:** a simplified two-dimensional display that uses categorical and hierarchical axes
 - Users see the entire result set and can then click on labels to move down a level in the hierarchy.
 - **Specific goal** of this project is to help teachers develop more outcome-oriented lessons

GRIDL - Datenarten

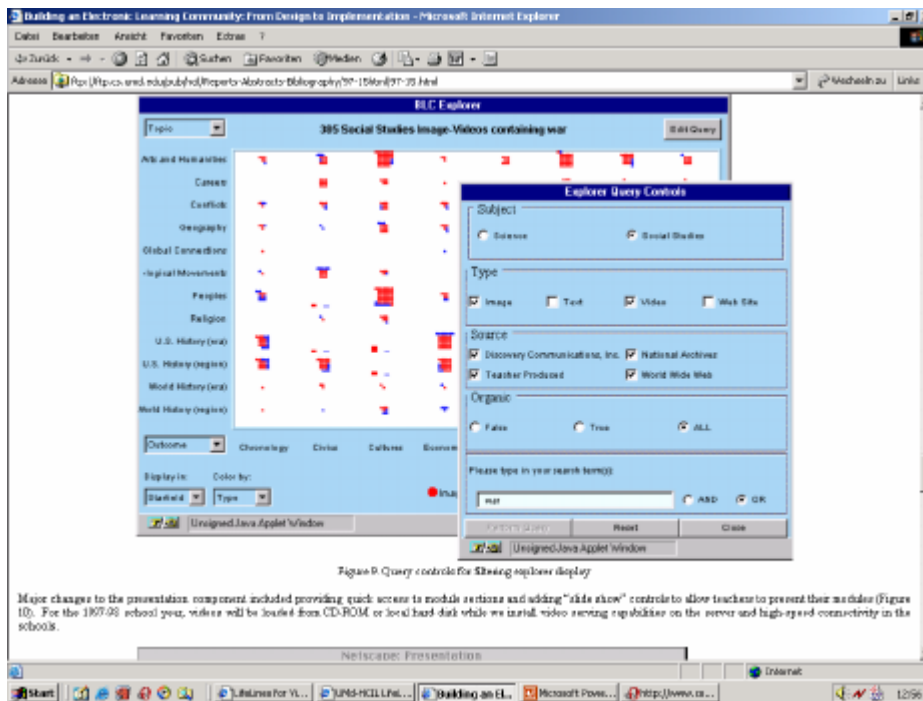
- resource library

Year of Item	Control Number	Author	Author Code	Book Title	Publisher	Proceeding Title	Conference
1998	av2340	INT	INT	16CA'25 -- Proceedings of the 16rd Annual International Symp.	ACN		
1998	av2398	INT	INT	25 Years of the Internation Symposia on Computer Architectur.	ACN		
1998	av2402	ACN	ACN	Proceedings of the 8th International Conference on Architect	ACN		
1998	av2392	ACN	ACN	"Proceedings of the ACN SIGCOMM'98 Conference: Applications,	ACN		
1998	av2391	ACN	ACN	5th ACN Conference on Computer and Communications Security	ACN		
1998	av2380	Mohamed G. Gouda	GOU	Elements of Network Protocol Design	Wiley		
1998	av2160	S. V. Raghavan, Satish K. Tripathi	RAG	"Networked Multimedia Systems: Concepts, Architecture, and D.	ACN		
1998	av2339	ACN	ACN	SIGMETRICS'98 ACN SIGMETRICS International Conference on Mea	ACN		
1998	av2403	ACN	ACN	Proceedings of the ACN SIGPLAN International Conference on F	ACN		
1998	av2362	OOPSLA, Object-Oriented Programming Systems Languages and Applications	OOP		ACN Press		
1998	av2372	Grady Booch, James Rumbaugh	BOO	The Unified Modeling Language User Guide	Addison Wesley		
1998	av2399	ACN	ACN	ACN SIGSOFT Sixth International Symposium on the Foundations	ACN		
1998	av2351	Shari Lawrence Pileeger	PFL	Software Engineering: Theory and Practice	Prentice Hall		
1998	av2361	Wayne C. Liu	LIN	Managing Software Reuse : A Comprehensive Guide to Strategically Reengineering the O	ACN		
1998	av2255	ACN	ACN	ACN SIGSOFT International Symposium on Software Testing and	ACN		
1998	av2243	Jeffrey N. Voas, Gary McGraw	VOA	Software Fault Injection : Inoculating Programs Against Errors	Wile		
1998	av2214	Jeffrey D. Ullman	ULL	Elements of ML Programming	Prentice Hall		
1998	av2338	ACN	ACN	Proceedings of the ACN SIGPLAN 1998 Conference on Programmin	ACN		
1998	av2218	Glenn W. Rowe	ROW	An Introduction to Data Structures and Algorithms with Java	Prentice Hall		
1998	av2216	Caleb Drake	DRA	Object-Oriented Programming with C++ and Smalltalk	Prentice Hall		
1998	av2314	Sartaj Sahni	SAH	"Data Structures, Algorithms and Application in C++"	McGraw Hill		
1998	av2355	H. M. Deitel, P. J. Deitel	DEI	C++ How to Program	Prentice Hall		
1998	av2365	Robert Eckstein, Marc Loy	ECK	JAVA Swing	O'Reilly		
1998	av2366	Scott Oaks	OAK	JAVA Security	O'Reilly		
1998	av2367	Charles G. Goldfarb, Paul Prescod	GOL	The XML Handbook	Prentice Hall		
1998	av2373	Dennis Kafura	KAF	Object-Oriented Software Design and Construction with C++	Prentice Hall		
1998	av2377	Alan Burns, Andy Wellings	BUR	Concurrency in Ada	Cambridge University Press		
1998	av2379	Peter Wright	WRI	Peter Wright's Beginning Visual Basic 6 Workbook	Prentice Hall		
1998	av2246	Linda McCarthy	MCC	Intranet Security: Stories From the Trenches	Prentice Hall		
1998	av2280	Jan C. A. Van Der Lubbe	VAN	Basic Methods of Cryptography	Cambridge		
1998	av2279	Neal Kobbits	KOB	Algebraic Aspects of Cryptography	Springer		
1998	av2267	ACN	ACN	SIGMOD - Proceedings of the 1998 ACM SIGMOD International Co	ACN		
1998	av2320	ACN	DAT	Proceedings to the Fourteenth International Conference on Da	ACN		
1998	av2154	Harry R. Lewis, Christos H. Papadimitriou	LEW	Elements of the Theory of Computation	Prentice Hal		
1998	av2176	Bernard H. Moret	MOR	The Theory of Computation	Addison-Wesley		

GRIDL – Datentypen/Datenarten

- Datensätze > Suchergebnisse
- Standorte
- Parameter, die einem Datensatz zugeordnet werden

GRIDL – Interaktionen



- Ansichten / Achsen wechseln
- The indexing process involves mapping a resource to one or more topic-outcome pairs
- Zoom in die Datensätze
- Details on demand

GRIDL – Links

- <http://www.cs.umd.edu/hcil/west-legal/dotfire/>
- <http://www.cs.umd.edu/hcil/west-legal/gridl/index.java1.1.html>
- <http://www.cs.umd.edu/hcil/west-legal/gridl/index.converted.html>

GRIDL – Task

- Finde alle Proceedings, aus dem Jahr 1997, die zum Thema Approximation vorhanden sind?

GRIDL – Vorteile/Stärken

- Sortierte Anzeige
- Überblick über Relationen
- Browse

GRIDL – Nachteile/Schwächen

- Verständnisschwierigkeiten
- Scrollfähigkeit
- Platzproblem

Vielen Dank!

