Digital sketchbook / external, visual memory

Background research / feasibility study

25 January, 2005

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Together with:
Ralph Ammer

"The details are not the details. They make the design."

Charles Eames (found @dynamicdiagrams.com)

1   Abstract

In this document we try to present a brief overview of the different ways of visualising databases with special regard to their accessibility and principles of use.

Our questions are:
What is the relationship between the content and its visual structure & organisation? How do people access it and interact with it? Are the results comprehensible? How important are transitions, progressions? Is there a particular difference between "Visual Explanations" and "Database Visualisations"?

Gmail

Thinkmap.com

Thinkmap that allows users to search for songs by artist name, song title, date published, and subject matter (what is "subject matter"?)

spatial analysis
of nonspatial data: the word "over"

The central peak represents the word "over." The other points identify synonyms of "over." The height of each point reflects the number of occurrences of that synonym in the dataset. To the top right is "above" and to the lower right is "past." The cluster on the left represents such synonyms as "throughout," "all over," and "roundabout;" and those toward the bottom, "extra," "remaining," "leftover" and so on.
http://gis.esri.com/library/userconf/proc00/professional/papers/PAP196/p196.htm

Treemap by Ben Shneiderman

Omnigraffle, mindmapping tool:
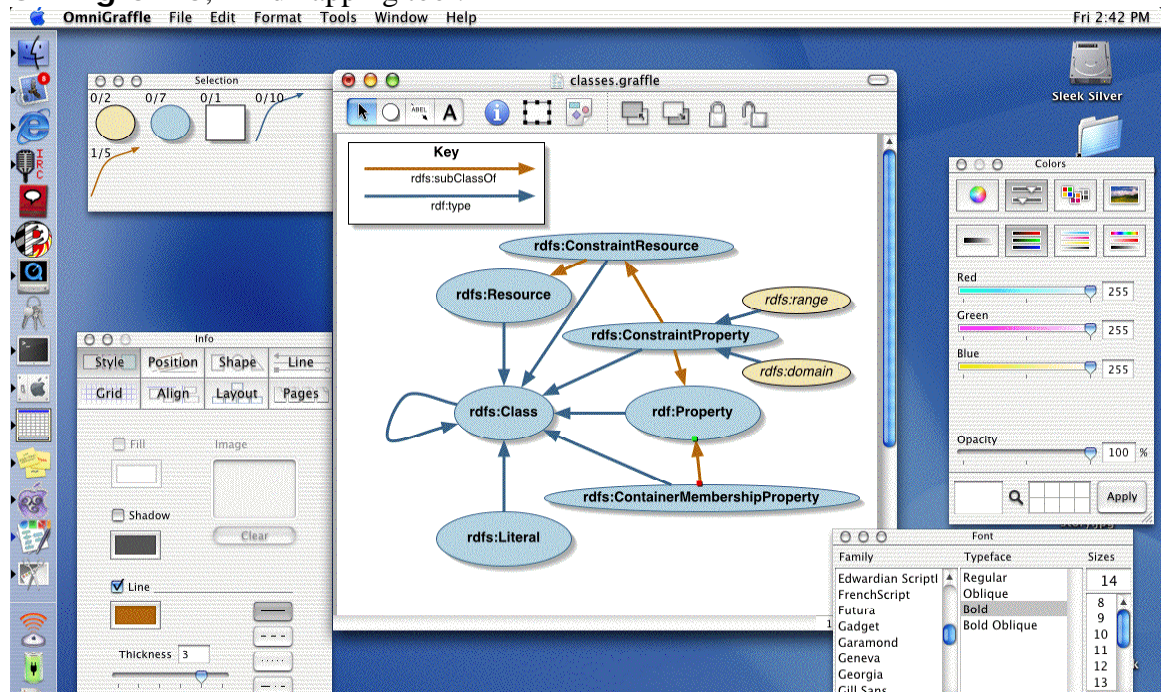
Xcruise

By Yusuke Shinyama
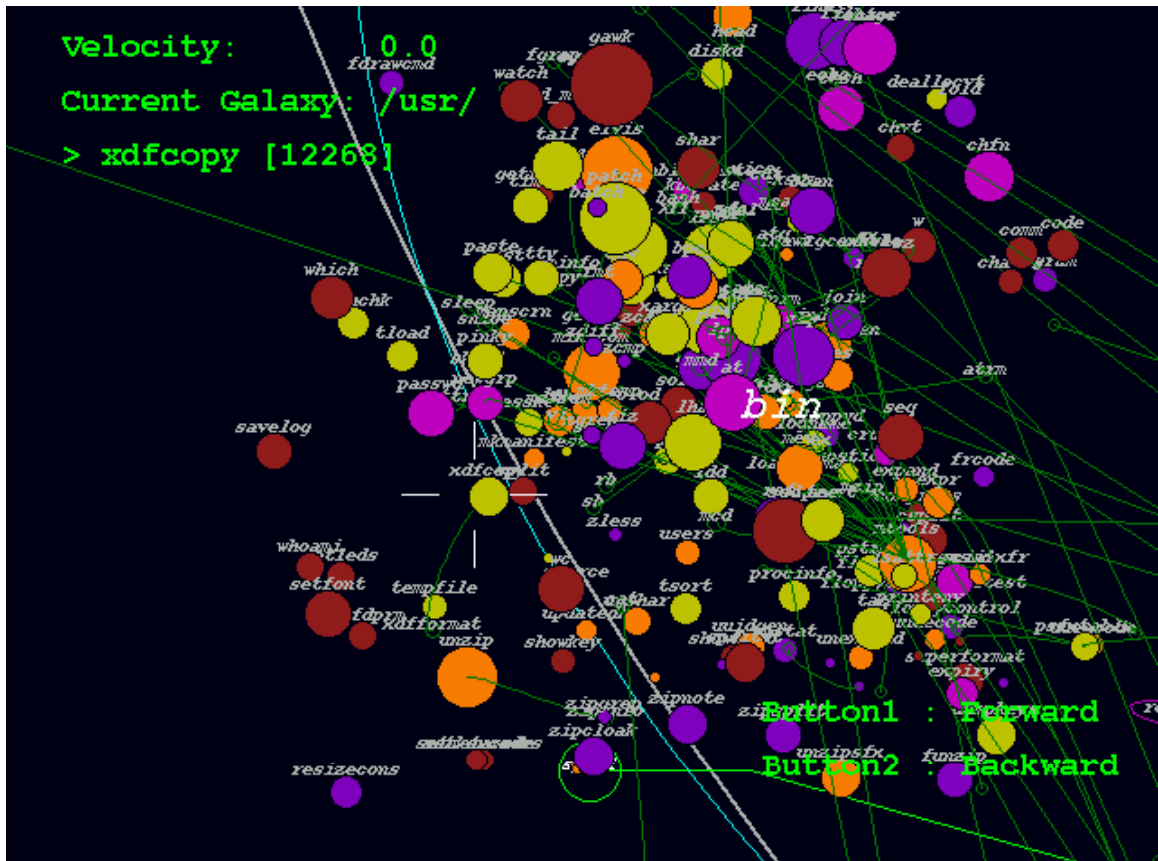
"Zoom-interface"
by Jeff Ruskin

Press and hold the up arrow key to zoom in, and the down arrow key to zoom out. Use the mouse to point at what you want to be in the center of the display as you zoom in. Just keep the point of the cursor on the detail you want to look at.
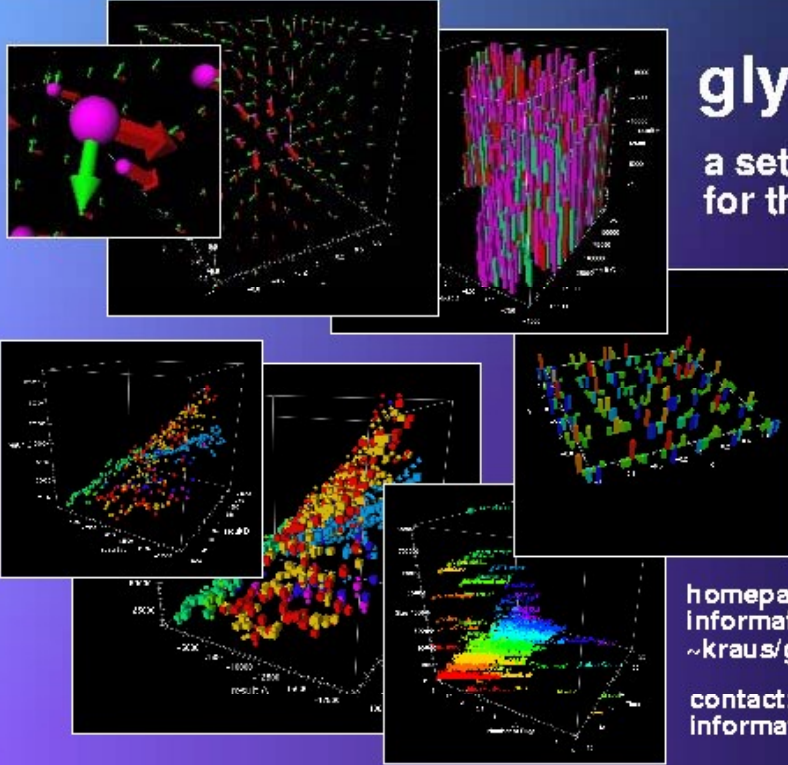
To pan the picture, hold the mouse button whilst moving the mouse.

If you get lost, zoom out to gain perspective.

Shockwave demo in folder and at http://nooface.net/

"Glyphs"
by Universität Stuttgart

The aim of the glyphs project is to provide a set of IRIS Explorer modules which allow non-programmers to interactively visualize scattered data points or data on a grid using customizable glyphs.
http://www.vis.uni-stuttgart.de/~kraus/glyphs/

Trace encounters

by Jefferson Y. Han, Bradford Paley http://www.traceencounters.org/
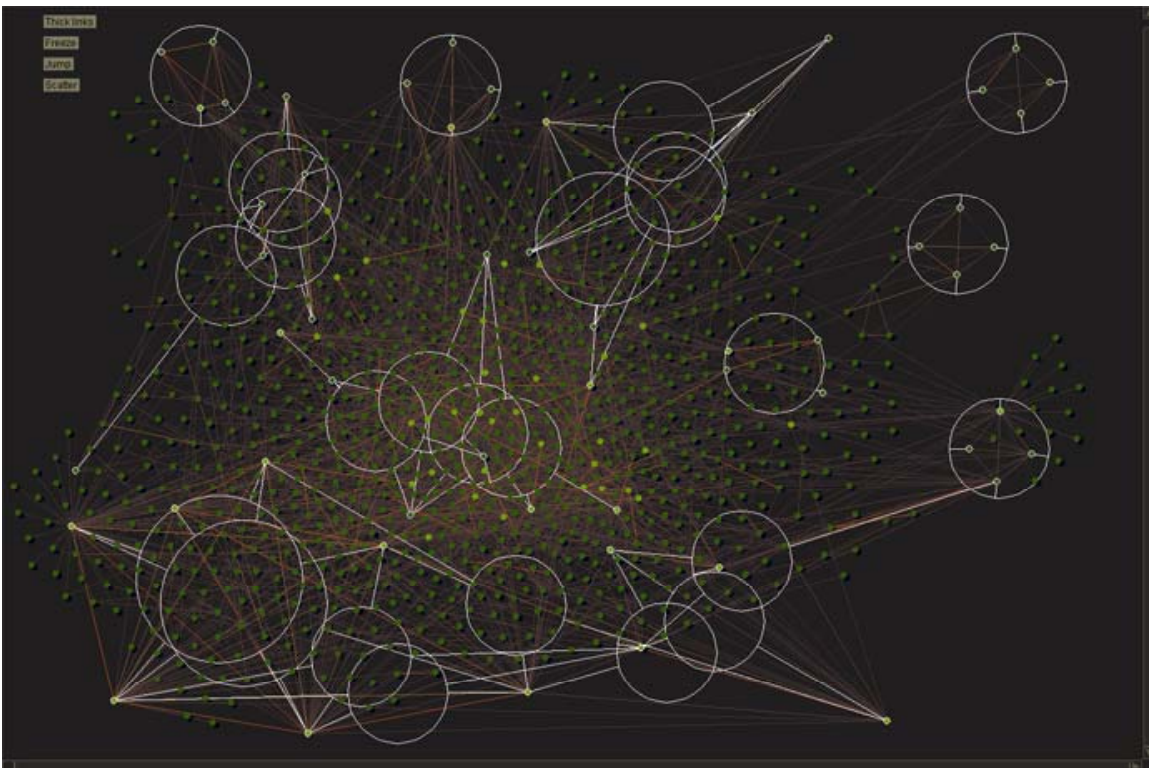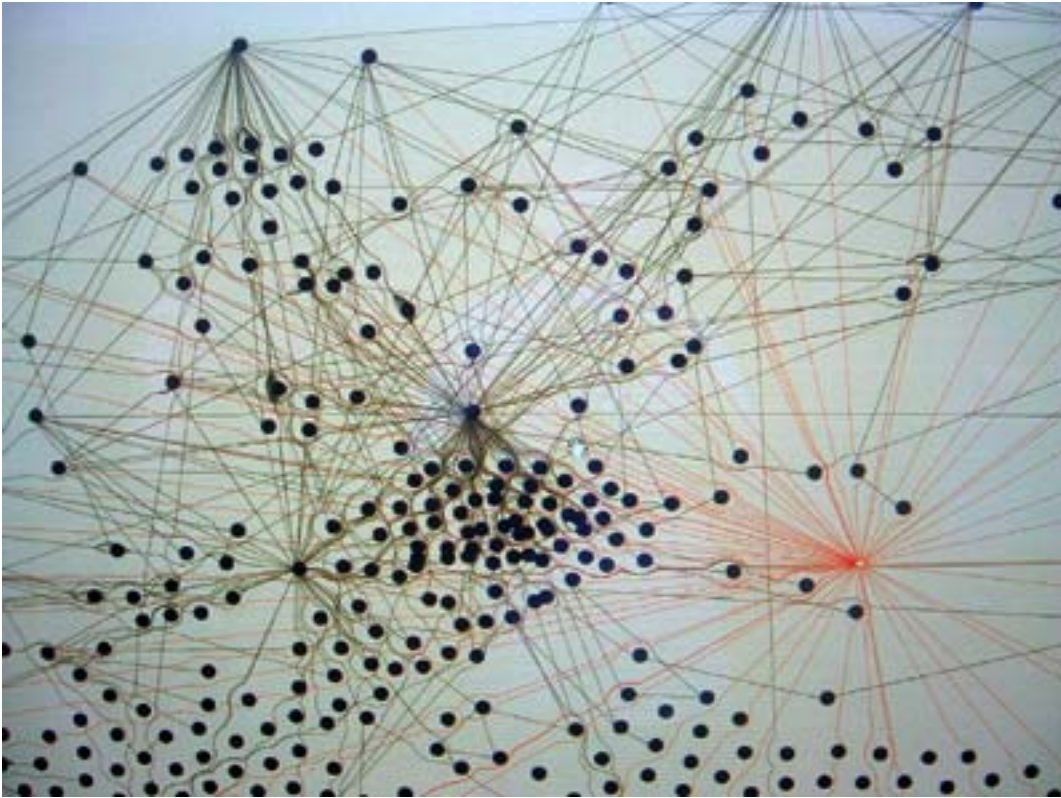
Masaki Fujihata:

"Field Works@Alsace"
Influence: Spacial organization of moving image over time in space
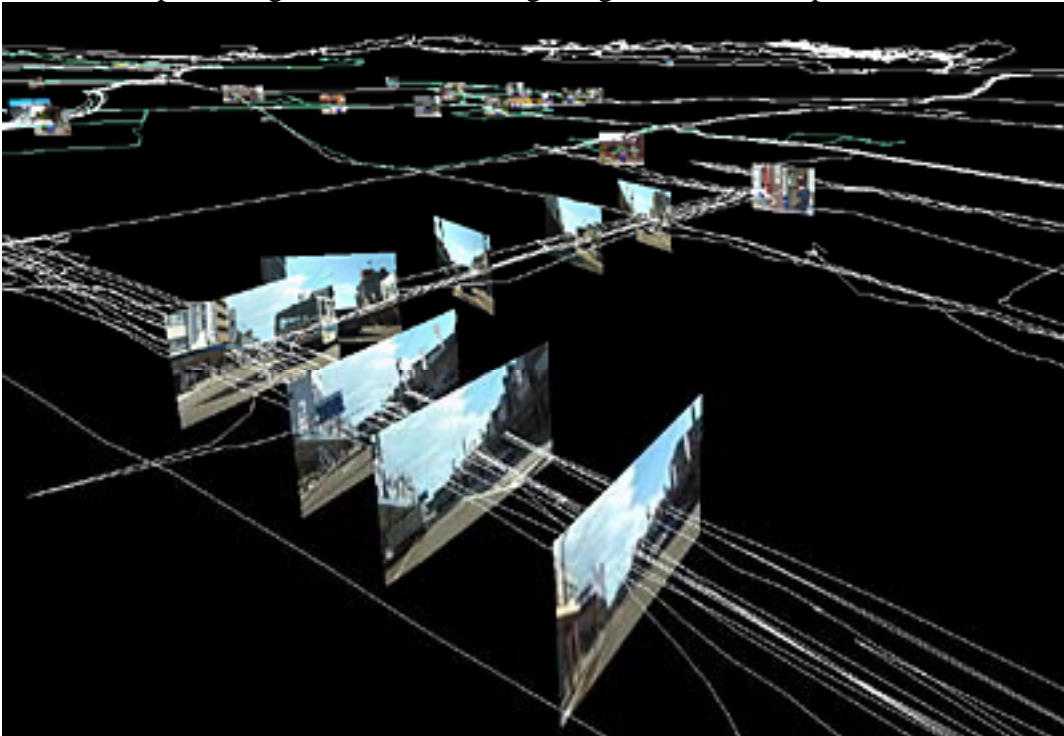
from http://www.daniel-sauter.com/display.php?project_id=16

Mac OS "Tiger"

Meta-Data is stored separately

Mac OS X "Expose"

Animated zoom creating an overview over open windows
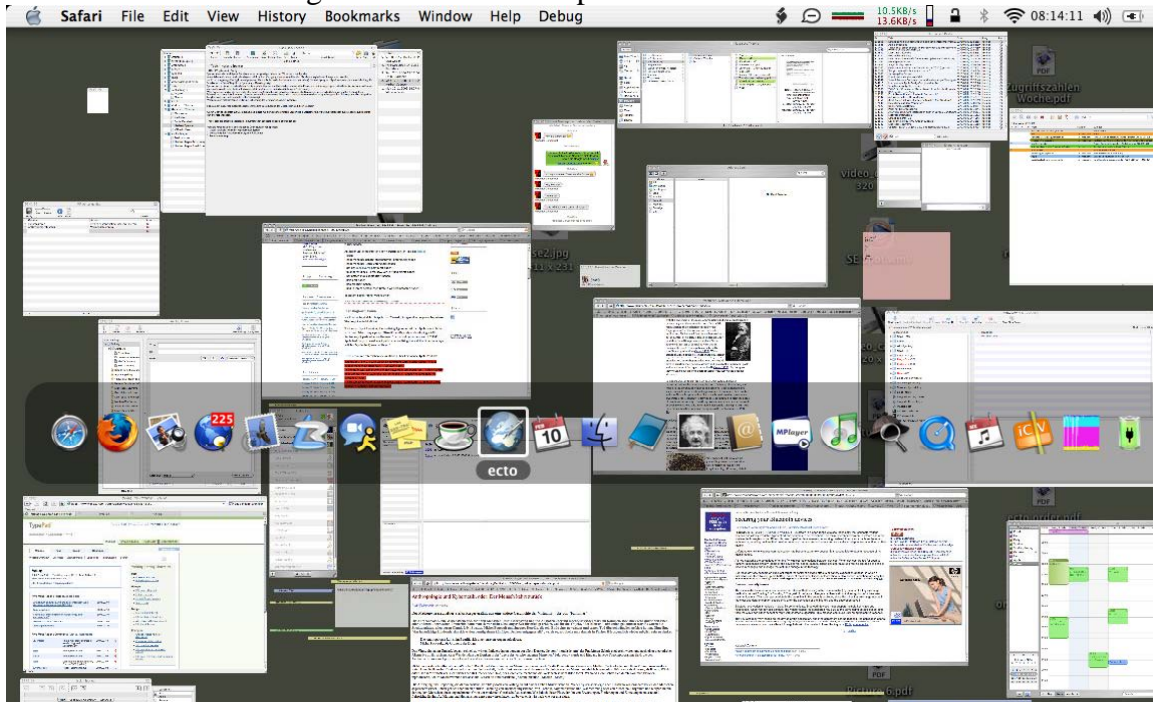
Dynamicdiagrams

From dynamicdiagrams.com

Different methods of displaying websites

Prototype Diagrams

These four prototype diagrams each represented a different potential focus for our analysis.

Inventory Diagram, Different Views

The inventory diagram groups individual pages with more room for annotation. As above, different views show different groups of pages.
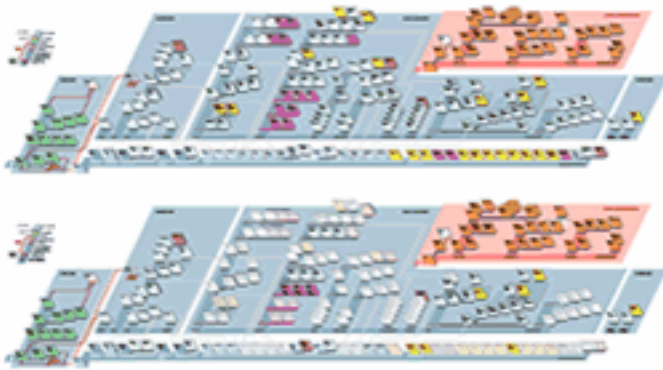
Isometric Diagram, Different Views
The isometric diagram shows the interlinked structure of the site. Specific pages are "grayed out" depending on the state being viewed.

Both are site diagrams:
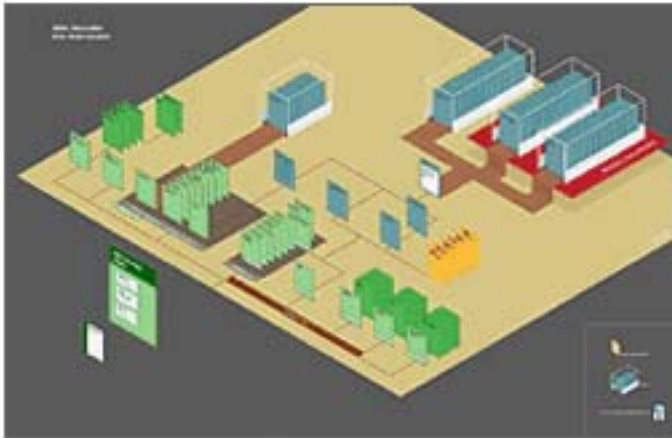
AMA Publications Site Diagram

The site's content groups, navigational paths, and access-control levels are all shown in this high-level planning diagram.
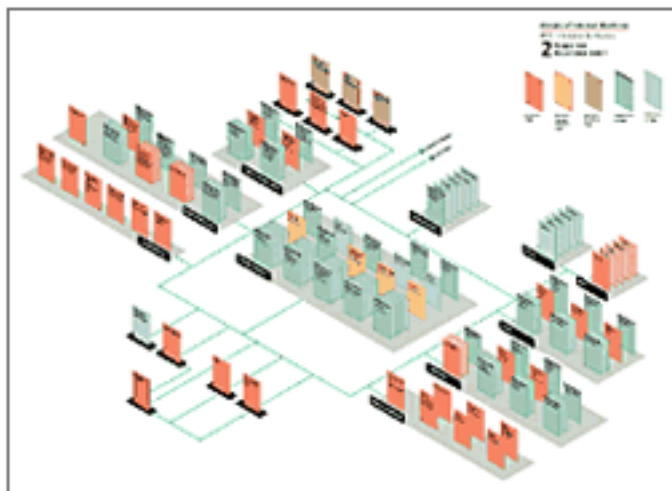
Annals Site Diagram

Color coding shows various levels of access for a registered guest.

Concrete Poetry
The content and its structure

Eugen Gomringer: "Wind", 1969
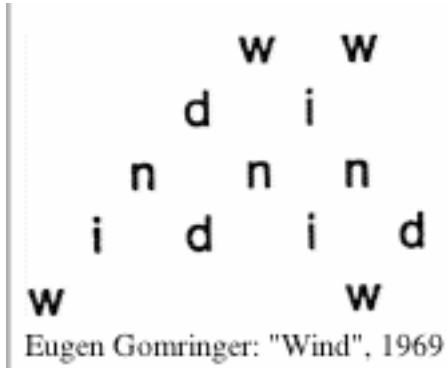
Trail Diagram
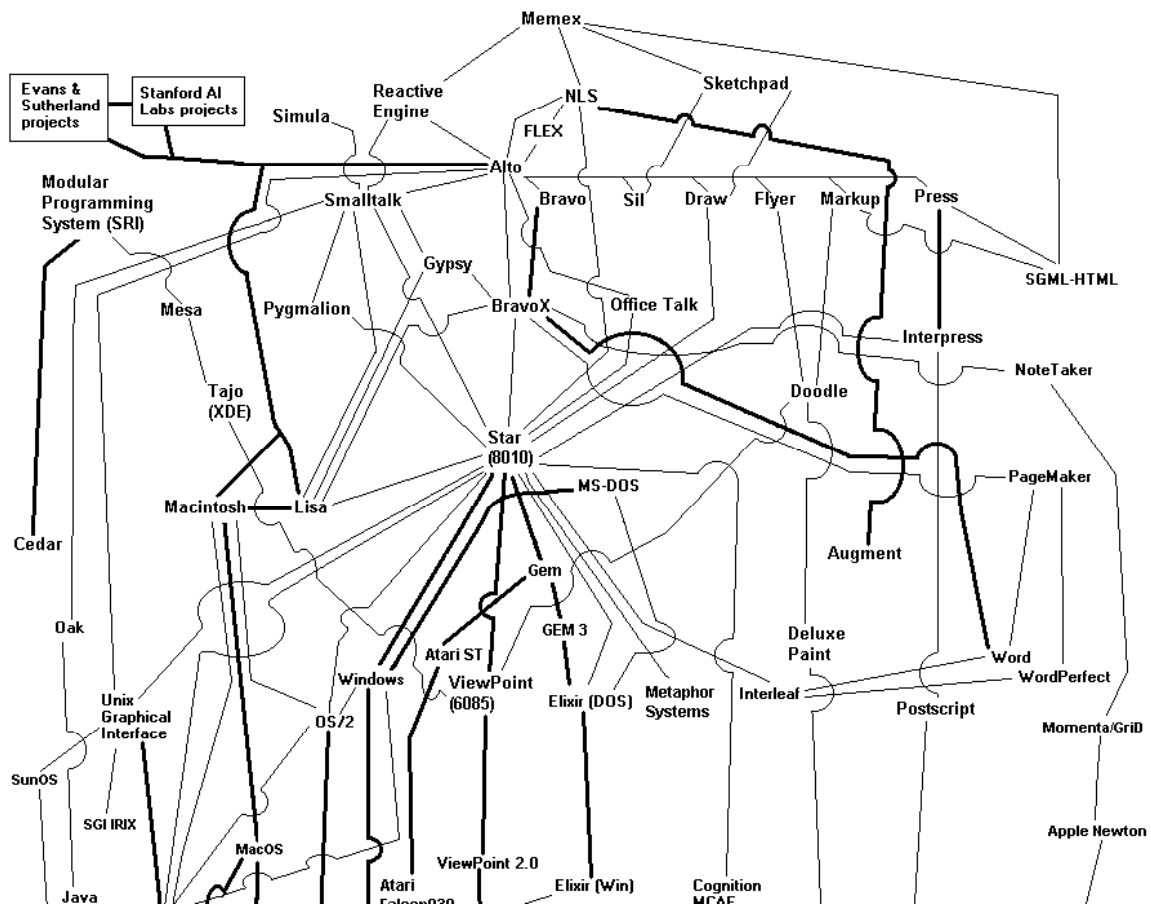
UML (Unified Modelling Language)

Unified Modeling Language Syntax Reference Poster
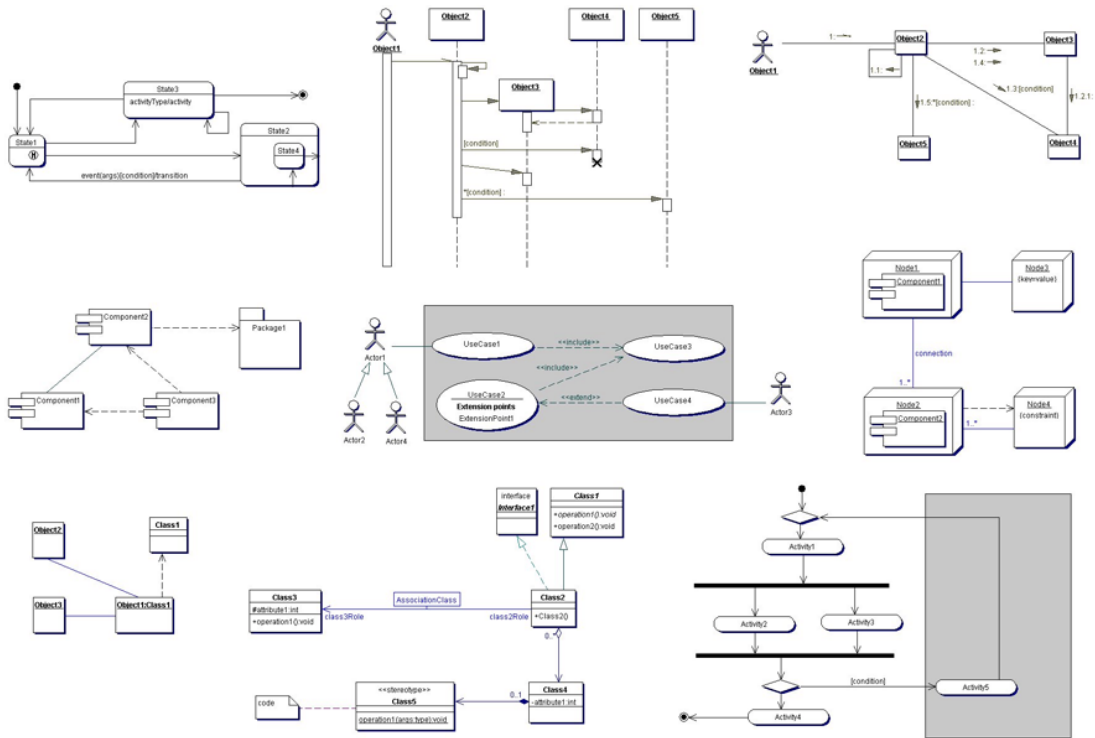
UML Syntax Reference Poster - Claudio De Sio Cesari OO & Java Trainer, Mentor & Consultant - 2002 - http://www.claudiodesio.com

www.claudiodesio.com

Network Connectivity

Backbone Site Connectivity for 6Bone

Tue Jan 25 04:05:17 2005
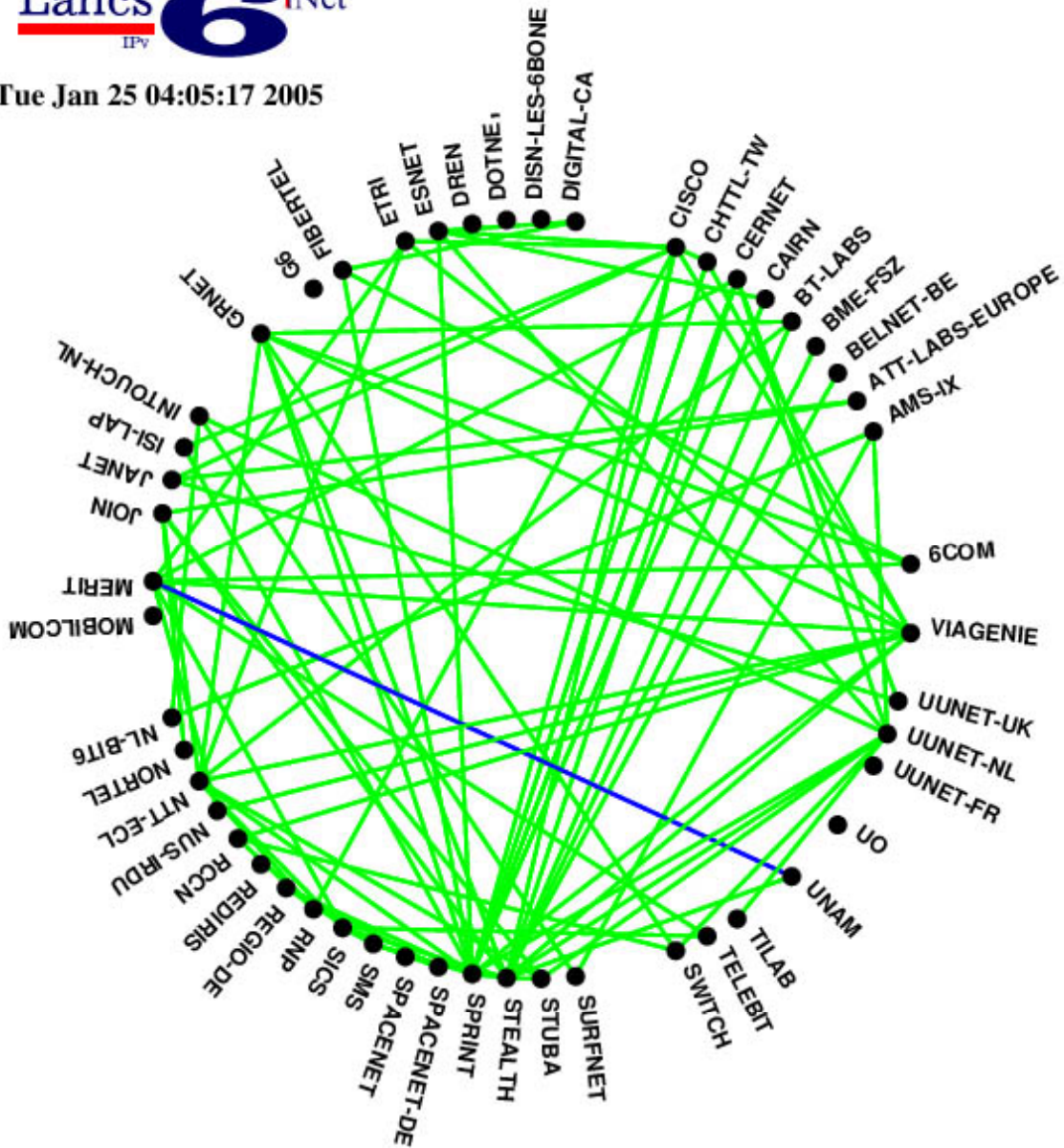
Website User Paths

(VISVIP 3D Visualisation of Variable Instrument Program)
http://www.itl.nist.gov/iaui/vvrg/cugini/webmet/visvip/webvis-paper.html

Interface for path
visualisation

Explain: | **VISVIP** | **Operations** | **Types** | **Parameters**

Control layout of graph of website

Push Factor: `[  ]`

Pull Factor: `[  ]`

Adjacency: `[  ]`

Converge: `[  ]`

Redraw: `[  ]`

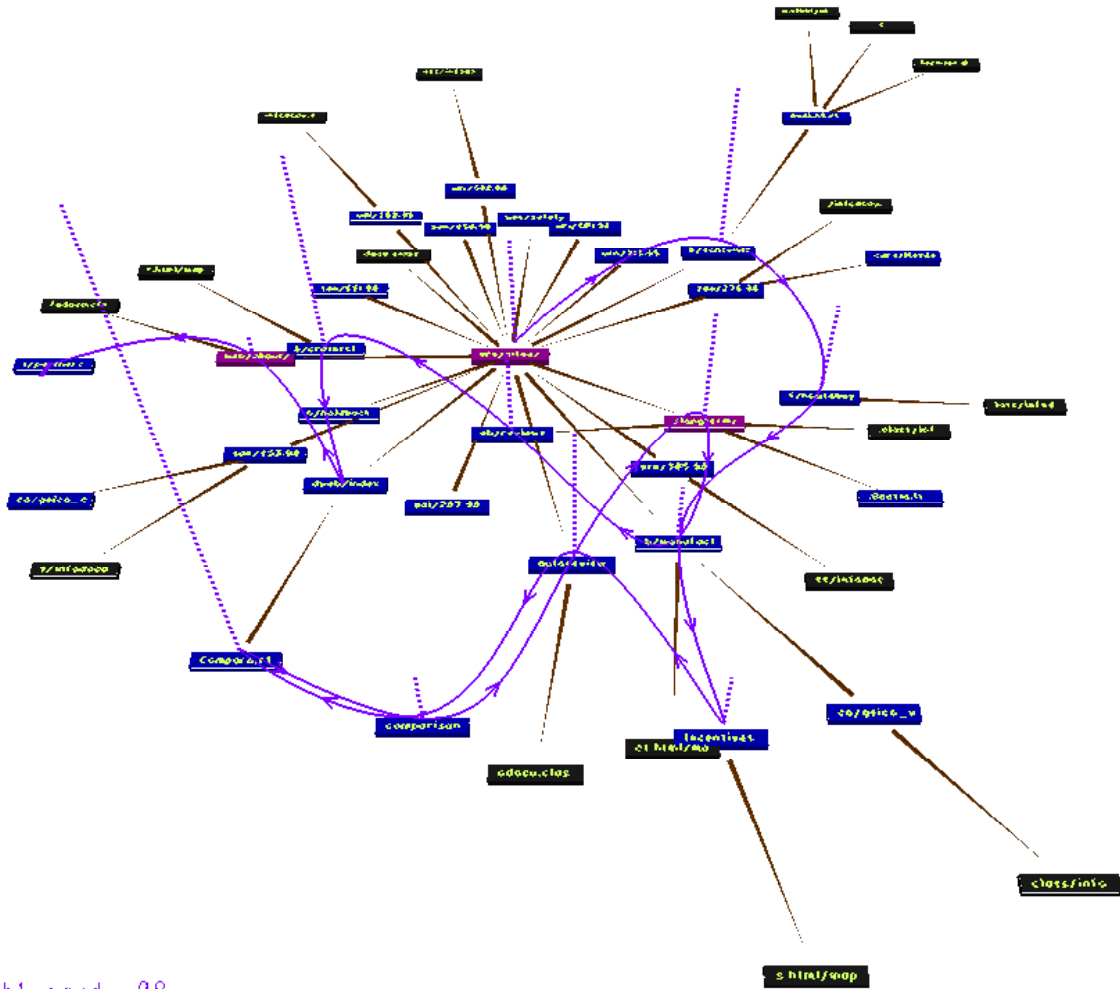Node Ops: | **Stick** | **Slip** | **Filter** | **Scatter**

Proximity to userpath: | ⌄ 0 | ⌄ 1 | ⌄ 2 | ◇ **All**

Connectivity: | ◇ **Page link** | ⌄ **User jump** | ⌄ **Link or jump**

Node Locations: | **Save** | **Restore**

Control display of user–paths within website

Userpaths: | **Show All** | **Hide All** | **Select Which**

Playback: | **Start** | ☐ **Pause**

Relative speed: 10
`[  ]`
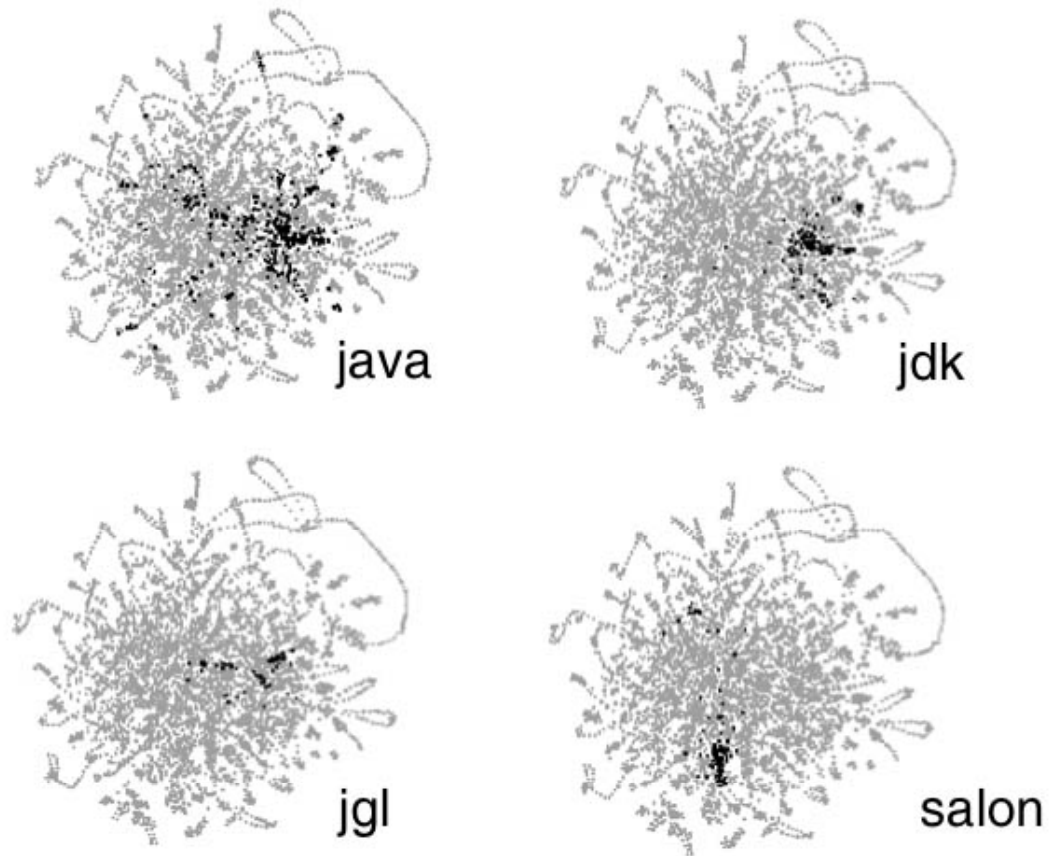
Time from start: 278
`[  ]`

Display: ☐ **Cumulative** ☐ **Path** ☐ **Term**
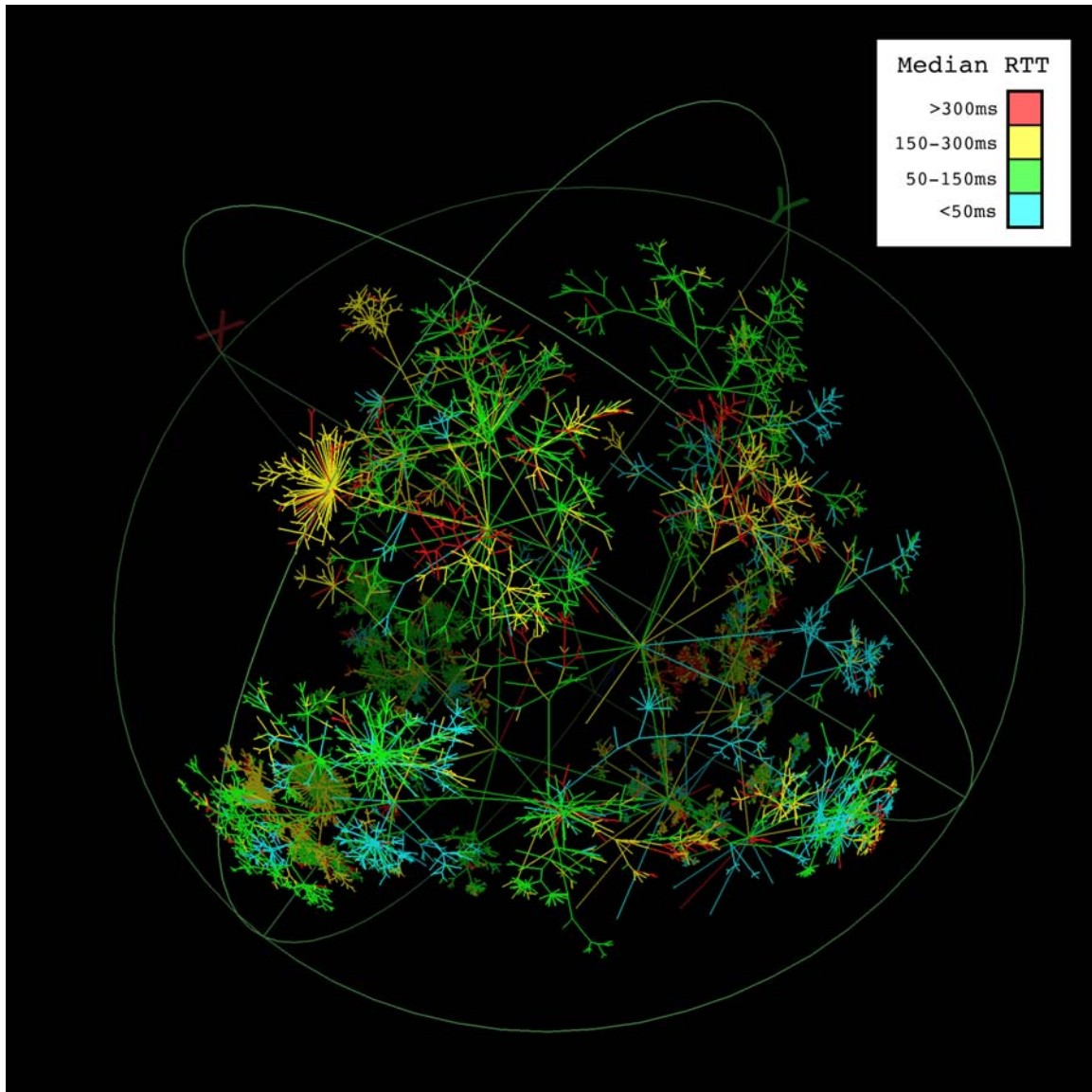
"Trailmaps", by Matthew Chalmers, Glasgow

The path shows past activity; usage history and not content analysis.

Walrus

from CAIDA:

showing TIME to different websites.

CodeRed Infections
(hosts per prefix)
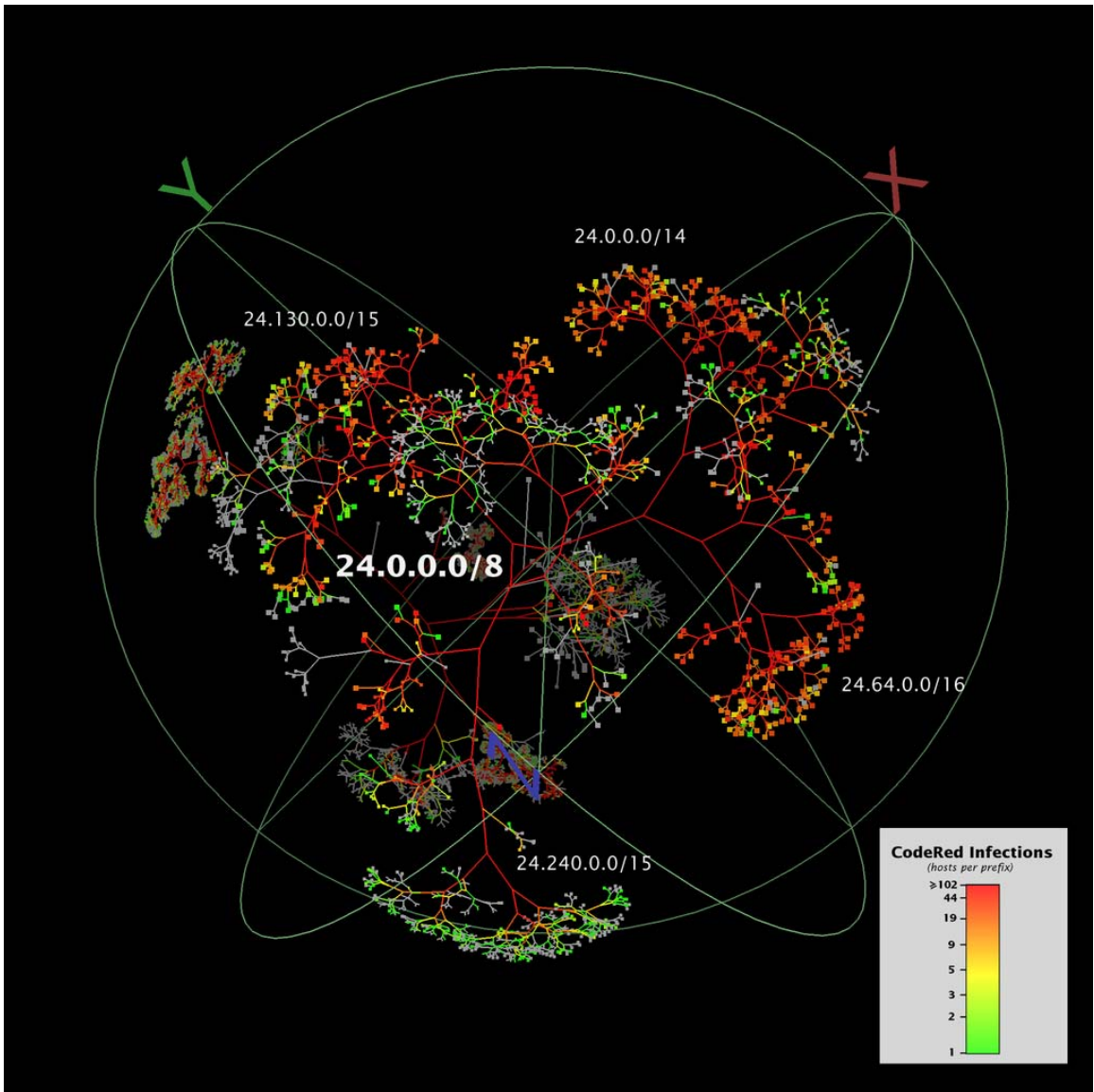
200ok, mindmap menu

http://www.200ok.de
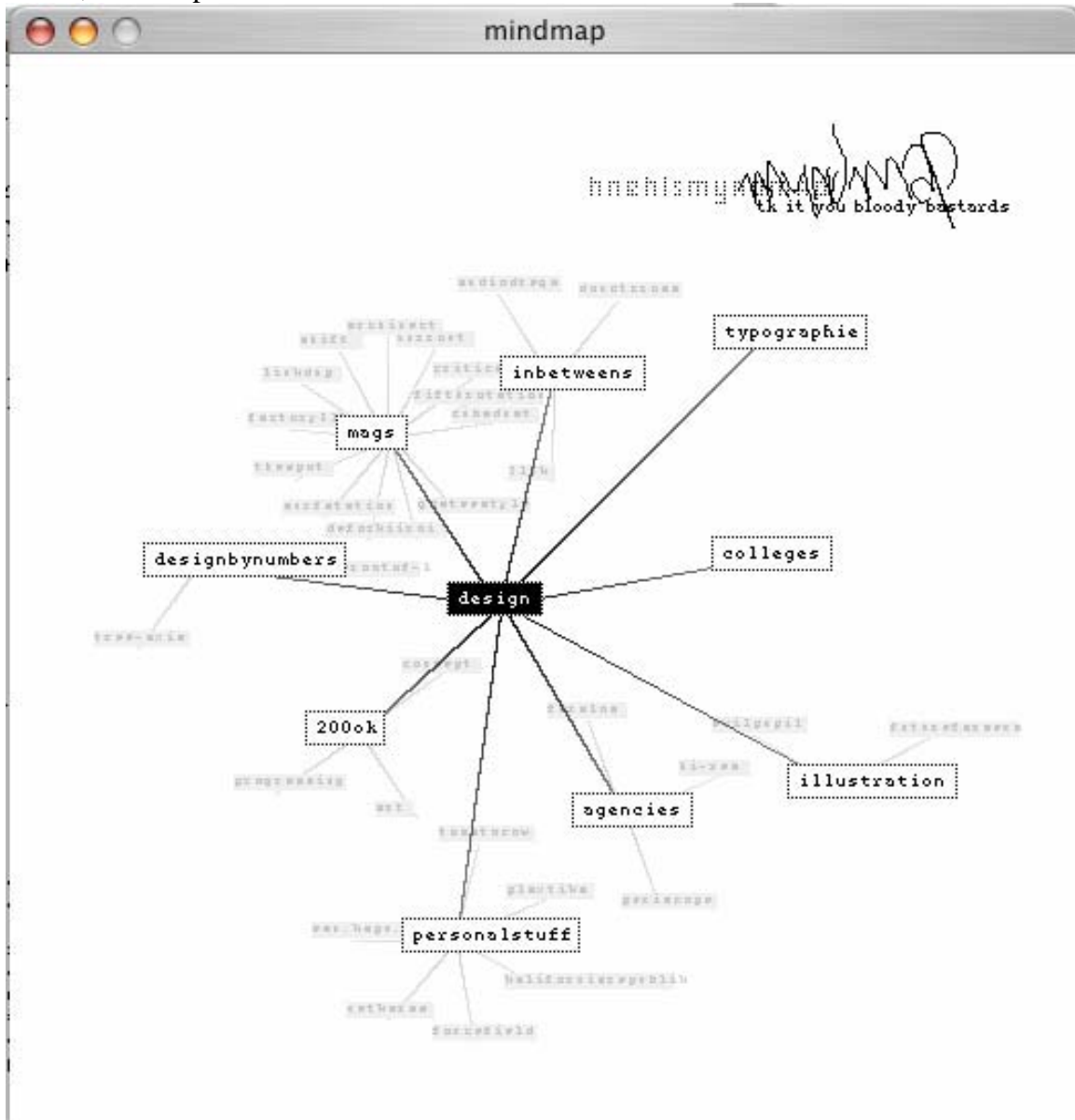
Ben Fry "text"
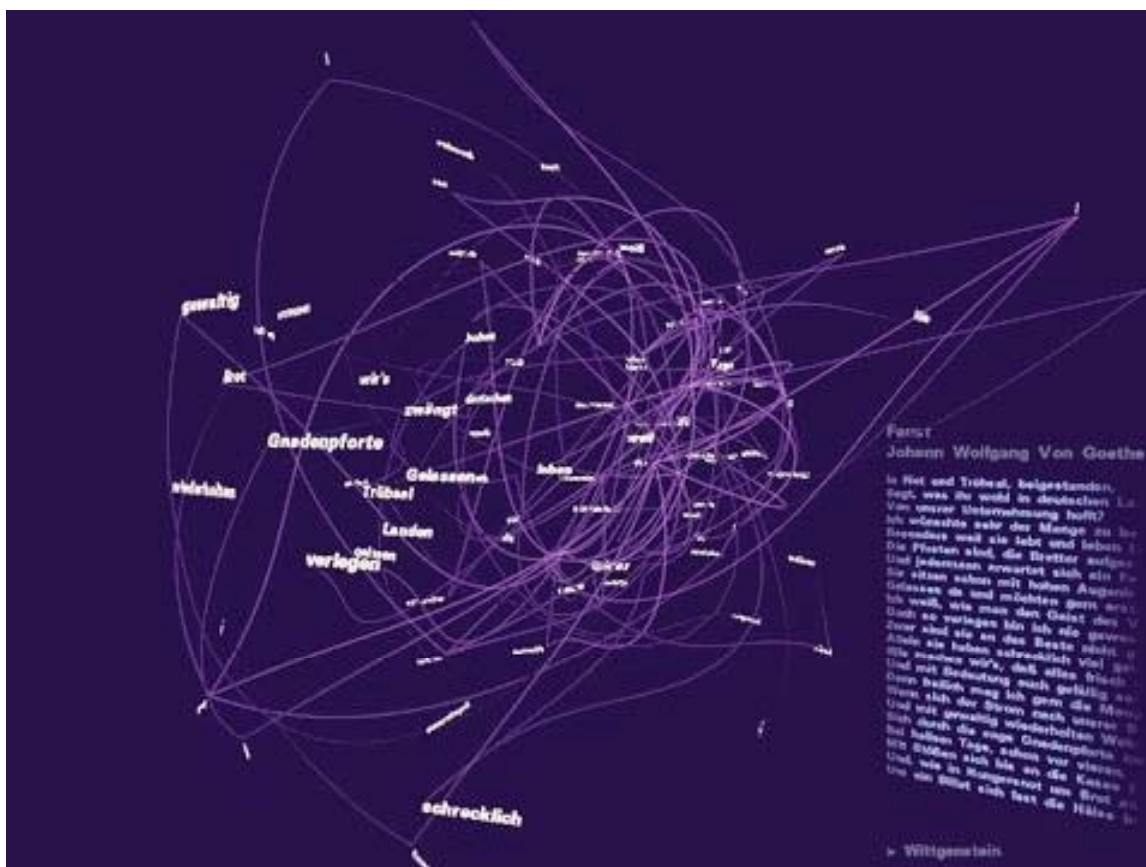
Flickr search interface:

Flickr results for tag search:

"a word says more then 1,000 images" (T. Bolsinger)

www.flickr.com

IPhoto: Picture organiser / viewer, The overview is the interface, zoom into icon
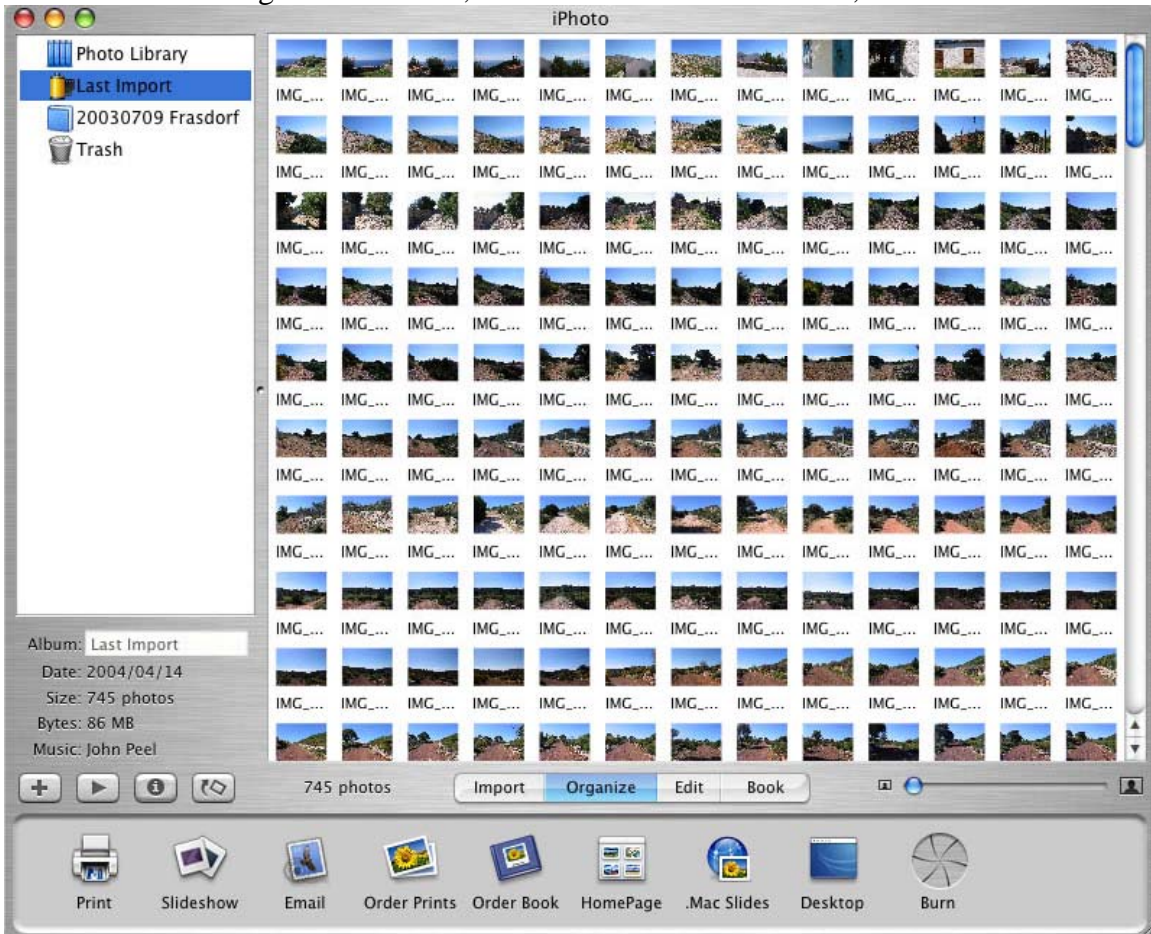
Picasa picture organiser (by google)

http://www.picasa.com/

Website diagram:

http://www.iisbook.com/pages/images.html
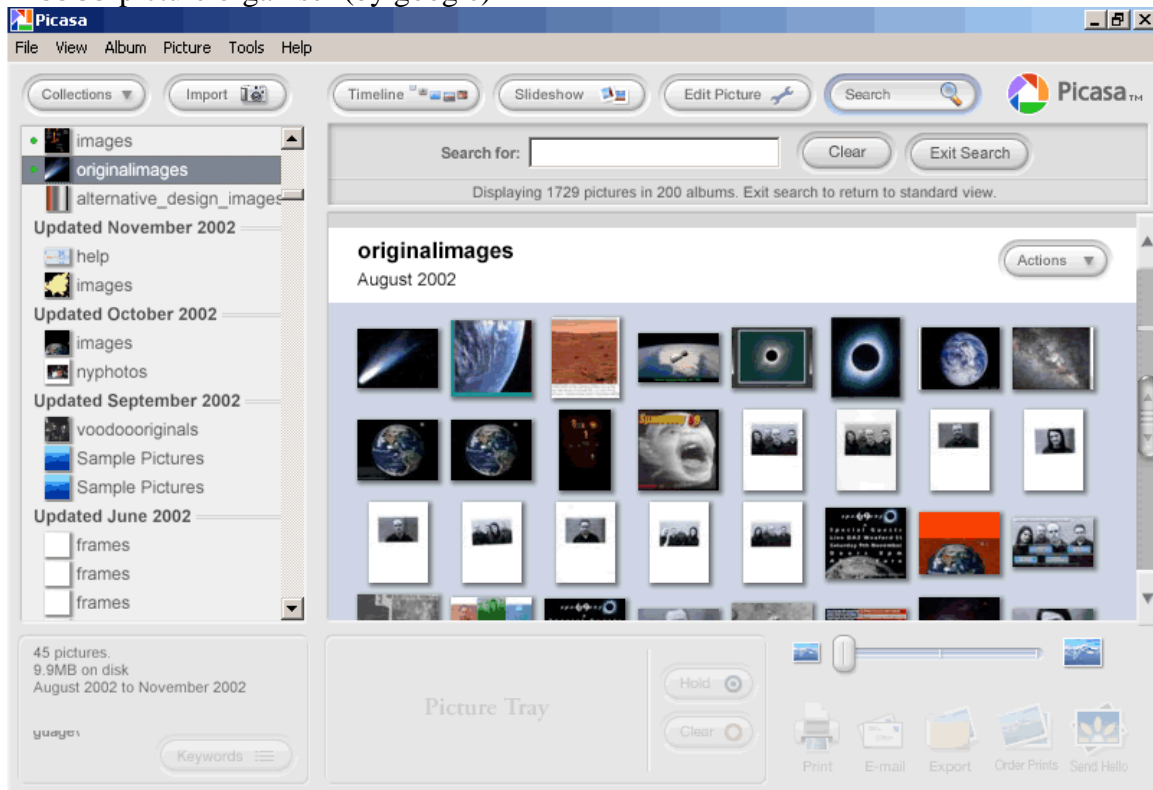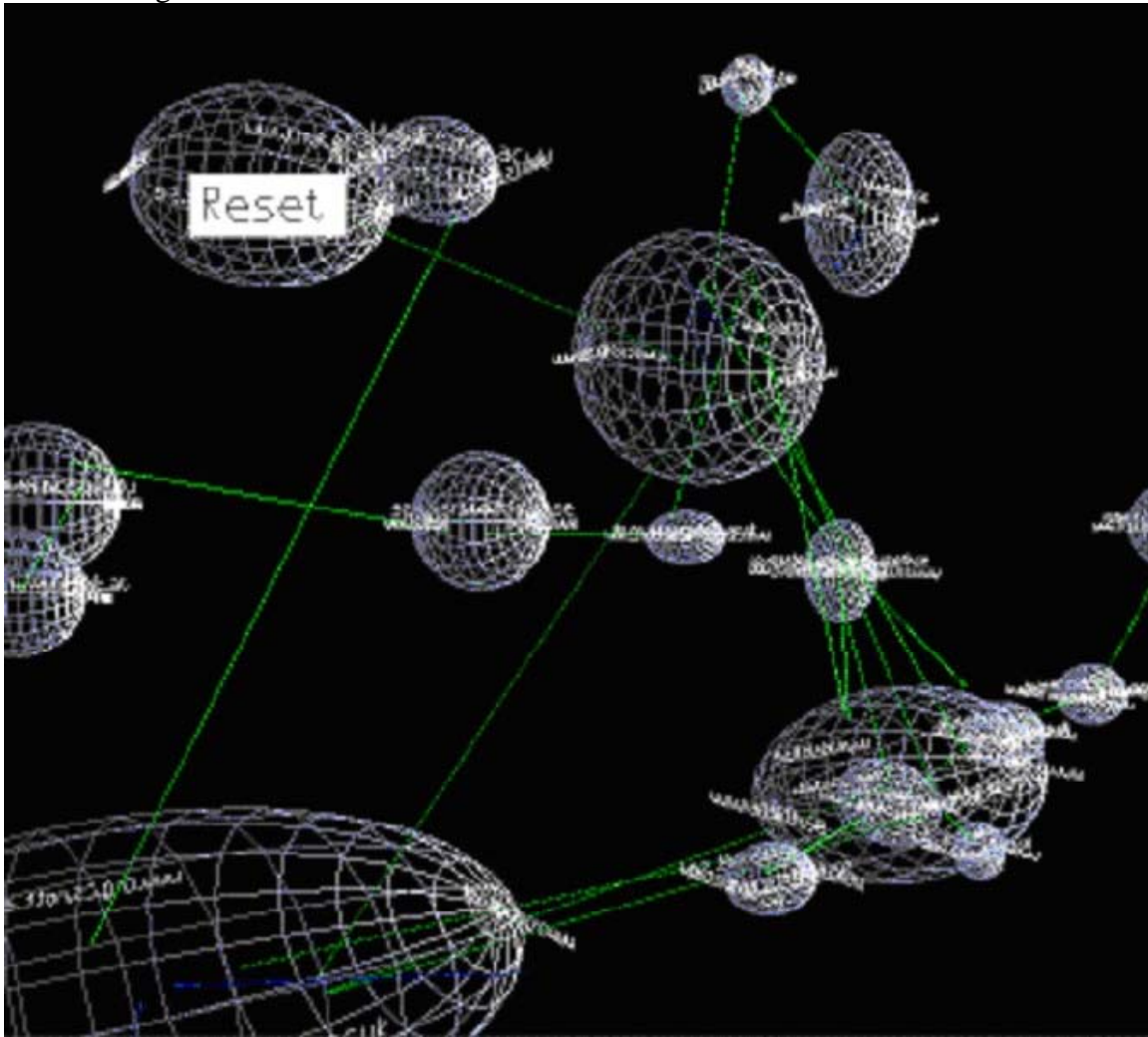
"interactive pond"
for information visualisation and exploration by Olov Ståhl, Anders Wallberg
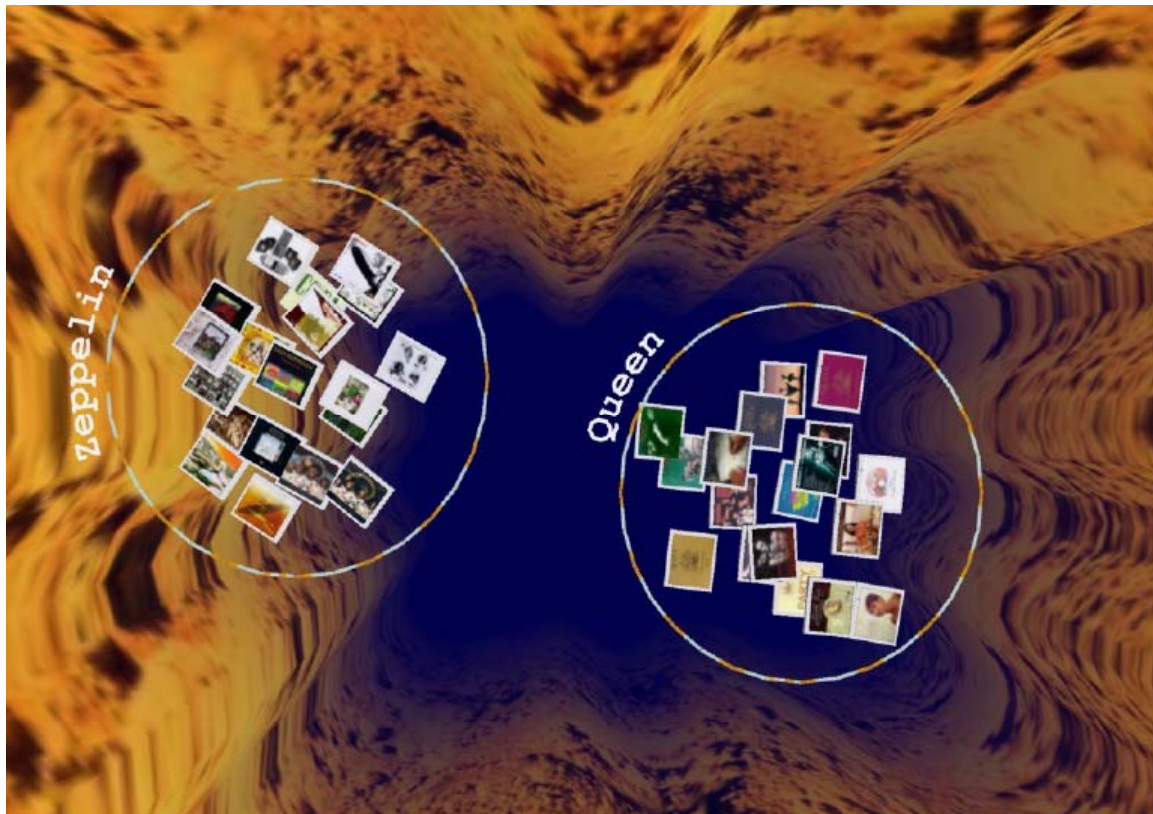
http://www.iisbook.com/images/F_04_01.JPG

Don't confuse Operating Systems, File View, Search and "image organiser" applications..
They all are visualising data. Helping to organise data.
"sketchbook" is not an organiser, but expected to enhance creativity and create insights
by allowing among others to access, enhance, magnify, zoom and filter sketches in an
enlightening way.

Lifestream (file system)

QuickTime™ and a
TIFF (Uncompressed) decompressor
are needed to see this picture.

the filesystem is chronological
http://sigchi.org/chi96/proceedings/videos/Fertig/etf.htm

"Starlight" View of hierarchical file system

http://starlight.pnl.gov/appSecurity.stm
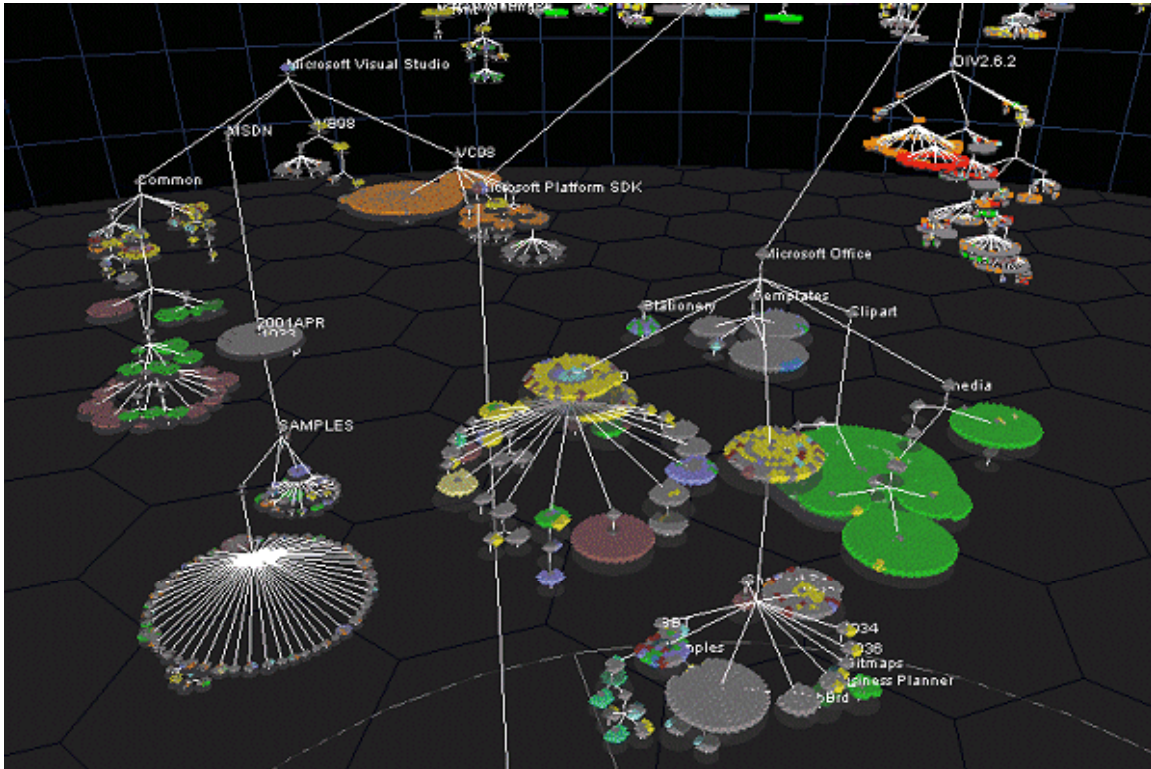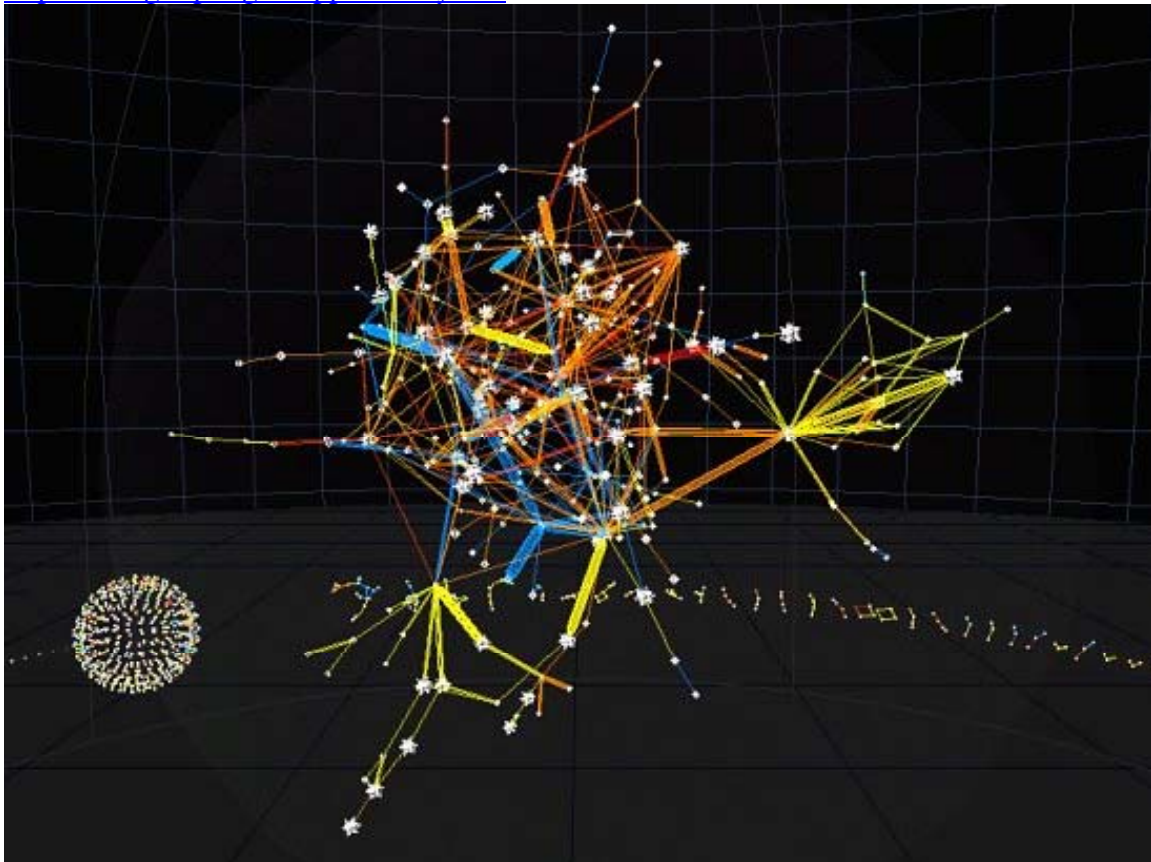
OS X 3D filesystem browser:

"task gallery" Microsoft 3D interface:

Campiello paper interface in Venice
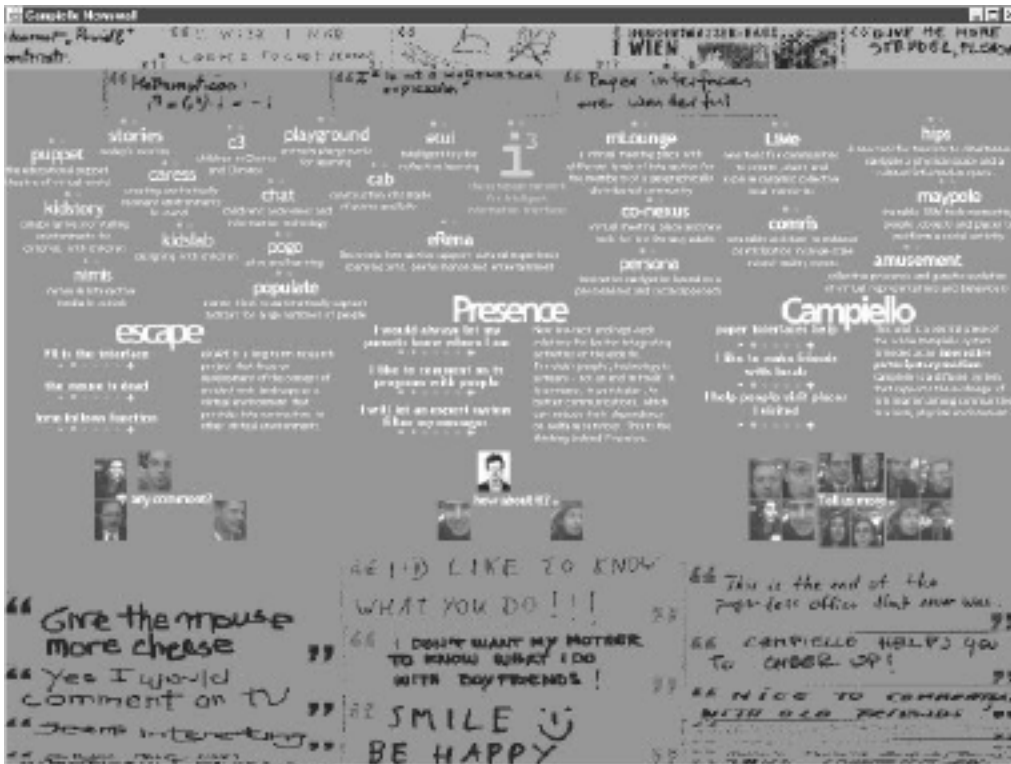
(no example of paper interface "ActiveNewscards" available online.)

LiMe (living memory)

interface by philips to be used on the table (from Gillian)
http://www.design.philips.com/about/design/section-13506/
See movie "in the cafe"
http://www.design.philips.com/assets/Downloadablefile/lime-12959.mov

Dialog table

For multiple users

http://dialogtable.com

Post-Web
Information
Systems Design

KM
ID
IA
XD
ID
CRM

Interaction Design

Experience Design

Customer
Relationship
Management

Knowledge
Management

Information Architecture

Information Design

http://kwc.org/blog/archives/category/pensieve.html
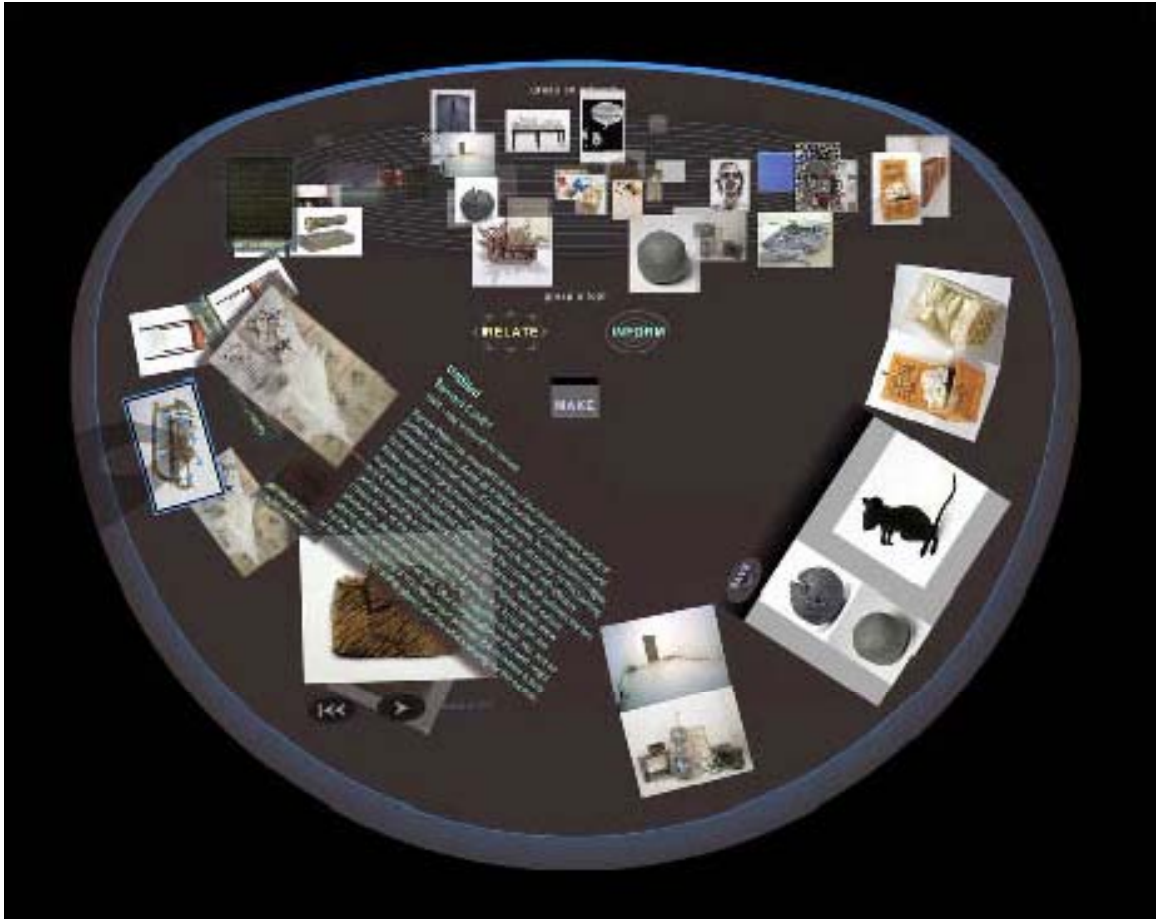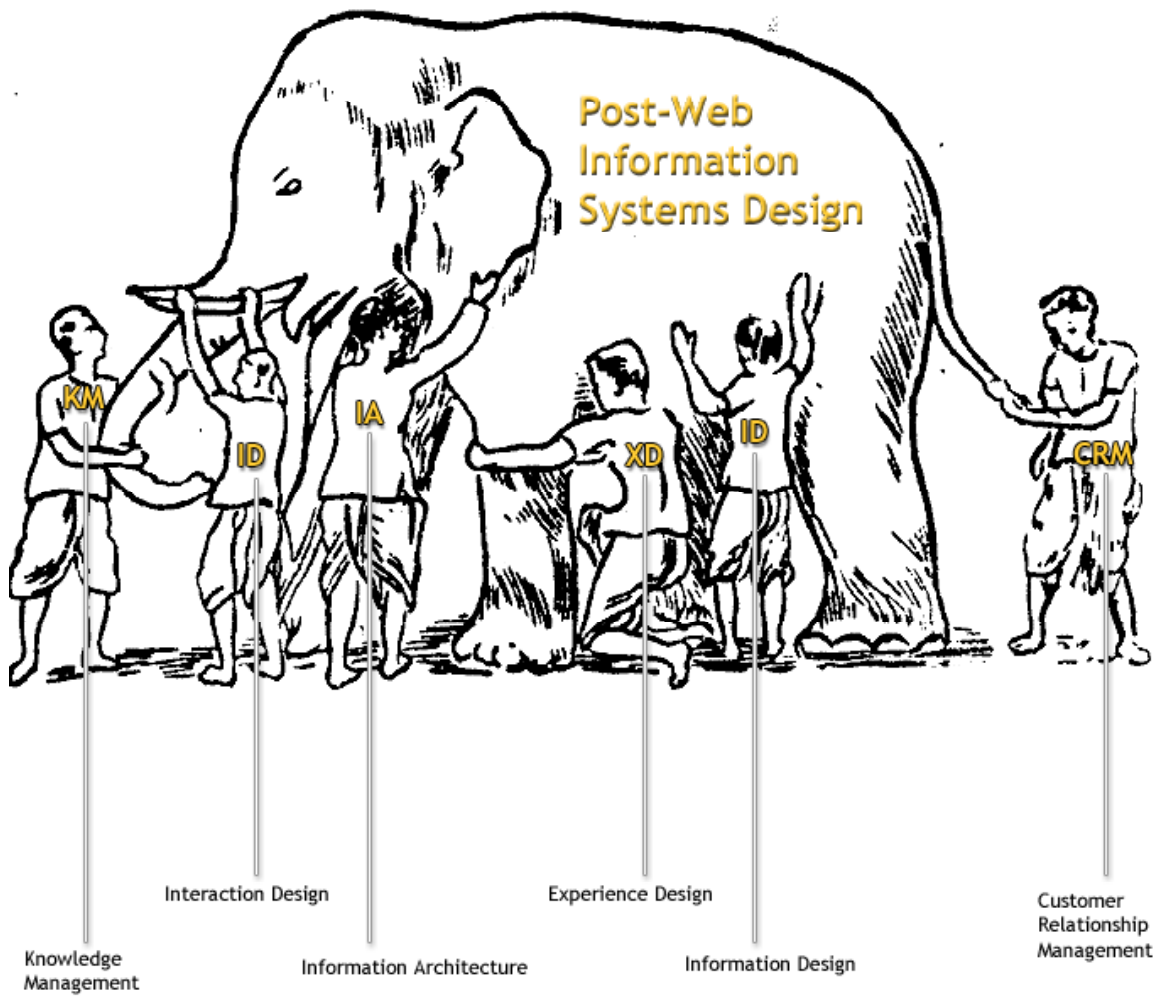
Forest of thoughts:

Boris Müller for "Die Zeit" "The Forest of Thoughts was a constantly changing and self-developing art-space - a »living exhibition« - on the internet."

http://www.esono.com/boris/projects/forest/
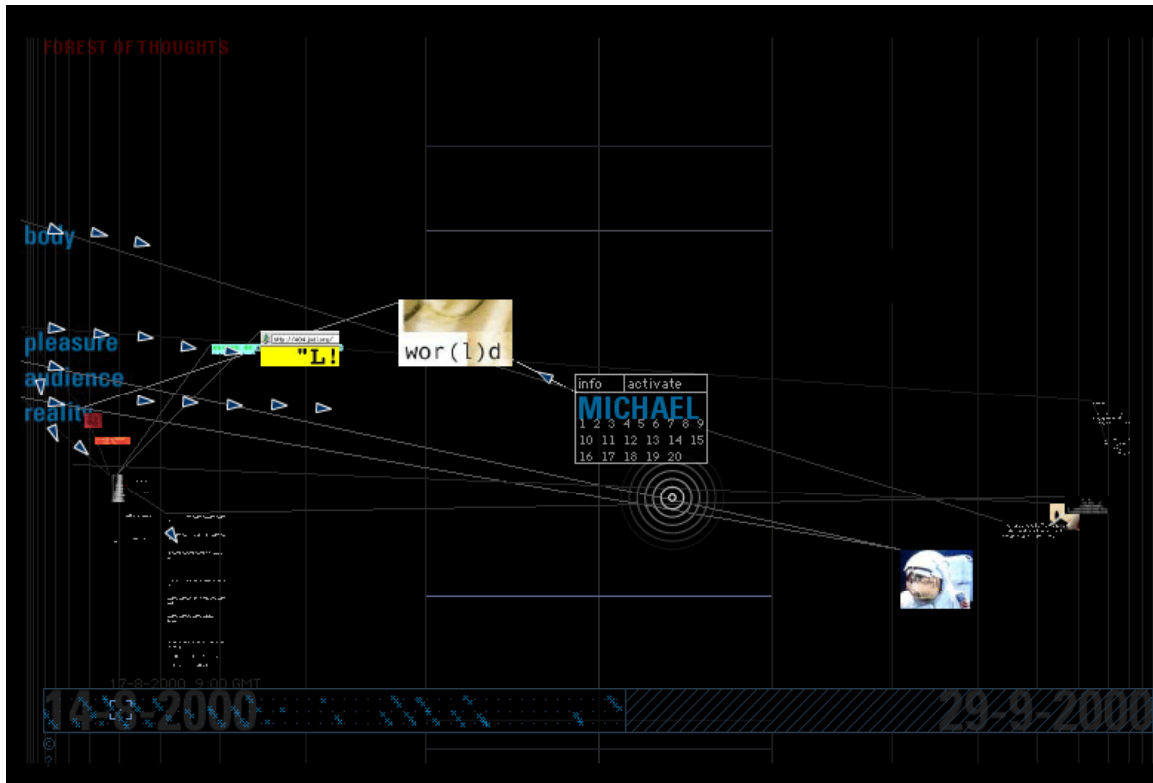
Ambulator by Boris Müller

http://www.esono.com/boris/projects/ambulator/
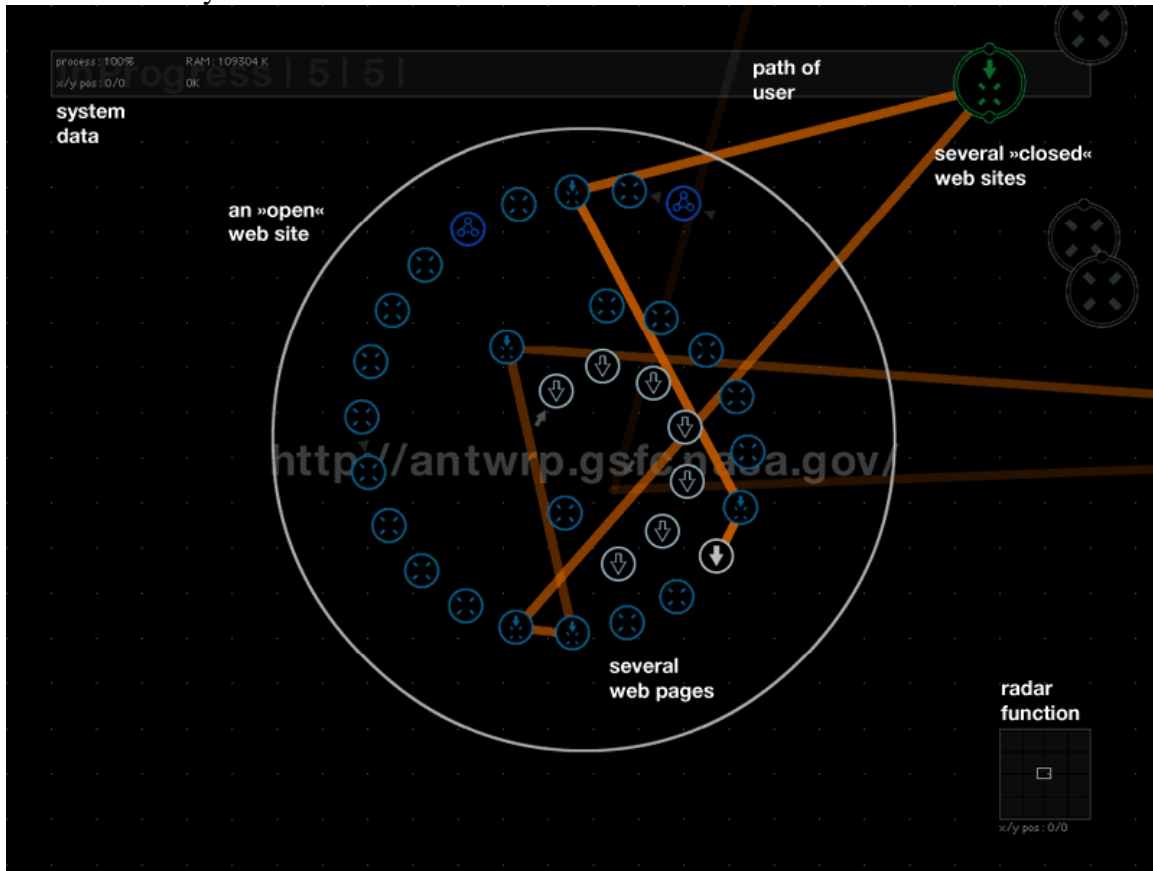
"Semantic Map" by Boris Müller
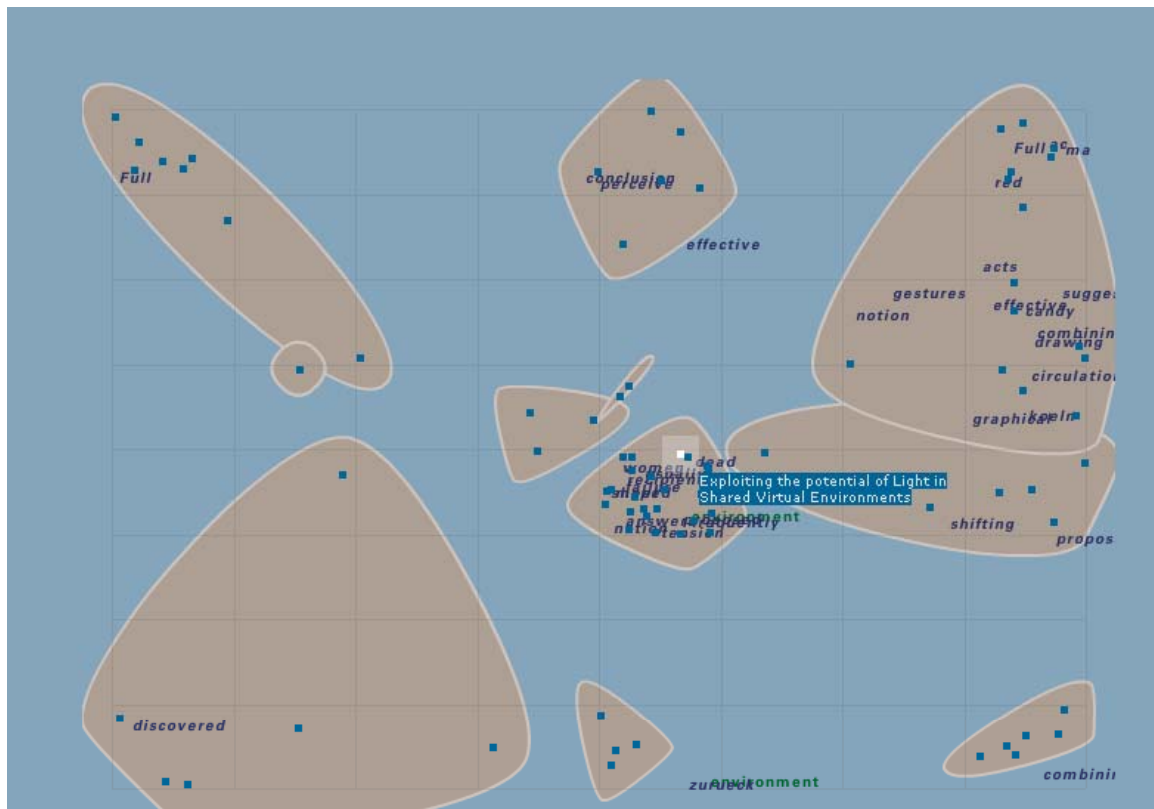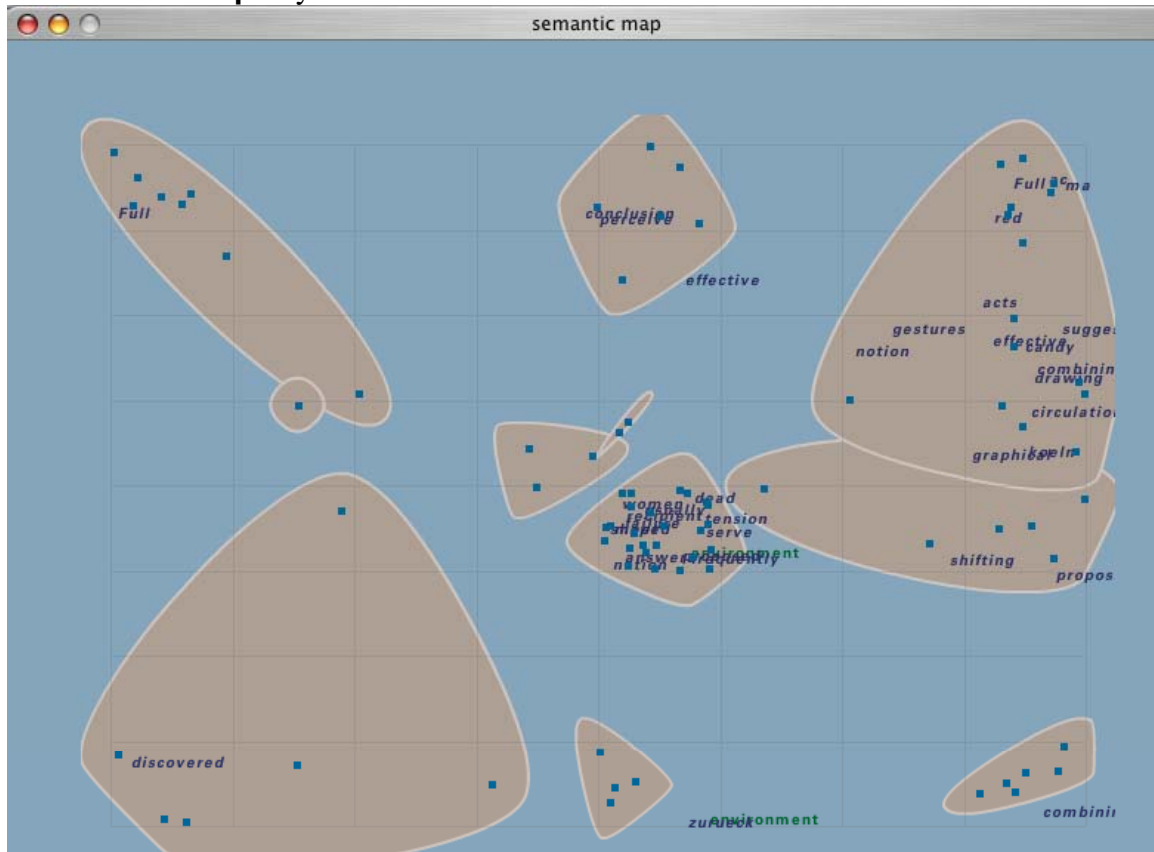
Different view of "Semantic Map"

	'96	'97	'98	'99	'00	'01	'02	'03

Media Art Education — □ Comparative Media Studies — □ Noise R

Understanding Mixed Reality — □ Balancing Individ □ Imagine Space Fused □ Public Narcissism / Consequence, and Knowledge :

Networked Living — □ nyc thought pictur

netzspannung.org — □ netzspannung.org

Performative Perception — □ Interdisciplinary Workshops between media and theatre — □ interactiv art for zen

The Information Society Landscape — □ Increasing the Television Experience — □ Augmented Reality for Visitors of Cultural Heritage Sites

Tools and Strategies for Intermedia Production — □ Design Goals for NetWorld

Project archive by Boris Müller

View 1: overview

Project view:

"Phase30.com" is the name and the programme for a business idea: If being 30 years old is a turning point in life and memories of the past are about to be transferred into the future, how can this process be supported? The answer is a coaching offer on the website: www.phase30.com.

Daniela Koza
Title: Mythos 30
Media: Poster, Catalogue, Web
Teacher: Prof. Victor Malsy
College: FH Düsseldorf [Düsseldorf Germany]
Year: 5th Year

Los Ang

Düsseldorf

"Giant Octopus" menu by Joshua Davies

latest news
portfolio
company
contact
audio on

insert description here.

| insert thumbnail | insert thumbnail | insert thumbnail | insert thumbnail |
| insert thumbnail | insert thumbnail | insert thumbnail | insert thumbnail |

project # 01
project # 02
project # 03
project # 04
project # 05
project # 06
project # 07
project # 08
project # 09
Page: 1 2 3

latest news   projects (with page tiling)
portfolio   projects (with sub projects)
company   video
contact
audio on

http://www.joshuadavis.com/pound.html

Pressstube sketchbook
Overview + menu
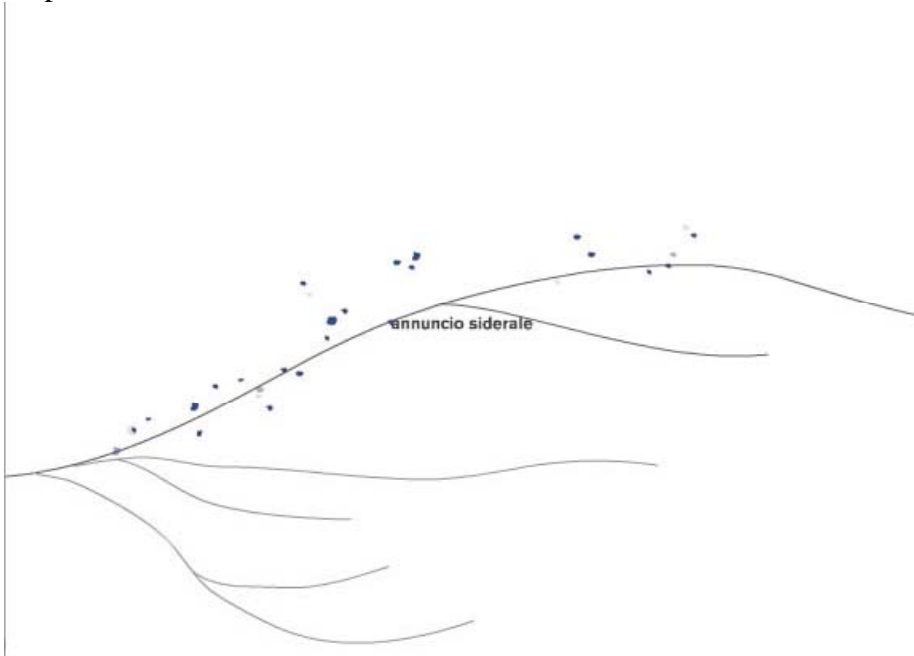
1---Efudex
2---Plendil
3---Felbatol
4---Gonal-F
5---Polypred
6---Floxin-Otic
7---Propulsid
8---Mintezol
9---Nebupent
10---Liquabid
11---Enter PT

http://www.presstube.com/chapter/

Saggio tree navigation portfolio
Step 1:

annuncio siderale

MARISA SAGGIO

Step 2:
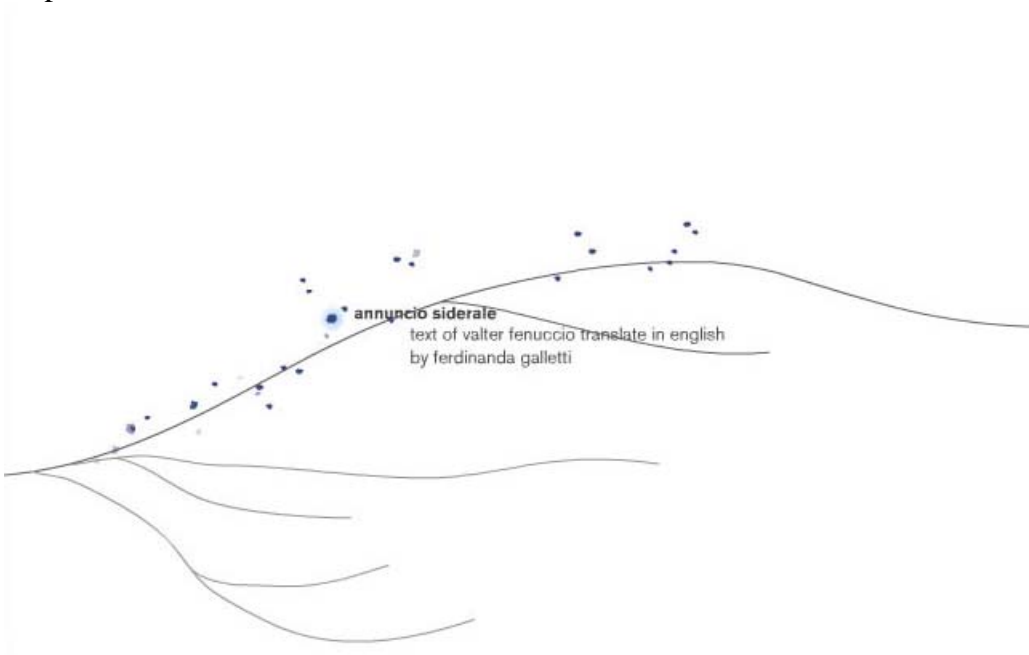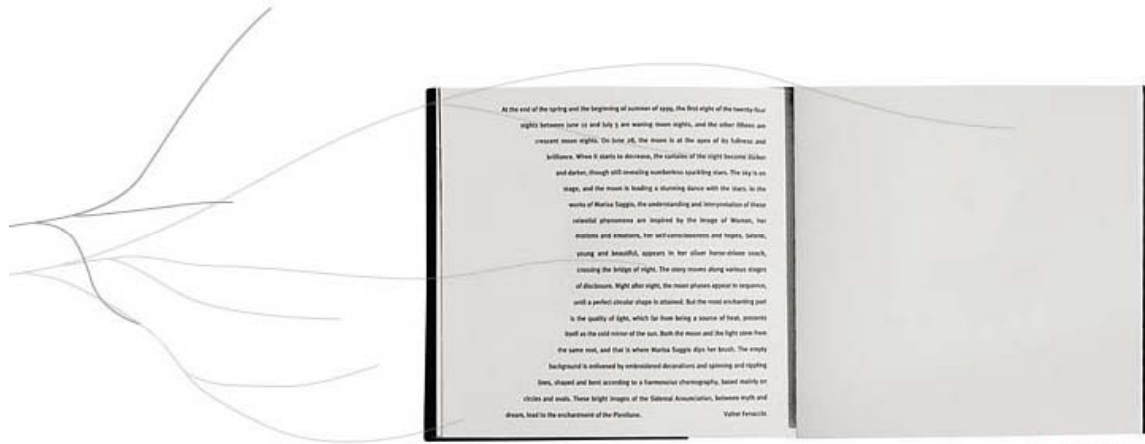
annuncio siderale
text of valter fenuccio translate in english
by ferdinanda galletti

MARISA SAGGIO

Step 3:

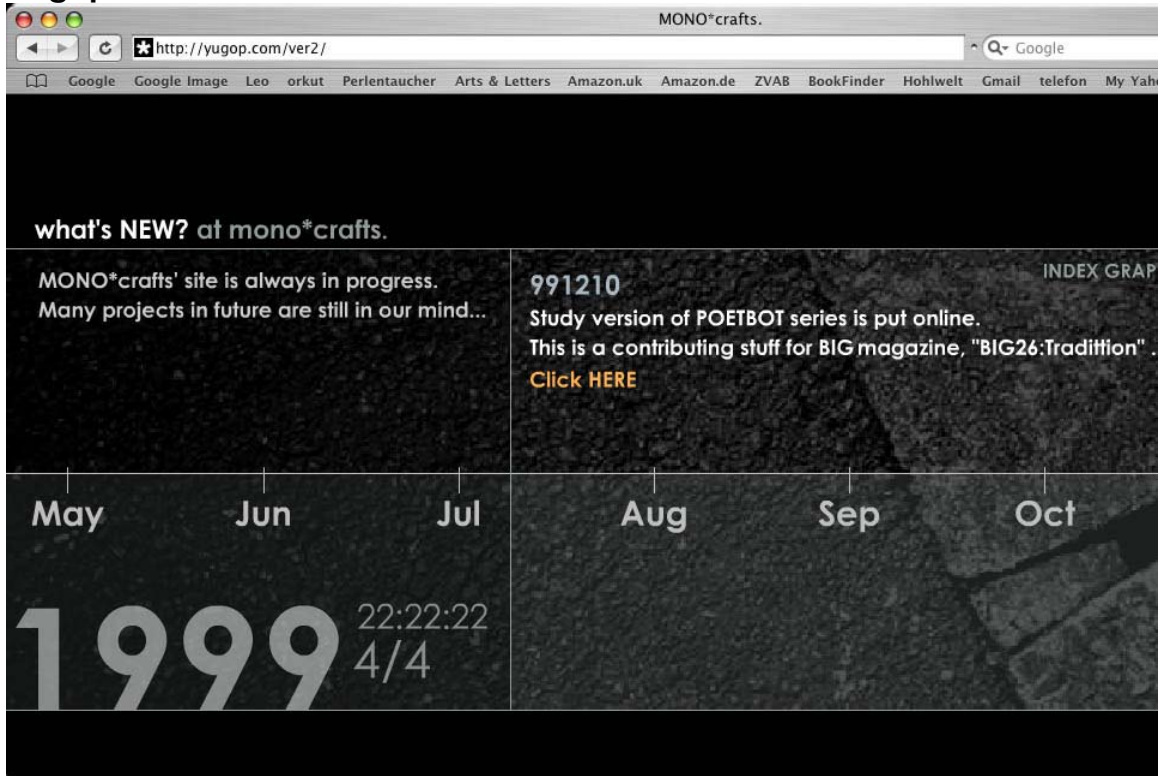

Step 4:

http://www.posttool.com/saggio/site/saggio.html

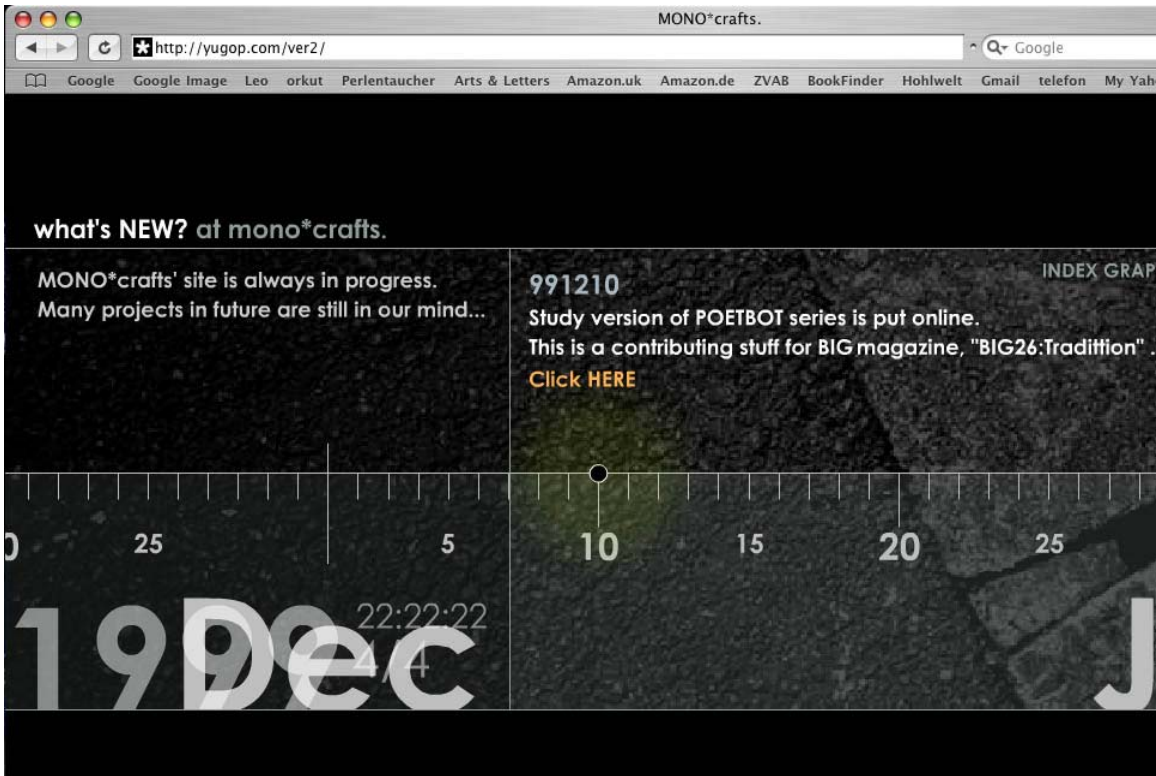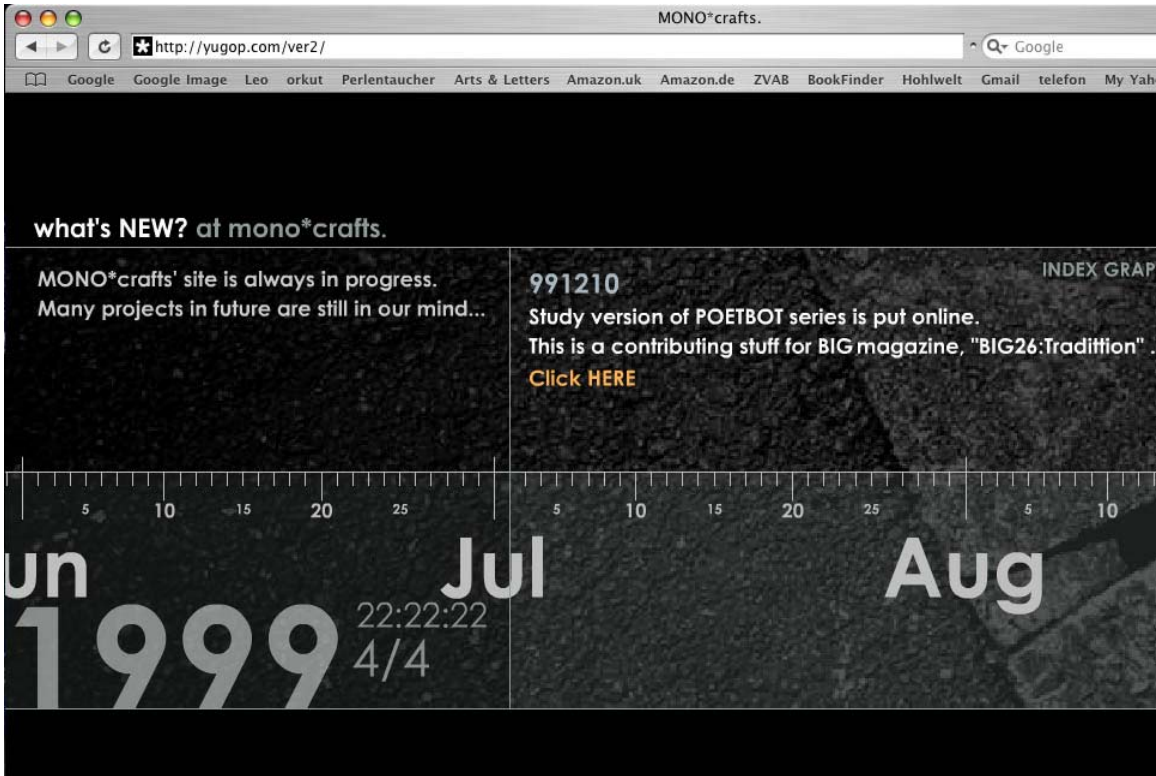**Yugop** timeline zoom
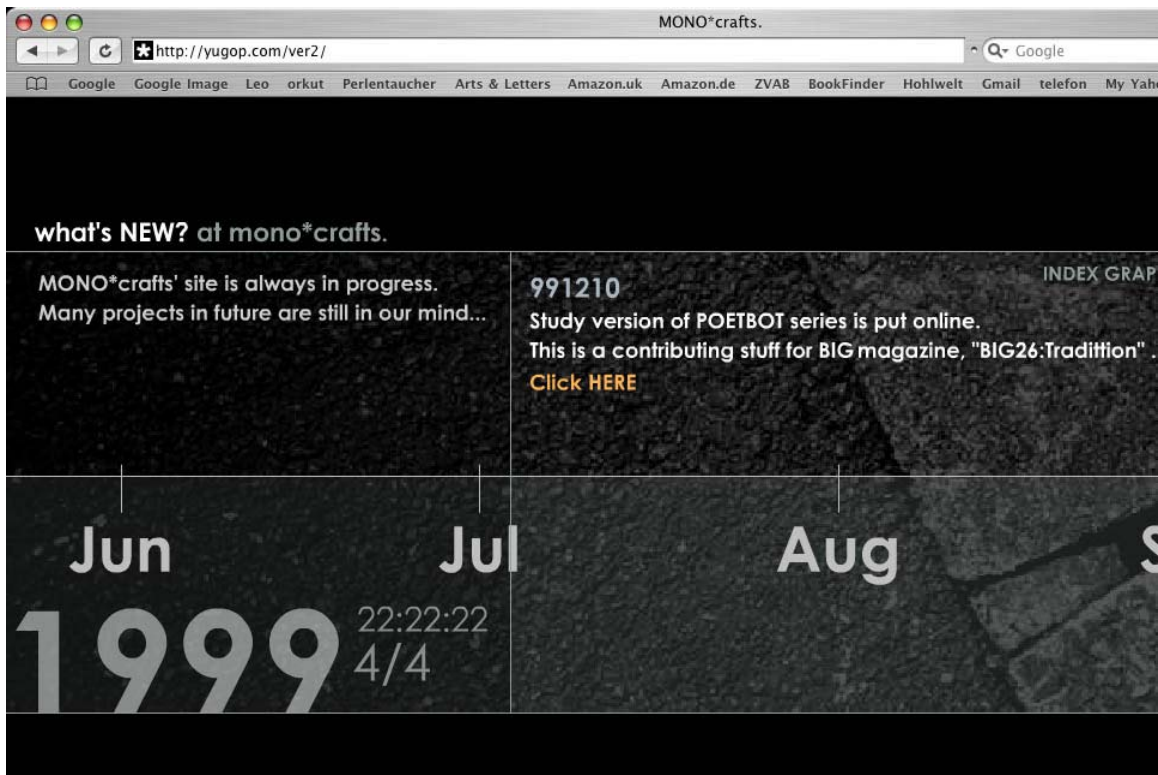
http://yugop.com/ver2/

Appendix

A: Resources and Prototypes

Woolman, Matt (2002), Digital Information Graphics, Thames & Hudson

Mspaces, Zzstructures, mspaces,
http://www.dgp.utoronto.ca/~mjmcguff/research/

Links from Gillian:
http://www.i3net.org/ outcomes in the book: http://www.iisbook.com/pages/images.html
http://web.media.mit.edu/~federico/living-memory/english/index.html

File Systems overview:
http://courses.washington.edu/hypertxt/cgi-bin/12.228.185.206/html/maps/filedirec.html
http://courses.washington.edu/hypertxt/cgi-bin/12.228.185.206/html/tablesall.html