Exploratory Search Interfaces to Support Image Discovery

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Founding Director (1983-2000), Human-Computer Interaction Lab
Professor, Department of Computer Science
Member, Institutes for Advanced Computer Studies &
Systems Research

Interdisciplinary research community

- Computer Science & Psychology
- Information Studies & Education

(www.cs.umd.edu/hcil)

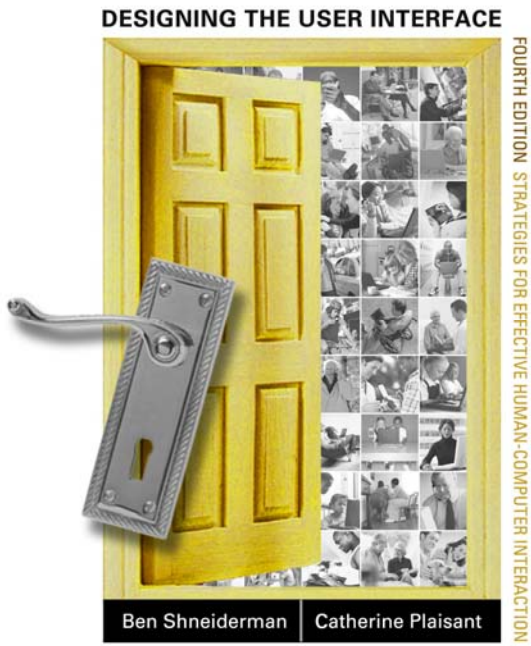
Scientific Approach (~~beyond user friendly~~)

- Specify users and tasks
- Predict and measure
  - time to learn
  - speed of performance
  - rate of human errors
  - human retention over time
- Assess subjective satisfaction

  (Questionnaire for User Interface Satisfaction)
- Accommodate individual differences
- Consider social, organizational & cultural context

Design Issues

- Input devices & strategies
  - Keyboards, pointing devices, voice
  - Direct manipulation
  - Menus, forms, commands
- Output devices & formats
  - Screens, windows, color, sound
  - Text, tables, graphics
  - Instructions, messages, help
- Collaboration & communities
- Manuals, tutorials, training



www.awl.com/DTUI

U.S. Library of Congress

American Memory

Historical Collections for the National Digital Library

- Scholars, Journalists, Citizens
- Teachers, Students

Library of Congress

American Memory

Browse & Select Collections

Search

Quick
Enter phrases below

Search All Collections

Search Selected Collections

Enhanced

Information

Information for Life-long Learners

Special Presentations

New Arrivals

L I B R A R Y O F C O N G R E S S

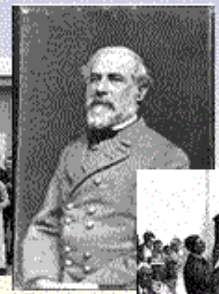
American Memory Introduction

Text-only version
ShockWave Version
[Prototype Note]

Historical Collections for the National Digital Library

Continental Congress

Folklore



Civil War Photos

Nation's Forum

Coolidge Consumerism

African American Pamphlets

Collection Samples

American Memory is the Library of Congress offering of primary-source and archival collections relating to American culture and history. These collections are the Library of Congress's key contribution to the national digital library. Most of these collections have been drawn from the holdings of the Library's special collections divisions. Each collection is accompanied by introductory material, users' guides, and bibliographies for further research. Only a small portion of the huge collections of the Library of Congress is digitized. The Digital Collections mainly include historical and uncopyrighted or out-of-copyright materials. It is a constantly growing collection that contains both primary materials and secondary materials (e.g. indexes, finding aids).

The available services are listed on the left side of the screen. We recommend that you browse and select collections of interest. The Information Desk provides special tours and answers frequently asked questions. A particular effort has been made to provide information for educators and life-long learners (the "learning pages") to help use the collections.

Sample Special Presentations

- The Progress of a People: Special Presentation from the African-American Pamphlets fromthe Daniel A. P. Murray Collection, 1880-1920
- Become a Historical Detective

Library of Congress

American Memory

Browse & Select Collections

Search

Quick

Enter phrases below

Search All Collections

Search Selected Collections

Enhanced

Information

Information for Life-long Learners

Special Presentations

New Arrivals

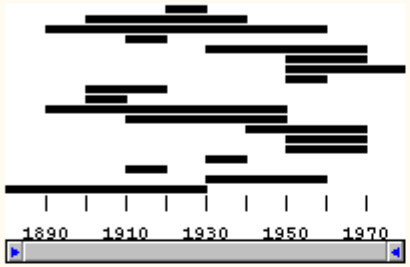
LIBRARY OF CONGRESS AMERICAN MEMORY

Browse & Select Collections

[Prototype Note]

Collection Overview

Time



1880 **1980**

Collection Filters

Topic

- Regional
- Government and Law
- Language and Literature
- Fine and Decorative Arts
- Business and Economics
- History
- Health and Medecine
- Technology and Applied Sciences

All

Format

- Movie
- Sound
- Map
- Photograph
- Manuscript

All

Place

- All World
- Canada
- South Emphasis
- Northeast Emphasis
- Mexico
- Midwest Emphasis
- Caribbean
- France

All

Collection List

Order Collections by: Title | Time | Topic | Format | Place

 # Collections: 19 # Visible : 19 # Selected : 19

To browse a Collection, click on its title

Checked Collections are selected for Quick and Enhanced searches

Select All | Clear All

A - F

- [x] Ara Shirinian collection (Fake)
- [x] Bill Grant Architectural collection (Fake)
- [x] Bruns Boating Collection (Fake)
- [x] Coolidge-Consumerism Collection
- [x] Earl Jones collection (Fake)
- [x] Emma Johnson clothing collection (Fake)
- [x] Ford Automobile History Collection (Fake)

G - L

- [x] Gary Jones - Railroad safety Collection (Fake)
- [x] Jones music collection (Fake)
- [x] Life History Manuscripts from the Folklore Project, WPA Federal Writers' Project, 1936-1940

M - R

Library of Congress

American Memory

Browse & Select Collections

Search

Quick

Enter phrases below

Search All Collections

Search Selected Collections

Enhanced

Information

Information for Life-long Learners

Special Presentations

New Arrivals

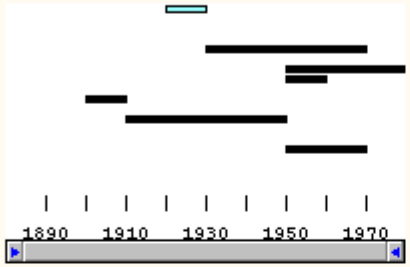
LIBRARY OF CONGRESS AMERICAN MEMORY

Browse & Select Collections

[Prototype Note]

Collection Overview

Time



1880 **1980**

Collection Filters

Topic

- Regional
- Government and Law
- Language and Literature
- Fine and Decorative Arts
- Business and Economics
- History
- Health and Medecine
- Technology and Applied Sciences

All

Format

- Movie
- Sound
- Map
- Photograph
- Manuscript

All

Place

- Northeast Emphasis
- Mexico
- Midwest Emphasis
- Caribbean
- France
- Northest Emphasis
- West Emphasis
- All US

All

Collection List

Order Collections by: Title | Time | Topic | Format | Place

 # Collections: 19 # Visible : 7 # Selected : 12

To browse a Collection, click on its title

Checked Collections are selected for Quick and Enhanced searches

Select All | Clear All

A - F

- [ ] Ara Shirinian collection (Fake)
- [x] Coolidge-Consumerism Collection
- [ ] Earl Jones collection (Fake)
- [ ] Ford Automobile History Collection (Fake)

G - L

- [ ] Gary Jones - Railroad safety Collection (Fake)

M - R

- [ ] Marchionini-History of Browsing Collection (Fake)
- [ ] Plaisant Publishing Company collection (Fake)

S - Z

The Coolidge-Consumerism collection assembles a wide array of LC primary-source materials from the 1920s, some 17,000 pages reflecting the propserity of the Coolidge years, the nation's transition to a mass-consumer economy, and the role of government in this transition. The selective thematic focus and range of formats in this collection represent an effort to assemble topical bodies of material as opposed to reproducing preestablished collection entities.

LIBRARY OF CONGRESS AMERICAN MEMORY COOLIDGE COLLECTION

Search Results for: **automobile** Items 1 through 10 of 25

Next | Create Personal Collection with selected items

5 items are currently selected.

Netscape - [Frameset 1]

File Edit View Go Bookmarks Options Directory Window Help

Back Forward Home Edit Reload Images Open Print Find Stop

WebTOC

Text Images Audio Other

0 >=50 Shadow shows number of items

Size (bytes) 1K 10K 100K 1M 10M 100M

Titles&Lines Size Bars Contract Search:

- American Variety Stage
  - /ammem/ammemhome.html
  - Houdini
  - Theater Playbills and Programs
  - Sound Recordings (Coming Soon)
  - vsimage.html
  - Motion Pictures
  - English Playscripts
    - Acknowledgments
  - Yiddish Playscripts
  - Search
  - Subject
  - Author
  - The American Variety Stage
  - Acknowledgments
  - Editor's Note
  - Images
  - Video
  - How to Order Photographic Reproductions
  - Copyright and Other Restrictions
  - Search All Collections
  - Browse All Collections

AMERICAN MEMORY LIBRARY of CONGRESS

American Variety Stage:

Vaudeville and Popular Entertainment

1870-1920

Houdini

Theater Playbills and Programs

Sound Recordings

Motion Pictures

English Playscripts

Yiddish Playscripts

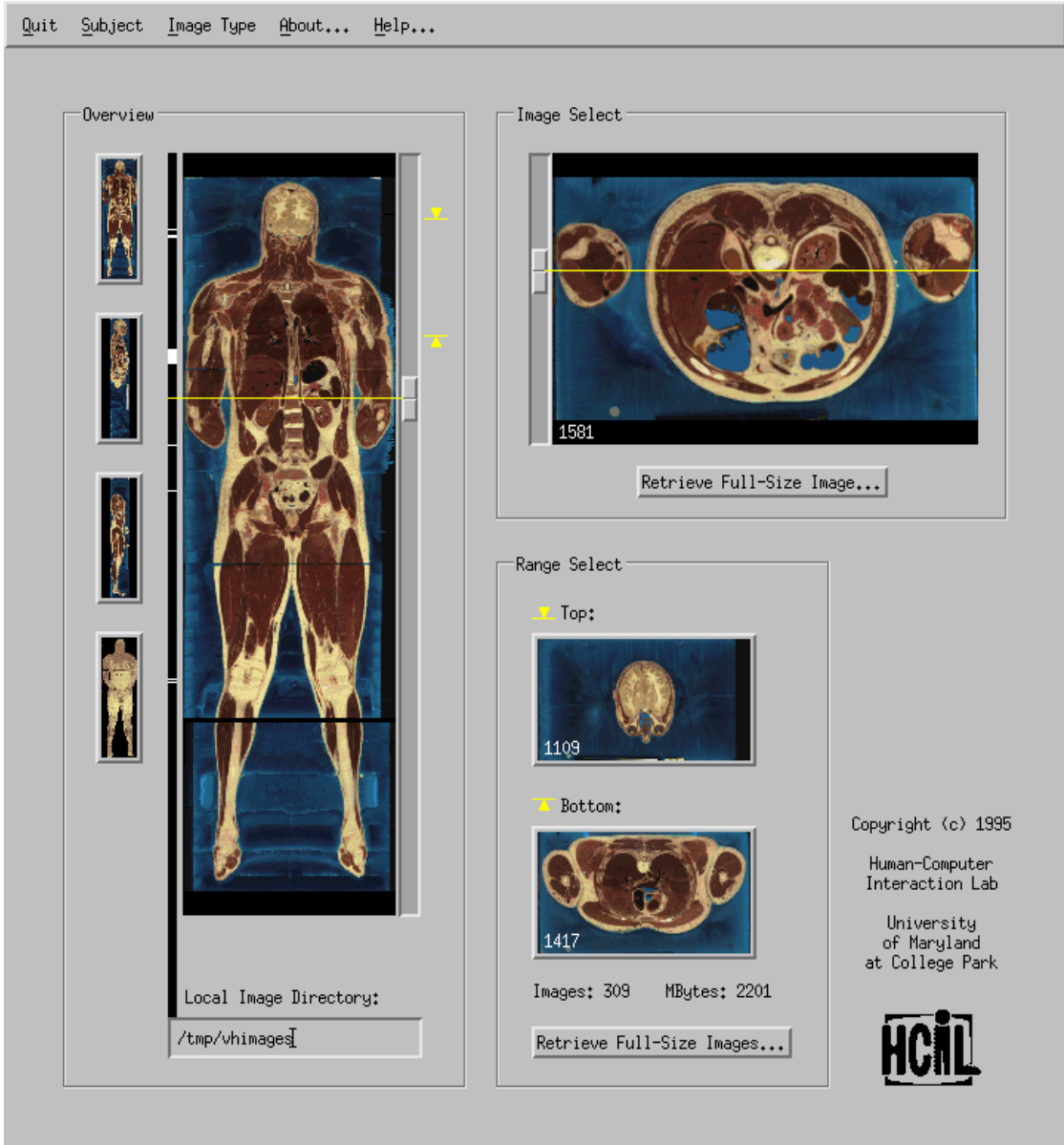
Selected Materials from the Library of Congress

Search by Keyword | Browse the Subject or Author Index

Document: Done

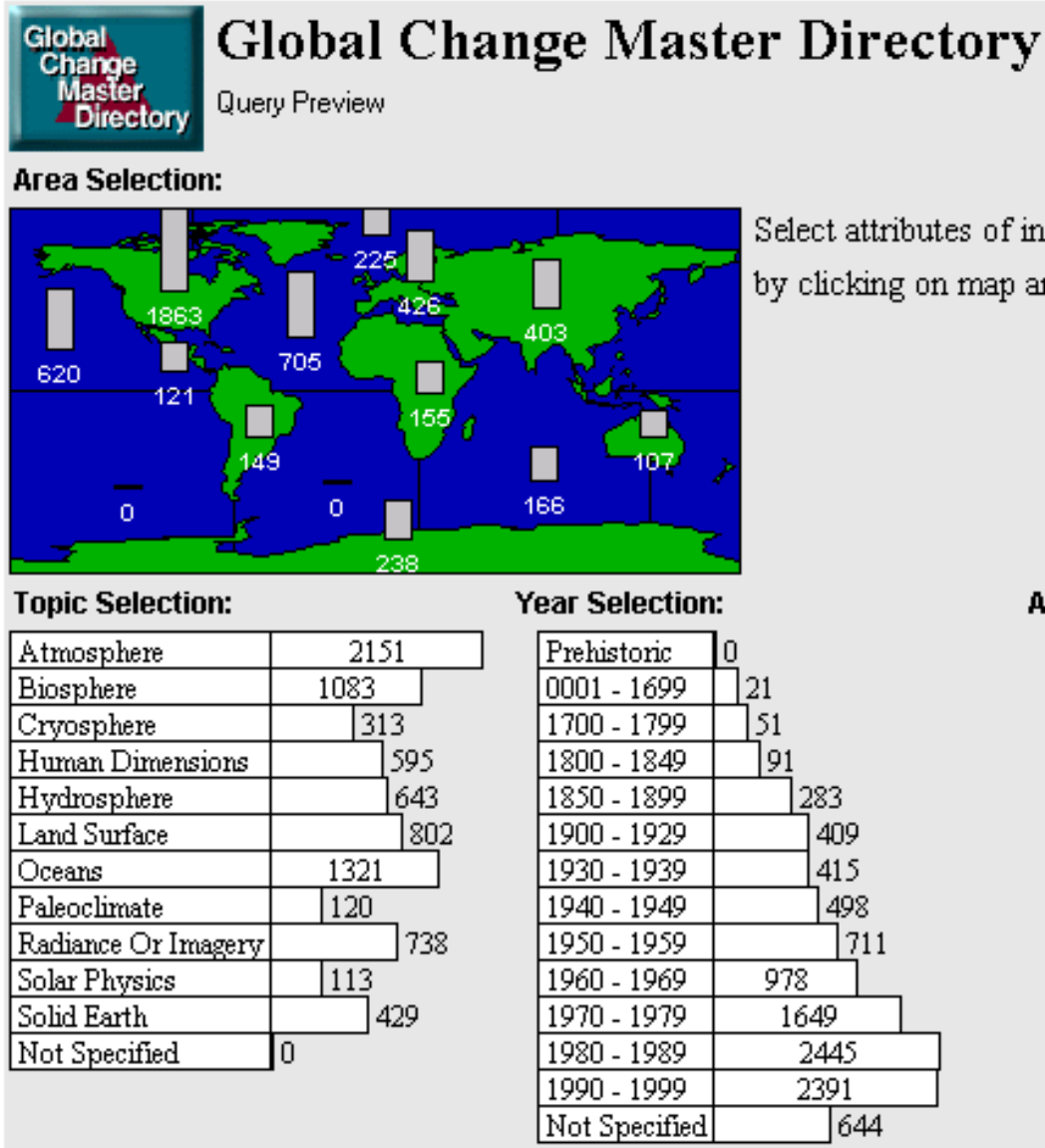
Visible Human Explorer (NLM)

- Doctors
- Surgeons
- Researchers
- Students



NASA Environmental Data

- Scientists
- Farmers
- Land planners
- Students



Bureau of the Census

- Economists, Policy makers, Journalists
- Teachers, Students

American FactFinder™

NSF Digital Government Initiative

Census,

NCHS,

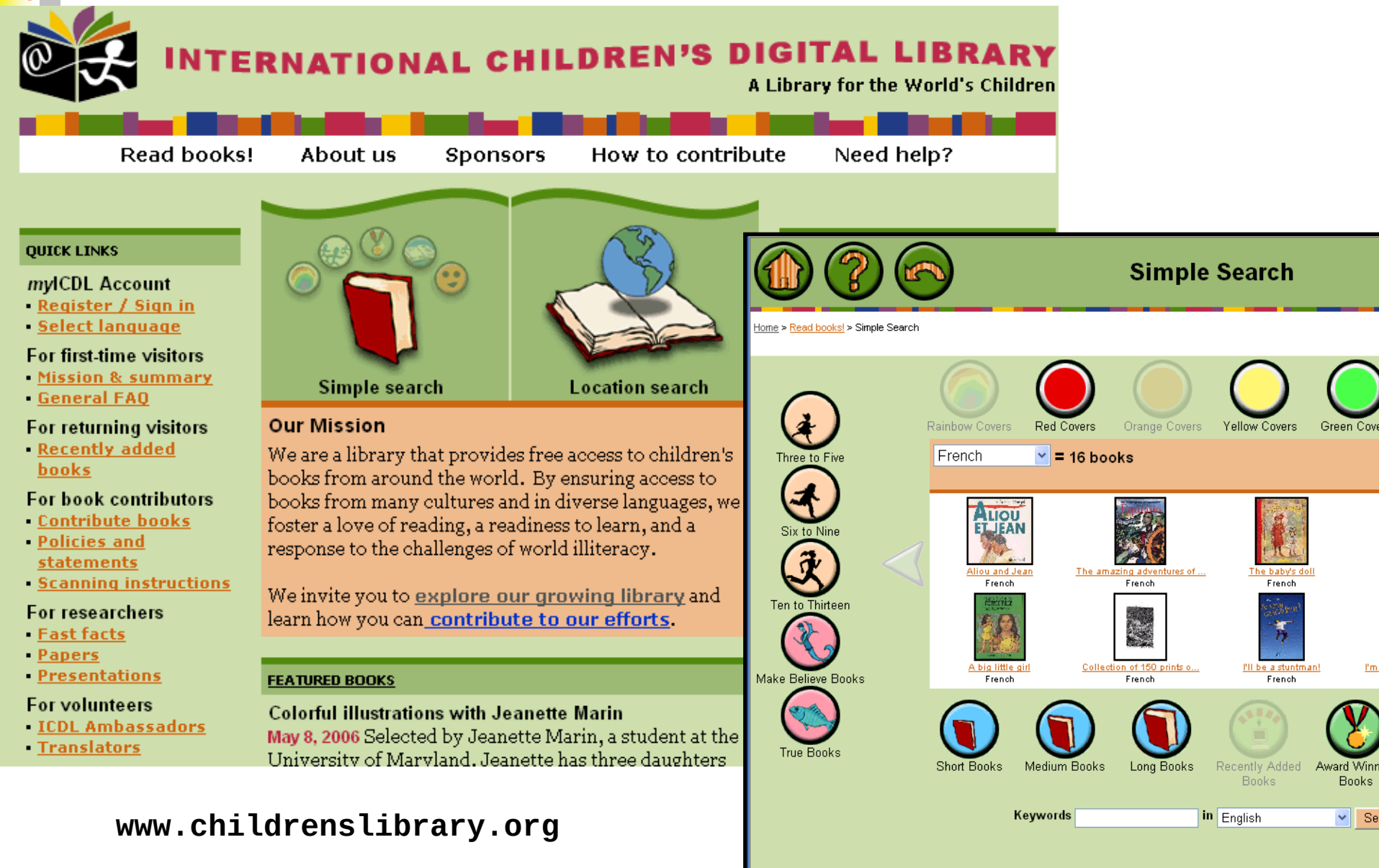
BLS, EIA, NASS, SSA

- Find what you need
- Understand what you Find

www.ils.unc.edu/govstat/

FEDSTATS

International Children’s Digital Library



www.childrenslibrary.org

Piccolo: Toolkit for 2D zoomable objects

Structured canvas of graphical objects in a hierarchical scenegraph

- Zooming animation
- Cameras, layers

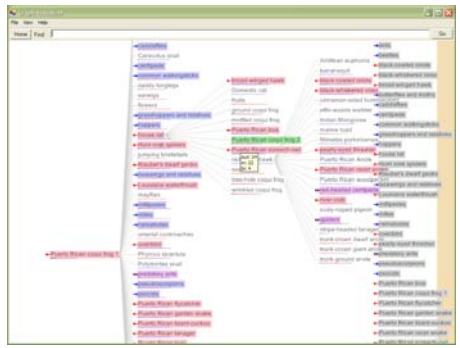
Open, Extensible & Efficient

Java, C#, PocketPC versions

www.cs.umd.edu/hcil/piccolo

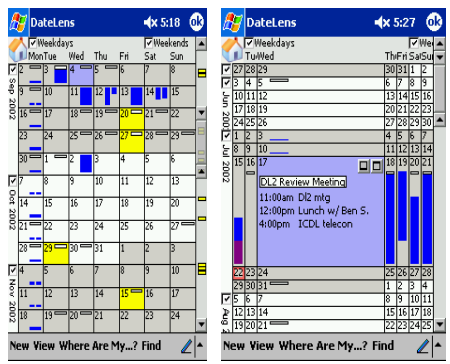
AppLens & Launch Tile

UMD, Microsoft Research



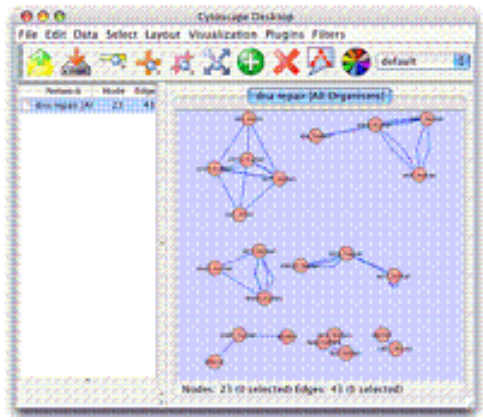
TreePlus

UMD



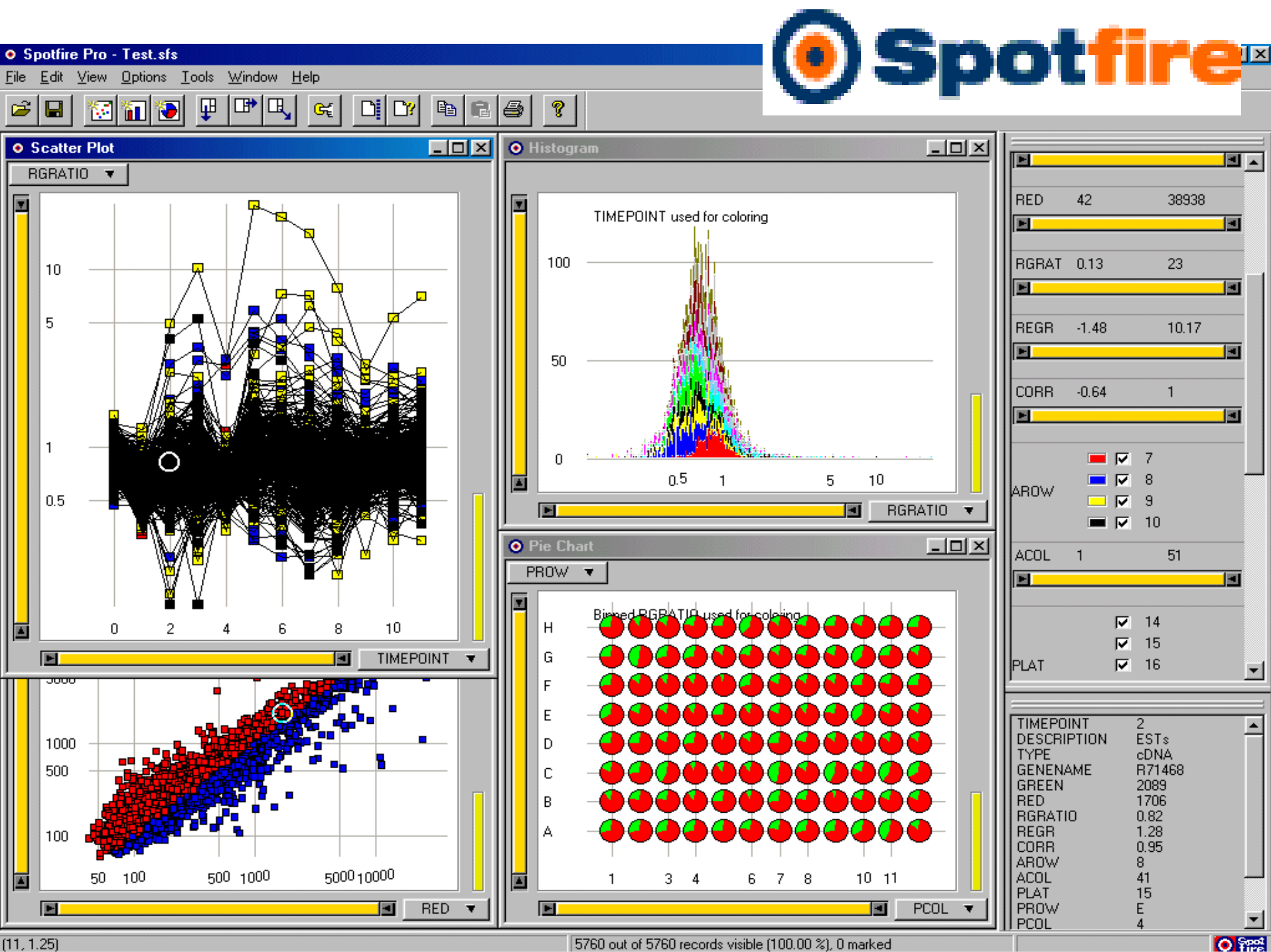
DateLens

Windsor Interfaces, Inc.

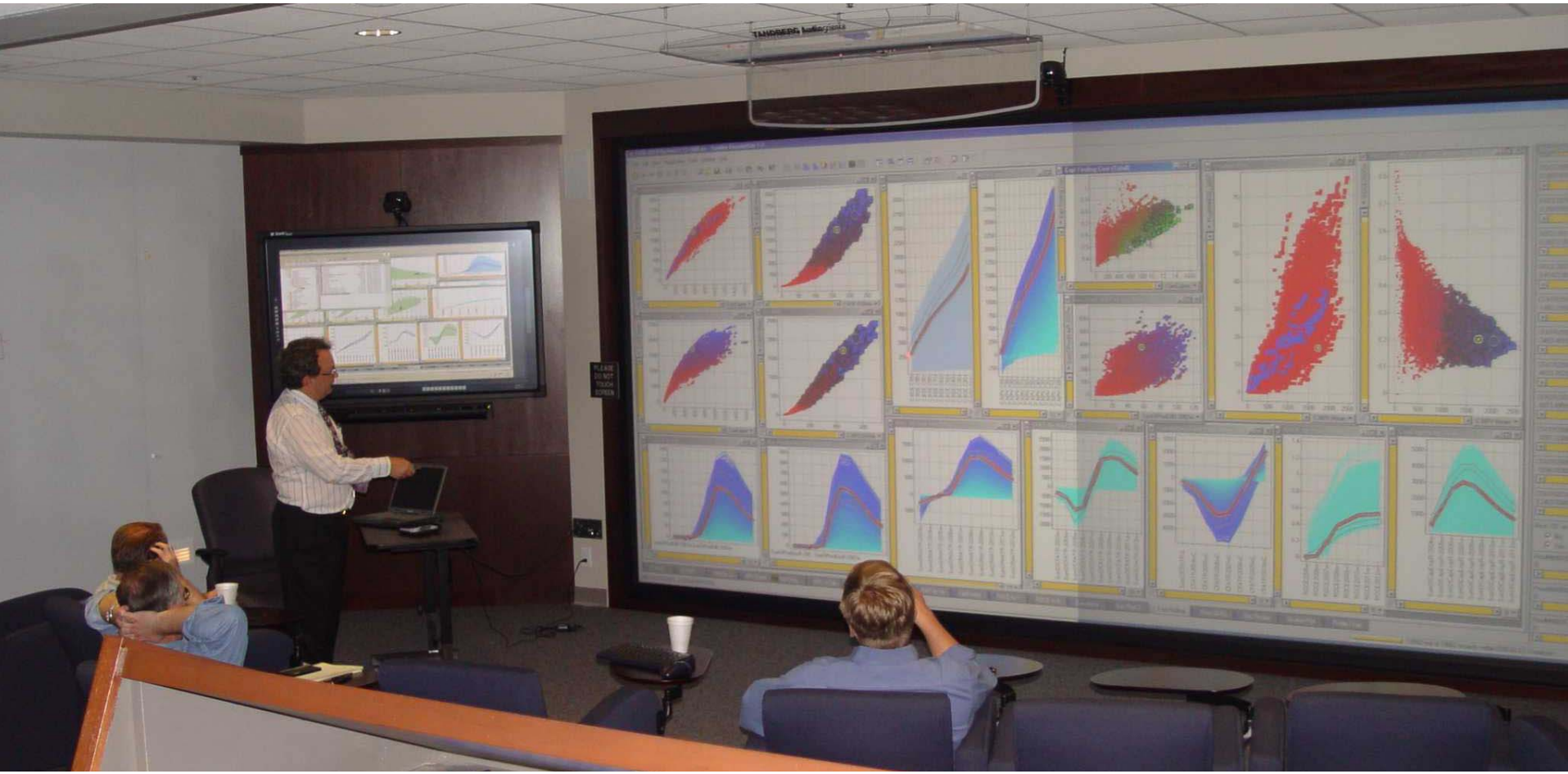


Cytoscape

Institute for Systems Biology
Memorial Sloan-Kettering
Institut Pasteur UCSD


Spotfire
Spotfire Pro - Test.sfs
File Edit View Options Tools Window Help
Scatter Plot
RGRATIO
10
5
1
0.5
0 2 4 6 8 10
TIMEPOINT
1000
500
100
50 100 500 1000 5000 10000
RED
Histogram
TIMEPOINT used for coloring
100
50
0
0.5 1 5 10
RGRATIO
Pie Chart
PROW
Binned RGRATIO used for coloring
H G F E D C B A
1 3 4 6 7 8 10 11
PCOL
RED 42 38938
RGRAT 0.13 23
REGR -1.48 10.17
CORR -0.64 1
AROW 7 8 9 10
ACOL 1 51
PLAT 14 15 16
TIMEPOINT 2
DESCRIPTION ESTs
TYPE cDNA
GENENAME R71468
GREEN 2089
RED 1706
RGRATIO 0.82
REGR 1.28
CORR 0.95
AROW 8
ACOL 41
PLAT 15
PROW E
PCOL 4
(11, 1.25)
5760 out of 5760 records visible (100.00 %), 0 marked

Spotfire

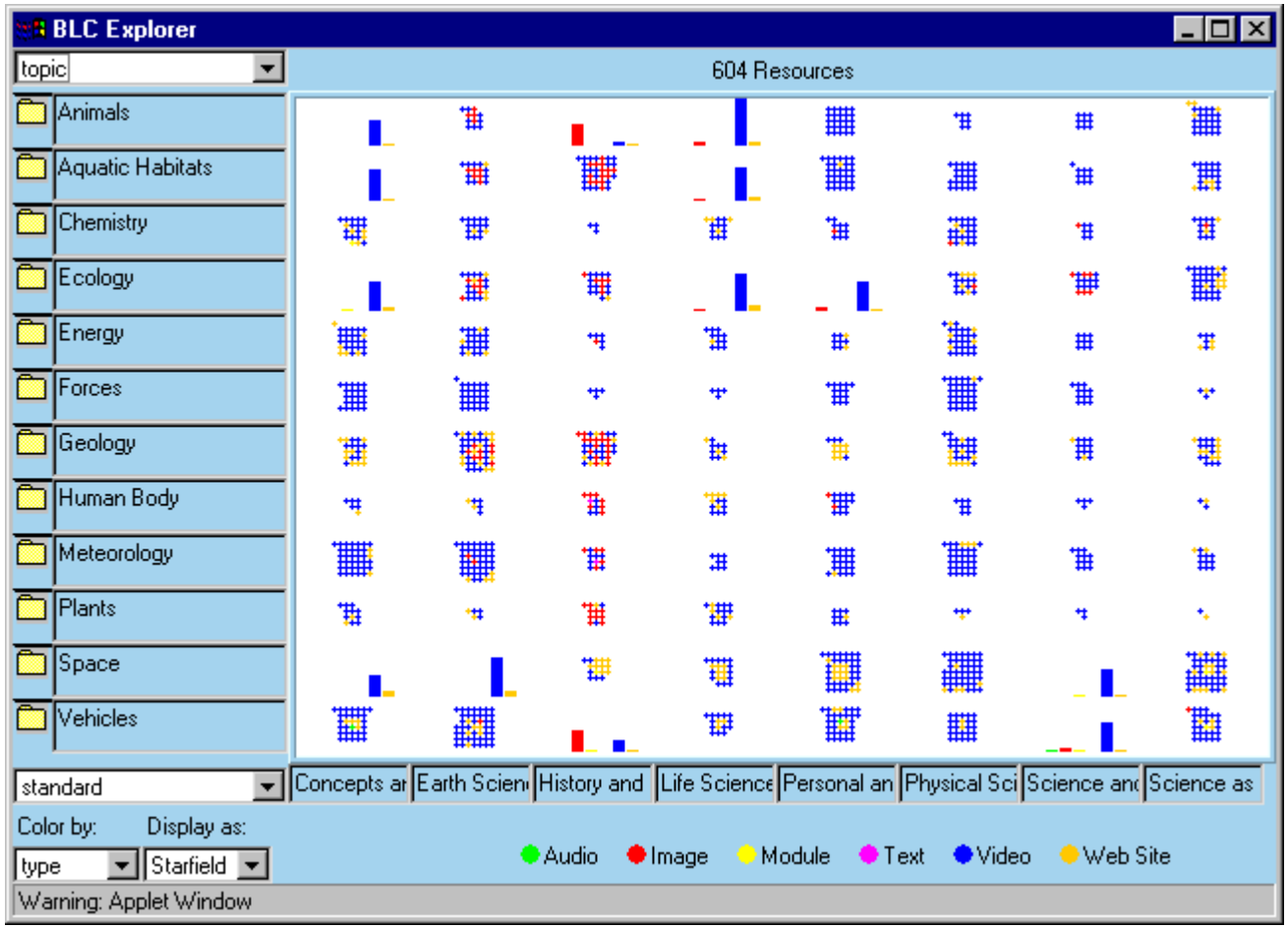


HCIL

Information Visualization: Mantra

- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand
- Overview, zoom & filter, details-on-demand

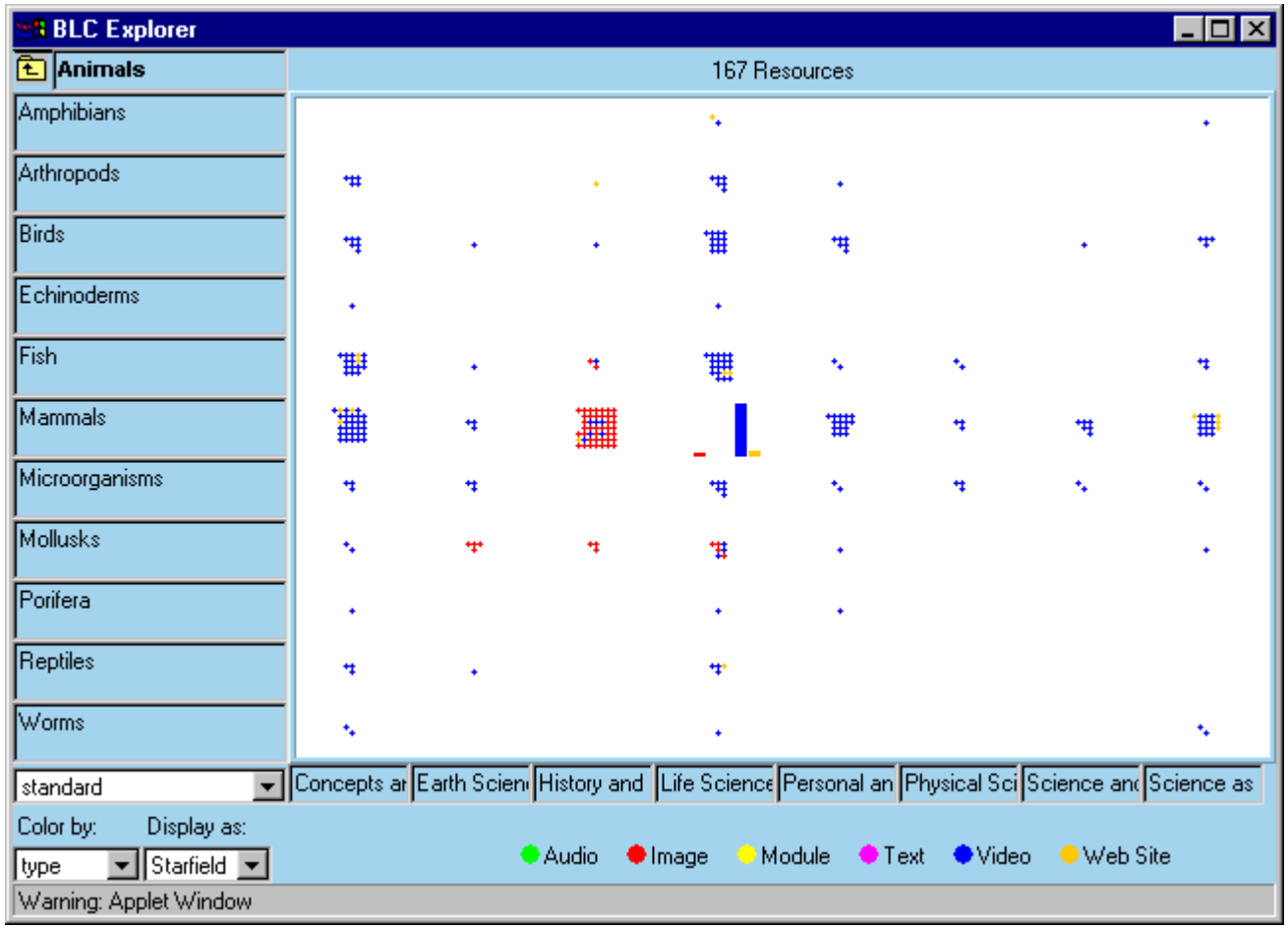
BLC Explorer: Dual Hierarchies



Graphical Interface for Digital Libraries

`www.cs.umd.edu/hcil/west-legal/gridl`

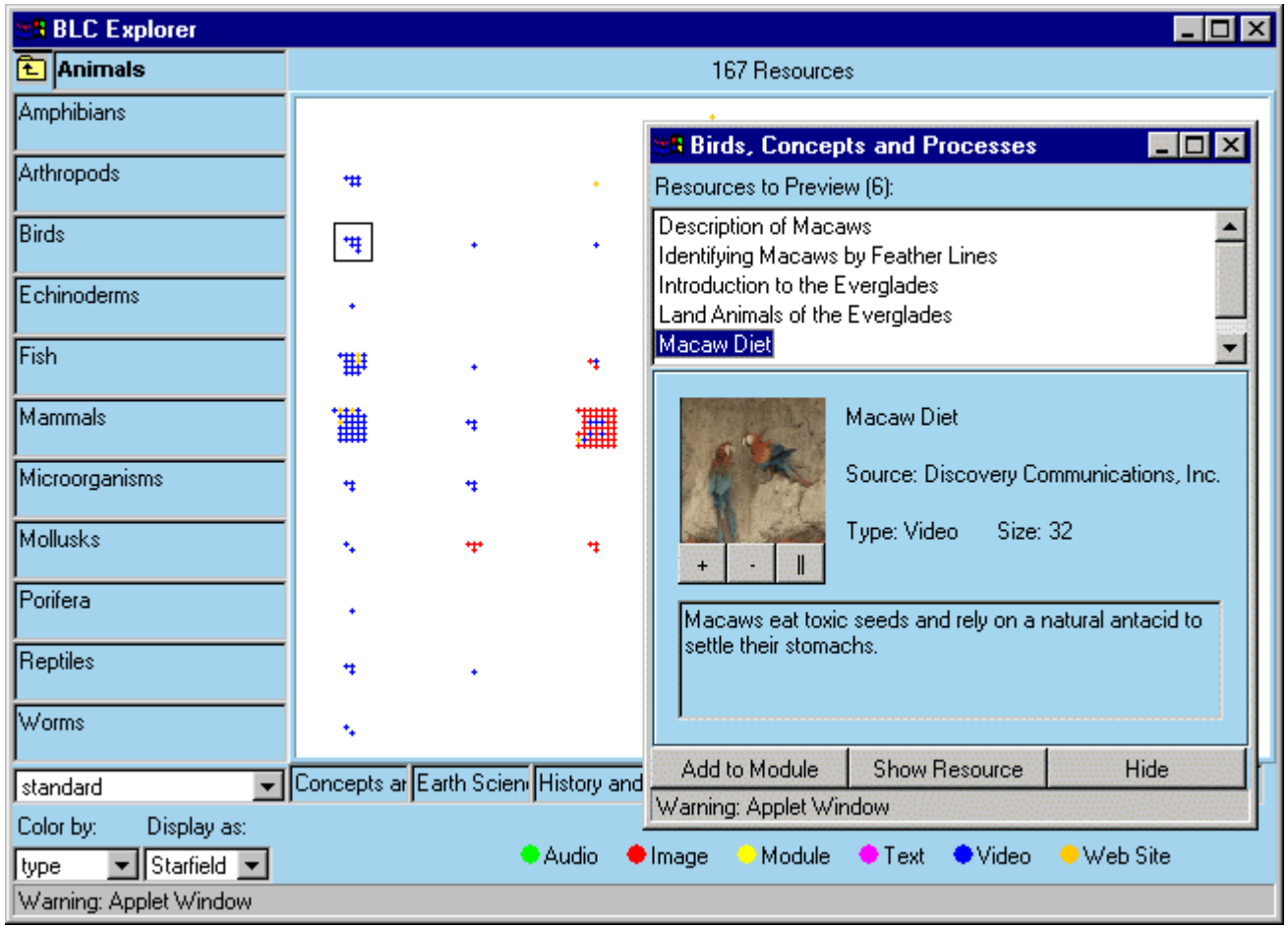
BLC Explorer: Dual Hierarchies - subtopic



Graphical Interface for Digital Libraries

`www.cs.umd.edu/hcil/west-legal/gridl`

BLC Explorer: Dual Hierarchies - details



Graphical Interface for Digital Libraries

`www.cs.umd.edu/hcil/west-legal/gridl`

GRIDL

ACM Classification | (Y-Axis History) | 1522/1522 Items | HCIL

A. General Literature
B. Hardware
C. Computer Systems ...
D. Software
E. Data
F. Theory of Computat...
G. Mathematics of Co...
H. Information Systems
I. Computing Methodo...
J. Computer Applicati...
K. Computing Milieux

1990 1991 1992 1993 1994 1995 1996 1997 1998 1999

Copyright (C) 1999 Univ. of MD

X Variable: Year of Item | (X-Axis History)

Color By: Type | Book | Ph.D. Dissertation | Proceeding | Technic

68 Items

- 10th International Conference on Software Engineering
- Fifteenth Annual ACM Symposium on Principles of Progran
- USENIX Conference Proceedings -- C++
- OOPSLA 87 Conference Proceedings - Object-Oriented Progr
- OOPSLA 89 Conference Proceedings - Object-Oriented Progr
- Software Engineering - A Practitioner's Approach
- 5th International Conference on Software Engineering
- FTCS-27 : The Twenty-Seventh Annual International Sympo
- Twelfth Annual ACM Symposium on Principles of Programm
- Pascal
- Pascal User Manual and Report
- The Art of Computer Programming Fundamental Algorithms
- Applications Programming in C
- Operating Systems: Design and Implementation
- A Computer Science Tapestry: Exploring Programming and C
- Core JAVA , Volume I : Fundamentals

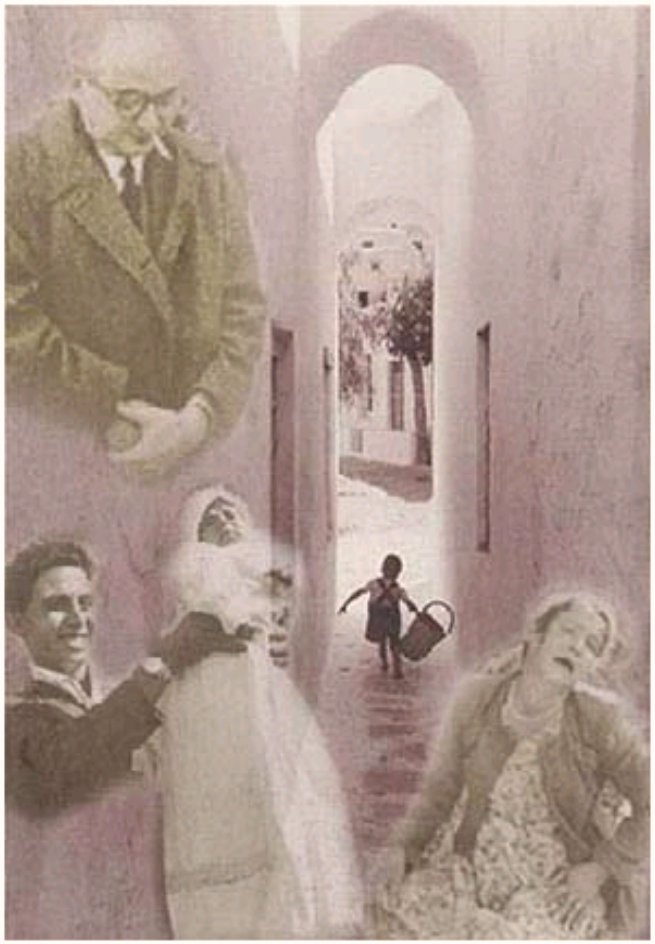
Control Number: av1490
Author: Knuth D E
Book Title: The Art of Computer Programming Fundamental Algorithms
Publisher: Addison-Wesley
Year of Item: 1997
Volume: v.1
ACM Classification: D. Software
ACM Classification1: D. Software//D.0 GENERAL
Type: Book

Hide

Advertencia: ventana de subprograma

Address http://www.icp.org/chim/chim2.html Go

icp CHIM Home



CHIM: The Photographs of David Seymour

On the occasion of the fortieth anniversary of Chim's untimely death, those who treasure his work have joined forces to produce an ambitious book, exhibit, and website.

To explore Chim's life and work, click on one of the years in the timeline at the top of the screen.

Visit the exhibition at the
International Center of Photography/Midtown
1133 Avenue of the Americas (at 43rd St.), New York City
September 13 - November 20, 1996
Exhibition Hours: Tuesday 11am - 8pm. Wednesday - Sunday 11am - 6pm

Photograph of Chim by Elliot Erwitt
© 1996 Elliott Erwitt

Chim

Chim was born David Szymin on November 20, 1911, in Warsaw, Poland, then a province of Czarist Russia. On becoming a photo-reporter in Paris in 1933, he signed his work "CHIM," a French phonetic abbreviation of his surname, distinctive in its use of capital letters and elegant in its brevity. Life began for David and his sister, Eileen, three years his senior, as the children of Regina and Benjamin Szymin, a respected publisher of Yiddish and Hebrew books. They enjoyed an excellent education in Jewish and secular subjects, with David attending the Jewish Gymnasium Ascolah.

Upon passing his baccalaureate David also went off to Germany, to Leipzig, to the

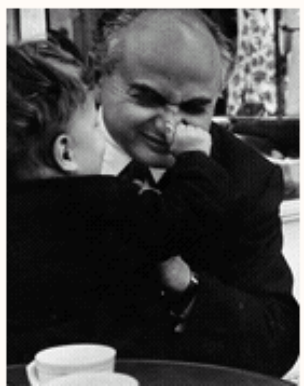
Poland, circa 1932. Photographer unknown.
©1996 from the Estate of David Seymour

Tereska, a child in a residence for disturbed children, grew up in a concentration camp. She drew a picture of home on the blackboard. Poland, 1948
©1996 from the Estate of David Seymour

More Pictures

UNICEF: Children of War

By 1948 fate dealt Chim a card that had "ace" written all over it. UNICEF (United Nations International Children's Emergency Fund), only recently formed, asked him to take photographs for a book depicting Europe's children in need. It was not a lucrative proposition, but a labor of love, for instead of paying the usual magazine rate of at least one hundred dollars a day, all UNICEF could muster was twenty-six dollars. The project would take twelve weeks, and Chim was to travel to Poland, Hungary, Austria, Italy, and Greece. The purpose was to show the work being done by UNICEF, providing some of Europe's thirteen million children with the barest minimum of necessities: powdered milk, a bowl of soup each day, a pair of shoes, and vaccination



Photograh by Elliott Erwtt.
©1996 Elliott Erwitt

Address http://www.icp.org/chim/chim2.html Go

Sophia Loren at home. Naples, 1955
©1996 from the Estate of David Seymour

More Pictures

Portraits of Personalities

In those years, Magnum photographers helped each other, not only with their work, but sometimes also emotionally. Just before Magnum was founded, Robert Capa had ended a love affair with Ingrid Bergman. She was then still married to her first husband, the Swedish surgeon Peter Lindstrom, and she was an idol of public and press. Bob felt marrying would not be compatible with his work as a photographer, but they remained friends. In 1950 Ingrid gave birth to her first child with Roberto Rossellini. The world press hounded her for pictures, at the same time reviling her for having left her first husband and daughter. Chim was the only one Ingrid allowed to photograph her. Ingrid became, as Chim used to say, his "favorite subject." Two years later, Chim went down once again to Santa Marinella, and took the now- classic photographs of Ingrid and the twins. Ingrid soon wrote to him:

Chim and Marilyn Monroe at The 21 Club. New York City, circa 1952.

Photograph by Burt Glinn.
©1996 Burt Glinn

HCIL

MAGNUM PHOTOS

Home . Search . My Account . My Cart . About Magnum . Help

Features . Photographers . Books . Exhibitions . Advertising/Corporate

Search : pictures by David Seymour

PREVIOUS NEXT THUMBNAILS HELP

Print
Email Image

A B

Copyright : © David Seymour / Magnum Photos

GO TO IMAGE 36 of 500

Venice. Mrs Peggy GUGGENHEIM in her palace on the Grand Canal.

From original feature : ITALY. 1950. by David Seymour

See related features :

Book	David Seymour (Chim)
Portfolio	SED_CENTERPANEL
Distribution	Book DAVID SEYMOUR-"CHIM"
Distribution	Book CLOSE ENOUGH
Book	AFTER THE WAR WAS OVER
Book	CHIM - The Photographs of David Seymour
Book	David Seymour Exhibition Catalogue

Image reference : PAR82161 (SED1950001 W00068/07C)

Hide Keywords

Canal . Caress . Dog . Exterior . Flat roof . Fortune . Glamour . GUGGENHEIM Peggy . Italy . Pet . Portrait . Seated . Sunglasses . Venice (Italy) . White people

MAGNUM PHOTOS

Home . Search . My Account . My Cart . About Magnum . Help

Features . Photographers . Books . Exhibitions . Advertising/Corporate

Search : pictures by David Seymour

PREVIOUS NEXT THUMBNAILS HELP

Print
Email Image

A B

Copyright : © David Seymour / Magnum Photos

GO TO IMAGE 26 of 500

ITALY. Rome. 1955. Sophia LOREN.

From original feature : ITALY.Rome. Sophia LOREN, Italian actress, at home. by David Seymour

Image reference : NYC40337 (SED1955006 K049)

Hide Keywords

Apartment . Exterior . Glamour . LOREN Sophia . Portrait . Residence (Personality) . Rome (City) . Seduction . Sensuality . Shorts . White people . Woman - 25 to 45 years

HCIL

Solving Image Retrieval = Cleaning Up Air Pollution

- Family of problems demands multiple solutions
  → Explode the problem

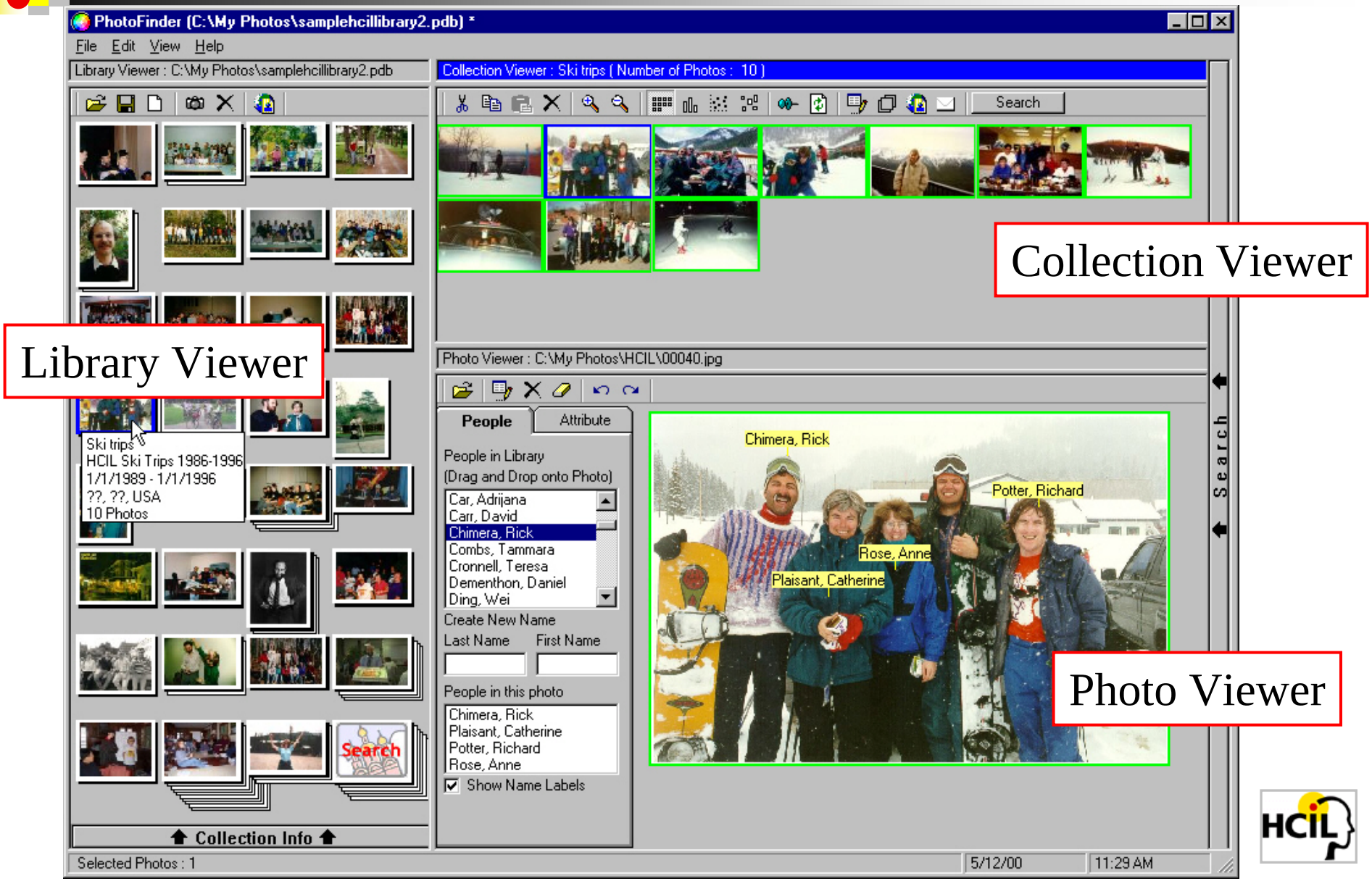
- What kinds of images?
- What kinds of image collections?
- What kinds of searches?

- Improve technology &
  Design human-centered solutions

Exploratory Search Motivations

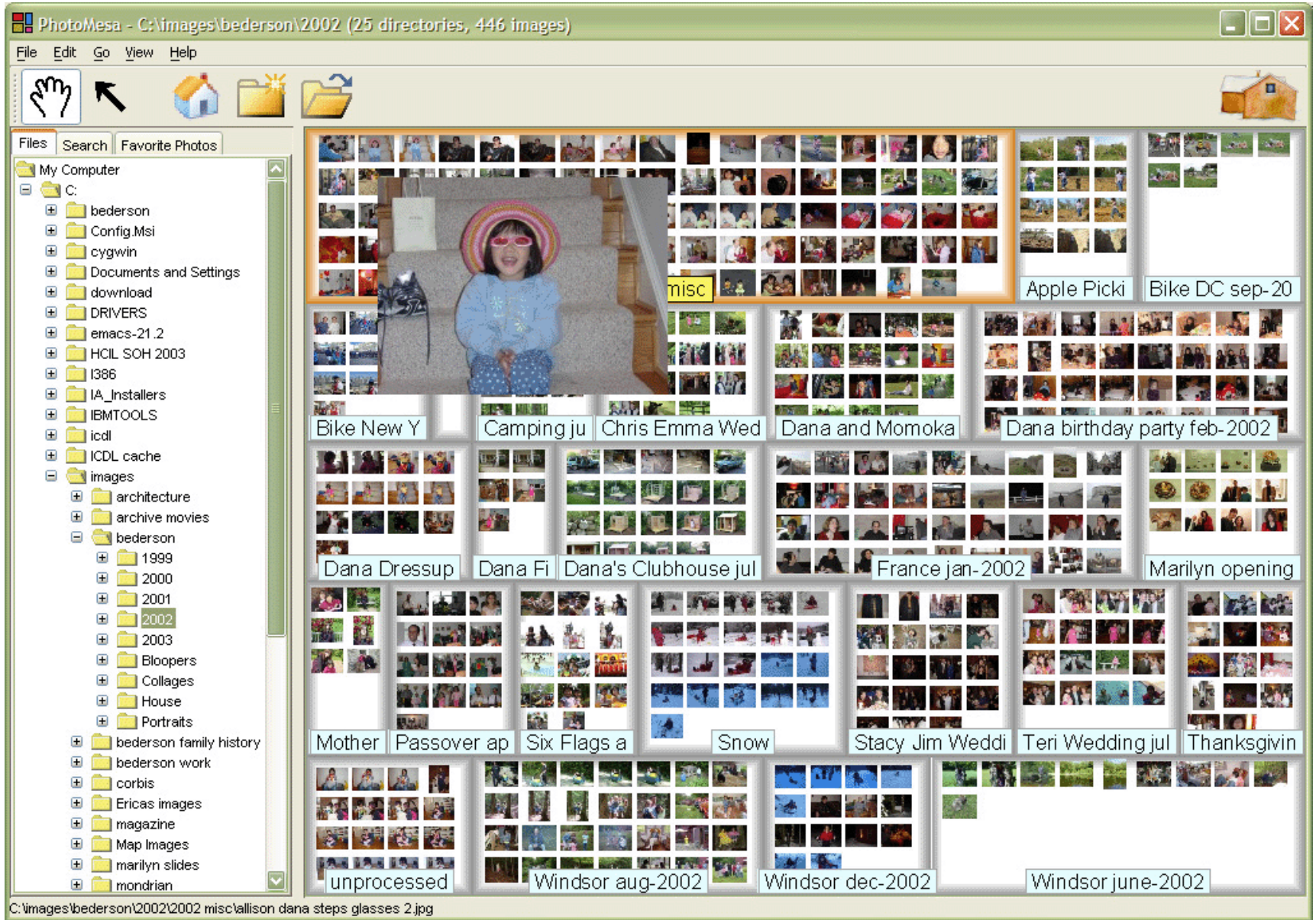
- Users' knowledge of the data is incomplete
- Users' tasks are vaguely specified
- Indexes don’t match users' search request

PhotoFinder: Drag-and-Drop Annotation

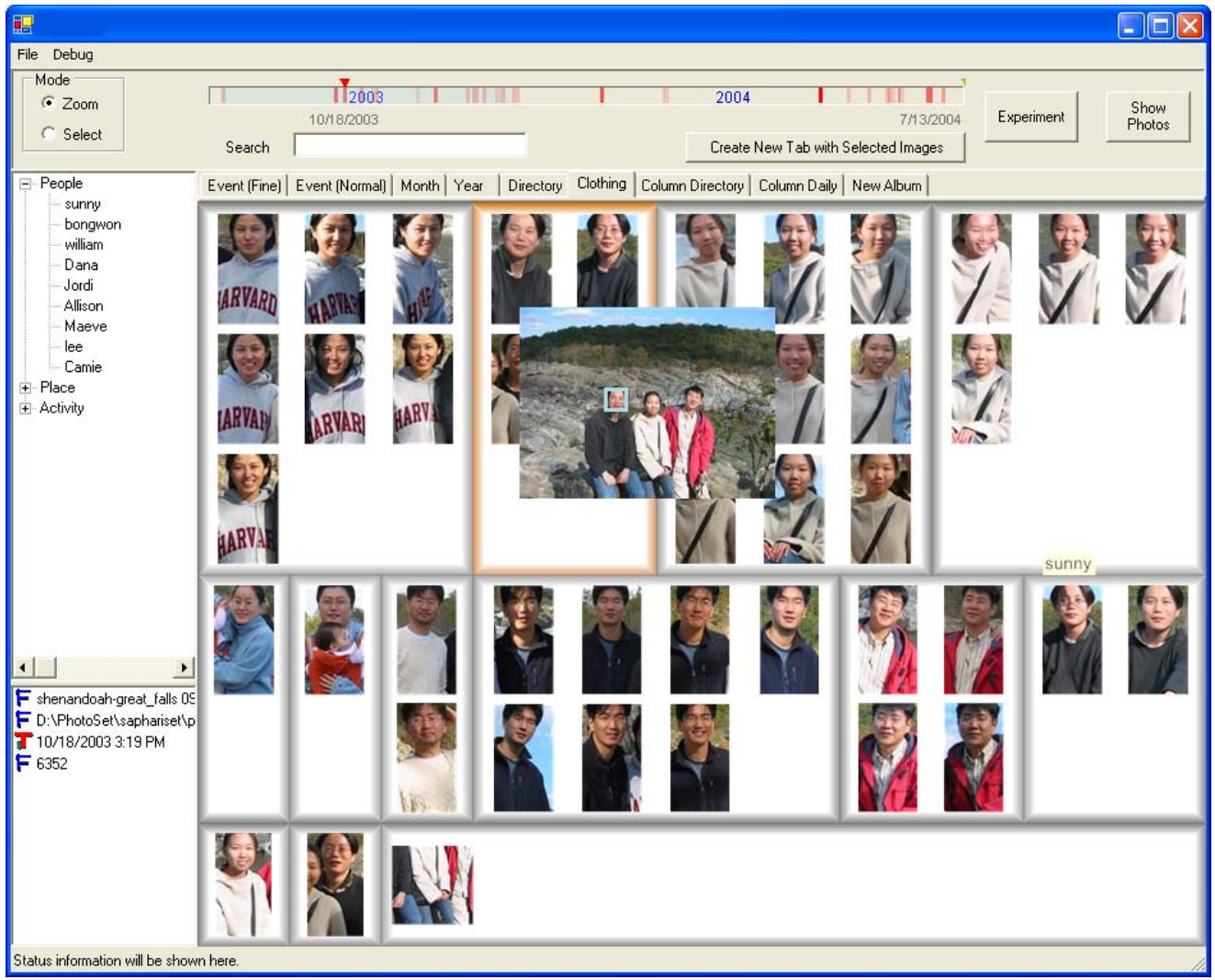


PhotoMesa

www.photomesa.com



SAPHARI: Cluster by clothing

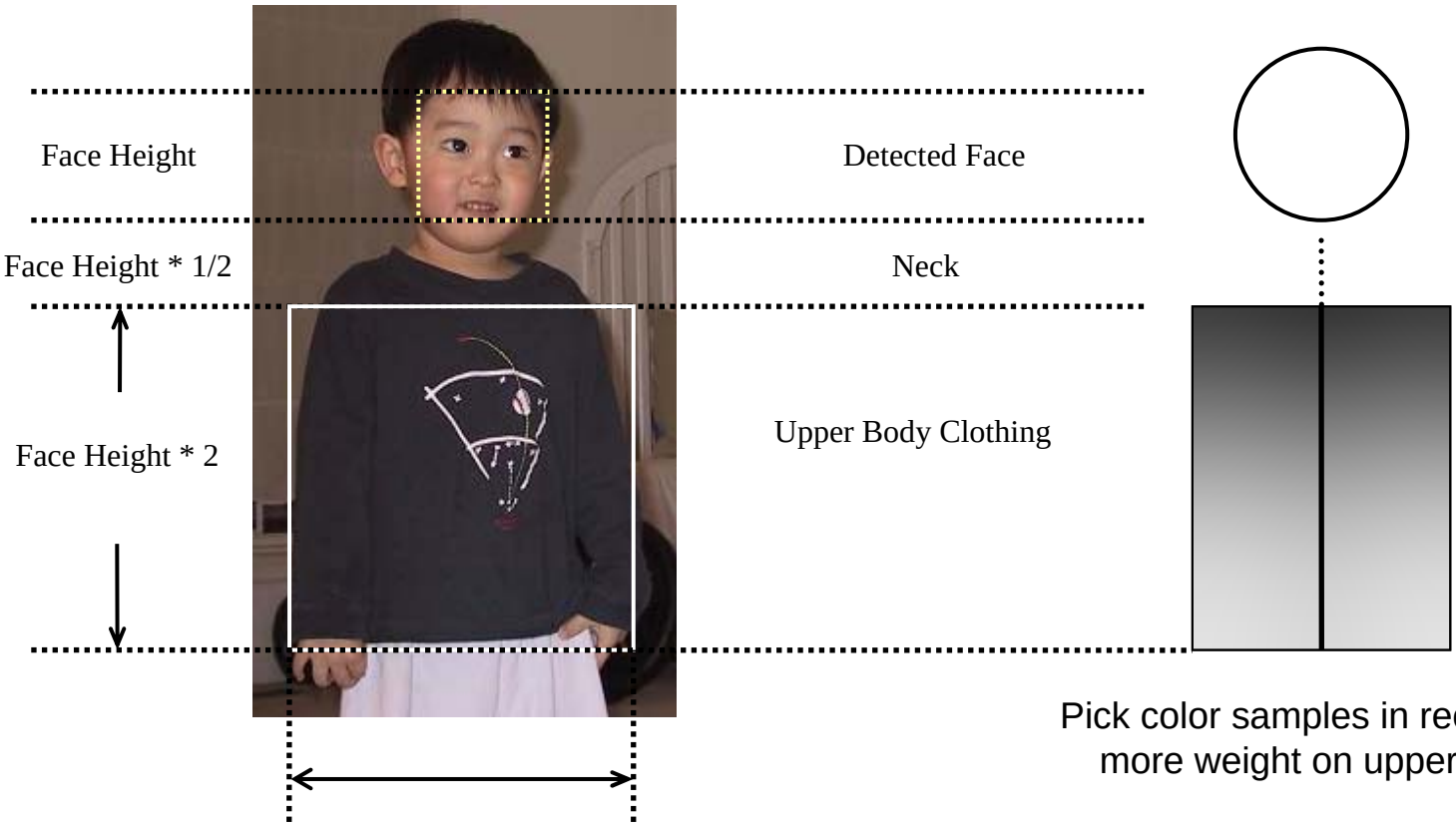


Semi-Automatic PHoto Annotation and Recognition Interface

www.cs.umd.edu/hcil/saphari/

SAPHARI: Cluster by clothing

Human Clothing Model



Pick color samples in rectangle,
more weight on upper area.

Semi-Automatic PHoto Annotation and Recognition Interface
Bongwon Suh & B. Bederson, 2003

Riya - Photo Search - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

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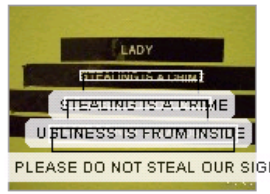
Riya Photo Search

We use face recognition, text recognition, and more to look inside the photograph so you can find the photo you want.

Search above or browse below.



People and Albums:

People View All

Mike Hagerty

Ofir Roze...

Lee Dadpour

Jeremy D ...

Josh

nongwoo c...

Celebrities View All

Britney S...

Brad Pitt

Keira Kni...

Angelina

Ben Affleck

Kate Beck

Objects:

Transport View All

Aston Mar...

Choppers

Mercedes ...

Porsche 911

Yamaha YZ...

Ferrari 5...

Nature View All

Elephant

Niagara f...

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Sunset

Tiger

Tulip flower

Locations and Time:

Locations View Map

Time View Calendar

Most Popular Searches

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(1 item remaining) Downloading picture http://www.riya.com/fileServer?p=ad6a2475188512fbaedde1dedfc49c307d5

Unknown Zone

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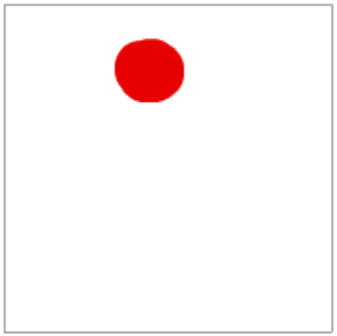
Welcome in 2006!

retrievr

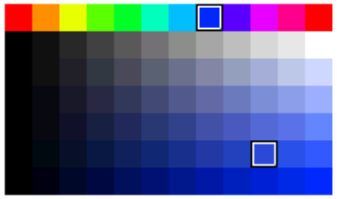
All images

Search by:
Sketch • Image



Undo | Redo | Clear

20 30 50



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From Ex-ShaiL

From f00b

From Nick-Name Unleashed

From Fábio Pinheiro

From lilylord

From Ðó£PÊ|n

From MaD Gi@L•™

From soldeace

From cacique

From cybele malinowski

From Lisa Selk

From mimmi

From BOOJOO

From MaD Gi@L•™

From anideq

From lorrainemd

From tangentialism

Welcome in 2006!

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All images

Search by:
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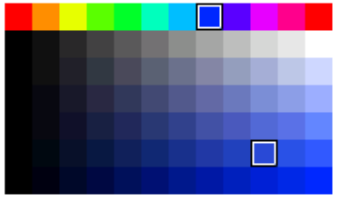
Undo | Redo | Clear

20 30 50



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From Ex-ShaiL

From poesie

From Nick-Name Unleashed

From f00b

From lorrainemd

From ° d i °

From Fábio Pinheiro

From MZOON

From soldeace

From mimmi

From Envious Emerald

From Jeannot7

From yankinoz

From alba

From Ðó£Pñ¦n

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explosion

Full text Tags only

We found 16,369 photos about explosion.

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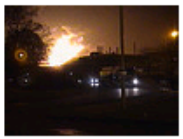
From ron.richards...

From FireFighting...

From www.nazret.c...

From debastoba

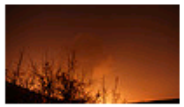

From Munchy1

From Joserri

From silyld

From Joel Veitch

From Fairplay1


From r12a

From Helm

From dave again

From Fairplay1

From The Slow...

From The Slow...

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From B-28

From VeldaZ

From bandtpaparaz...

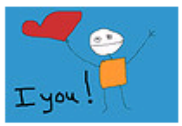
From Daffodilious

From VeldaZ

From ashitaka*

From zeroion

From esp_maqus



From peep's mama

From chezza2.0

From esp_maqus

From Ms. Larry...

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384 results 20 per page Sort by Relevance ← Page 1 of 20 →

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RF CKN01014

RF 00120032

RF BXP56696

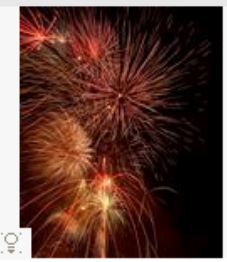
RF 011776PG

RF BXP42282

RF 20343WNE

RF 18777DLE

RF 011731PG



RF 84184

RF BXP60296

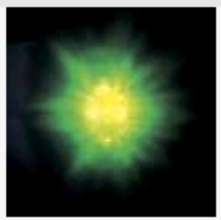
RF GS049075

RF 311009

RF BXP60298

RF 34014

RF 15318-48IL



You Searched For:

explosion

Guided Search

People

- Activity 148
- Number of People 91
- Emotion 41
- Appearance 21
- Occupation 21

Concepts

- Idea 334
- Topic 236
- Lifestyles 109
- Industry 48

Style

- Composition 176
- Image Technique 162
- Color Manipulation 134
- Viewpoint 33
- Image Type 15

Setting

- Location 262
- Event 201
- Buildings And Architecture 42

Things

- Everyday Things 183
- Professional Equipment 86
- Vehicles 23
- Foods And Drink 16

Nature

- Natural Phenomenon 283
- Plants And Vegetation 21

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Flamenco UC Berkeley Architecture Slides

A snapshot of images from the UC Berkeley Architecture Visual Resources Library

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Save Search | History and Settings | Return to Search | New Search | Logout

search

all items in current results

Refine your search within these categories:

PEOPLE (group results)

- agency (194)
- architect (12279)
- artist (1112)
- author (244)
- designer (211)
- developer (67)
- historical figure (35)
- instructor (725)
- photographer (58)

PERIODS: all > 20th Century

LOCATIONS (group results)

- Africa (264)
- Antarctica (2)
- Asia (656)
- Australasia & Pacific Islands (85)
- Central America (1)
- Eastern Europe (580)
- Middle East (107)
- North America (7936)
- South America (169)
- Southeast Asia (88)
- more...

Subcategories:
Korea
Burma
Cambodia
Brunei
Indonesia
Malaysia
Singapore
Vietnam
Philippines
Thailand
Sumatra

STRUCTURE TYPES (group results)

- architectural elements (2504)
- book elements (49)
- buildings (by design) (766)
- buildings (by function) (10079)
- buildings (by height) (162)
- buildings (by location or context) (219)
- buildings (by massing or shape) (271)
- cultural landscapes (81)
- details (1128)
- human settlements (by condition) (8)
- more...

MATERIALS (group results)

- animal material (7)
- artists' materials (26)
- asphalt (2)
- brick (718)
- building materials (262)
- cement (3)
- ceramic (1)
- ceramic tile (142)
- clay (12)
- coating (332)
- more...

STYLES (group results)

- African (55)
- Asian (595)
- Australian & Pacific Island (74)
- Central American (2)
- Early Mediterranean (142)
- Early Near Eastern (49)
- European (6652)
- Islamic (6)
- North American (10052)
- Postmodern (International) (296)
- more...

These terms define your current search. Click the × to remove a term.

PERIODS: 20th Century ×

Items 121 to 160 of 17827 results

Group by: Periods

1 41 81 121 161 201 241 281 321 361 401 ... 17801

Govenor Alfred E. ...

Chatham Green Publ...

Field Research Sta...

Field Research Sta...

h Sta...

Field Research Sta...

Field Research Sta...

Field Research Sta...

h Sta...

Landscape

Grove of Trees

Main Street

Town Square

Overpass

Grain Elevator

Courtyard

Mountains, Single ...

Brilliant Trees

Tree, Purple Grass

~

Photo annotation methods

- Context at capture
- Automated annotation at capture
- Automated analysis
- Human annotation during ingest
- Social annotation (tagging & folksonomies)
- Continuous human annotation
- Annotation by use

Exploratory Search Motivations

- Users' knowledge of the data is incomplete
- Users' tasks are vaguely specified
- Indexes don’t match users' search request

Exploratory Search Strategies

- Users' knowledge of the data is incomplete
  - Provide users overviews - show the whole database
  - Allow multiple perspectives

Exploratory Search Strategies

- Users' knowledge of the data is incomplete
- Users' tasks are vaguely specified
  - Interfaces shape process of query formulation
  - Allow multiple starting points
  - Support iterative search
  - Allow marking or collections

Exploratory Search Strategies

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- Indexes don’t match users' search request
  - Reveal your data
  - Expose indexes
  - Provide multiple facets
  - Show categorized search results

Exploratory Search Strategies

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- Indexes don’t match users' search request
  - Reveal your data
  - Expose indexes
  - Provide multiple facets
  - Show categorized search results

Research Methods

- Controlled Experiments
  - Theory-driven, hypothesis testing
  - Modify Independent Variables → Measure Dependent Variables
- Ethnographic Methods
- Surveys & Questionnaires
- Logging & Automated Metrics

http://www.otal.umd.edu/charm/

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LABORATORY

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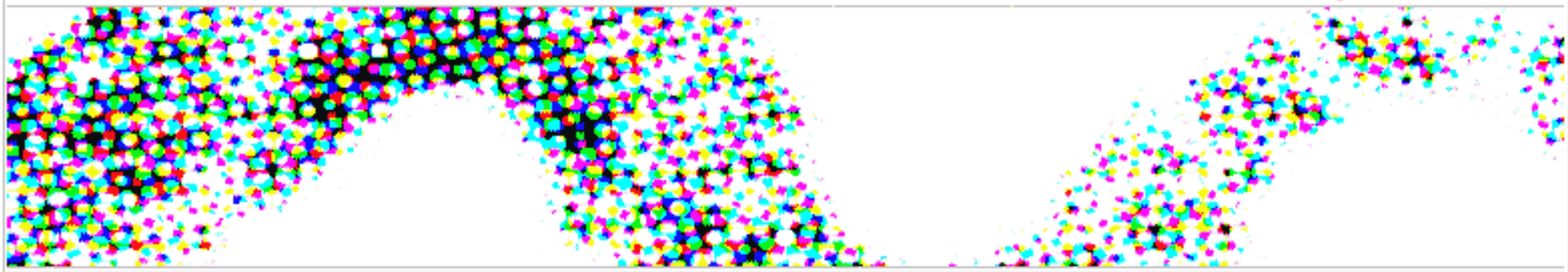
CC2007

6th Creativity & Cognition Conference

Seeding Creativity: Tools, Media, and Environments

June 13-15, 2007, Washington, DC USA



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Cognition Conference series began in 1993
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and practice. Rigorous research is
etic foundations are emerging and goals
efined. Successful practice manifests itself in
creativity support tools for discovery and
ware a
nd gra
ducator
underst
ools ca

Important Dates

Papers Deadline:	December 15, 2006
Notification:	February 19, 2007
Revised papers:	March 19, 2007
Conference:	June 13-15, 2007

http://www.cs.umd.edu/hcil/CC2007/

feature two elegant evening receptions at
prominent Washington, DC locations:
the National Academy of Sciences (June 13) and Corcoran Gallery of Art (June 14)

For More Information

- Visit the HCIL website for 350 papers & info on videos
  `www.cs.umd.edu/hcil`
- Conferences & resources: **`www.infovis.org`**
- See Chapter 14 on Info Visualization
  Shneiderman, B. and Plaisant, C., *Designing the User Interface: Strategies for Effective Human-Computer Interaction: Fourth Edition* (April 2004) **`www.awl.com/DTUI`**
- Edited Collections:
  Card, S., Mackinlay, J., and Shneiderman, B. (1999)
  Readings in Information Visualization: Using Vision to Think
  Bederson, B. and Shneiderman, B. (2003)
  The Craft of Information Visualization: Readings and Reflections

For More Information

- **Treemaps**
  - **HiveGroup:** `www.hivegroup.com`
  - **Smartmoney:** `www.smartmoney.com/marketmap`
  - **HCIL Treemap 4.0:** `www.cs.umd.edu/hcil/treemap`
- **Spotfire:** `www.spotfire.com`
- **TimeSearcher:** `www.cs.umd.edu/hcil/timesearcher`
- **Hierarchical Clustering Explorer:**

  `www.cs.umd.edu/hcil/hce`

THE OPEN VIDEO PROJECT
a shared digital video collection

- Home
- Contribute
- About

Modify Search

Search: All fields
for explosion

Genre: -- Any Genre --
Duration: -- Any Duration --
Format: -- Any Format --

Color: ○ Color ○ B&W ◉ Either
Sound: ○ Sound ○ Silent ◉ Either

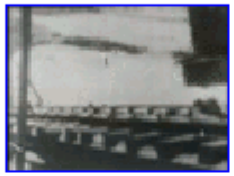
Search

Detailed Search

Page 1 **Search Results (4 videos found)**

Layout:

Sort by: Relevance
Results per page: 10



Mining operations, Pennsylvania coal fields (1904)
The film opens on an area covered with snow where the following operations are visible: track laying, and dirt moving by explosion, grader, steam shovel, and steam engine.

Genre: Historical
Keywords: Mines and mineral resources--Pennsylvania; Actuality--Shorts;
Duration: 00:02:25
Popularity (downloads): 318

The Story of Hoover Dam, segment 04 of 12 (1996)
Construction began with diverting the Colorado River around the dam site

Genre: Documentary
Keywords: Hoover Dam;Construction;Dam
Duration: 00:02:30
Popularity (downloads): 698

Lake Powell, segment 03 of 11 (1997)
Construction of the dam began in October, 1956

Genre: Documentary
Keywords: Construction;Dam
Duration: 00:02:17
Popularity (downloads): 330

Hoover Dam Construction, segment 06 of 17 (1996)
The canyon walls were prepared to receive the abutments of the dam

Genre: Documentary
Keywords:
Duration: 00:01:47
Popularity (downloads): 298

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chi2006

Full text Tags only

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View: Most relevant • Most recent • Most interesting

From Ronald van... From Ronald van... From liuliuliu From liuliuliu

From liuliuliu From liuliuliu From liuliuliu From liuliuliu

From Mikkel... From liuliuliu From liuliuliu From liuliuliu

From liuliuliu From Ronald van... From liuliuliu From liuliuliu

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Search Photos Groups People

tree SEARCH Advanced Search

Full text Tags only

Show details

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From killthebird From Lynn Morag From macaddict From Anthemic...

From lotusutol From + Jerry + From Kamala L From interfaced

From aroid From SaintSeminol... From SaintSeminol... From Helen Eden

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Search | CD Store | Promotions | Galleries

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59,420 results 20 per page Sort by Relevance Page 1 of 2971

RF DWH01194 RF RRA02102 RF SKS02061 RF RRA02105 RF JUF03262

RF PSS08003 RF JUF03263 RF PSS01061 RF TDN03079 RF TDN05041

RF TDN05004 RF NIC01009 RF DMP02031 RF TNN02005 RF RSO26027

RF TDN03040 RF PAA01142 RF DMP01057 RF BNG01016 RF JUF03312

59,420 results 20 per page Sort by Relevance Page 1 of 2971

You Searched For:

tree

Guided Search

People

- Number of People 33611
- Activity 24808
- Age 19005
- Ethnicity 17699
- Appearance 15823
- Gender 12522
- Emotion 11859
- Relationships 8730
- Role 7017
- Occupation 2038

Concepts

- Idea 39181
- Industry 15942
- Topic 15939
- Lifestyles 12814

Style

- Composition 24402
- Viewpoint 19931
- Image Technique 6079
- Color Manipulation 2636
- Image Type 1294

Setting

- Location 52780
- Buildings And Architecture 13069
- Places 10841
- Event 5010

Things

- Everyday Things 14403
- Clothing And Accessories 14190
- Professional Equipment 7375
- Vehicles 4443
- Foods And Drink 3324
- Number of Things 2941

Nature

- Plants And Vegetation 55460
- Natural Phenomenon 42357
- Animals And Wildlife 4734

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DWH01194 RRA02102 SKS02061 RRA02105 JUF03262

PSS08003 JUF03263 PSS01061 TDN03079 TDN05041

RSO26027

JUF03312

You Searched For:

tree

Guided Search

People

- Number of People 33611
- Activity 24808
- Age 19005
- Ethnicity 17699
- Appearance 15823
- Gender 12522
- Emotion 11859
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- Vehicles 4443
- Foods And Drink 3324
- Number of Things 2941

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- Plants And Vegetation 55460
- Natural Phenomenon 42357
- Animals And Wildlife 4734

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59,420 results 20 per page Sort by Relevance Page 1 of 2971

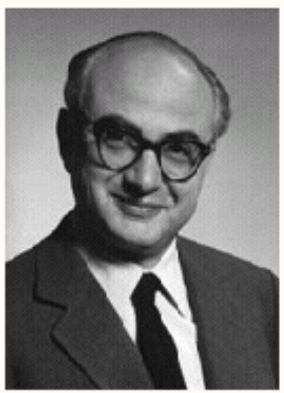
(Nazario) Eliezer Tritto and his daughter Myriam, Alma, Israel, 1951. Myriam was the first child to be born in the Italian immigrant settlement in Alma.
©1996 from the Estate of David Seymour

More Pictures

Israel

The plight of the Jews was never far from Chim's consciousness, even, as Cartier-Bresson described it, "with a certain sense of despair at his own situation." However sophisticated and caring he was, however much he enjoyed life, he was conditioned by the circumstances of his background and by the fate of his parents in a world where anti-Semitism was rife. The safe haven of Palestine, later Israel, for those who had survived the Holocaust, was therefore never far from his thoughts. In November 1947, the young United Nations passed a resolution to partition Palestine into two new states, the State of Israel and the State of Palestine. The latter was never formed because the leaders of Egypt, Transjordan, Syria, Iraq, and Lebanon rejected the partition, and immediately upon the formation of the State of

David Seymour (Chim). Photograph by Elliott Erwitt ©1996 Elliott Erwitt



David Seymour (Chim). Photograph by Philippe Halsman ©1996 from the Estate of Philippe Halsman