Aims to facilitate the cross-fertilization of topics presented at four JCDL WS. It features short overviews of the workshop topics as well as talks, presentations, and demos of four workshops:

- **Document Search Interface Design**
- **Usability of Digital Libraries**: Dumas & Plenacoste will give a talk on "Libraries: Comparisons between real and virtual"
- **Visual Interfaces to Digital Libraries**: Mike Christel, CMU will present new results on "Auto-Summarization and Visualization across Multiple Video Documents and Libraries"
- **Digital Gazetteers: Integration into Distributed Digital Library Services**

All JCDL attendees are welcome to participate.
Second International Workshop on
Visual Interfaces to Digital Libraries

at the ACM+IEEE Joint Conference on Digital Libraries
July 18th, 2002, Portland, Oregon, USA

Workshop Organizers

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Aims
The primary aim of the workshop is to raise the awareness of several interconnected fields of research related to the design and use of visual interfaces to digital libraries, especially in information visualization, human-computer interaction, and cognitive psychology. This workshop also aims to stimulate participants to reflect on the state of the art in their own fields by identifying challenging issues concerning visual interfaces and thereby fostering a multidisciplinary research agenda for future research and development.
Objectives

- To provide a stimulating forum for researchers in information visualization and digital libraries to share their views, experiences, and plans.
- To raise the awareness of the state of the art in related fields of research.
- To identify a research agenda concerning the role of visual interfaces in digital library research.
- To exploit potentially useful theories, methodologies, and technologies.
- To establish long-term interdisciplinary collaboration between researchers from different fields.
Topics of Interest

- Web based Visual Interfaces
- Mobile Access to Information
- Collaborative Document Spaces
- Usability and Formal Methods - see also JCDL-WS on Usability for Digital Libraries
- Real World Needs, Products & Applications
Expected Audience

- Researchers, practitioners, software developers/vendors, and graduate students in the areas of information visualization, digital libraries, human-computer interaction, library and information science, and computer science.
Workshop Schedule for July 18th

8:30am Welcome and Introduction by Katy Börner
8:45am Keynote Talk by Tim Bray, Antarti.ca Systems
9:30am Open Discussion: The Role of Visual Interfaces in Digital Libraries; Self Introduction of WS Participants; Identification of Important Issues to be Addressed.
10:00am Break & System Demos
10:45am Presentation of 3 Papers (a 15min + 5min) and General Discussion
- Time as Essence for Photo Browsing Through Personal Digital Libraries by Graham et al., Stanford University, USA
- Interactive Timeline Viewer (ItLv): A Tool to Visualize Variants Among Documents by Monroy et al., Texas A&M University, USA
- Variations2: Toward Visual Interfaces for Digital Music Libraries by Notess & Minibayeva, Indiana University, USA
12:00 - 1:30pm Lunch Break
1:30pm Presentation of 4 Papers (a 15min + 5min) and General Discussion
- Accessing Libraries as Easy as a Game by Christoffel & Schmitt, University of Karlsruhe, Germany
- Interactive Information Visualization in the Digital Flora of Texas by Ong & Leggett, Texas A&M University, USA
- Towards Escaping the Interface Local Minimum: Visualization and the Alexandria Digital Earth Prototype by Ancona & Smith, University of California, USA
- A Leightweight Protocol between Digital Libraries and Visualization Systems by Rao Shen, Jun Wang & Eduard A. Fox, Virginia Tech, USA
3:00pm Break & System Demos
3:45pm Expert Panel: Challenges and Opportunities
4:30pm Summary and Conclusion
5:00pm Close
Keynote speaker: Tim Bray, Antarti.ca Systems

Title: Design Criteria for Visual Interfaces to Anything

Abstract: We assume that Visual Interfaces are a necessity for the Digital Library. In fact, the Antarcti.ca project goes further in the belief that visual interfaces are appropriate for almost any dataset too big to display on a single screen. But there are dangers: first, there are really bad reasons to engage in visualization. Second, where visualization is appropriate, it’s possible to build a really bad interface. In this presentation we lay out a set of criteria, first for where visualization is appropriate and second, what are the criteria for excellence in doing it. We draw on the work of Edward Tufte and other pioneering thinkers in the general area.


System Demos

PubMed, Map.Net, and VCDetail map by Tim Bray, Antarti.ca Systems
Interactive Information Visualization in the Digital Flora of Texas by John Leggett, Texas A&M University
2D and 3D Visualization of Large Information Spaces by Carlos Proal, Universidad de las Americas-Puebla, Mexico
Ted Nelson’s ZigZag and How It Can Serve as a Data Structure or Map for Multi-Dimensional Constructs by Nicholas Carroll, Hastings Research
James Burke’s Knowledge Web by Patrick McKercher
Collaborative Visual Interfaces to Digital Libraries by Katy Börner, Indiana University
Visualizing Knowledge Domains (poster) by Katy Börner, Indiana University, Chaomei Chen, Drexel University and Kevin W. Boyack, Sandia National Laboratories
Keynote speaker: Tim Bray, Antarti.ca Systems

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Publication

- Springer will publish a selected set of extended papers of the 2001 and 2002 JCDL workshop on "Visual Interfaces to Digital Libraries" in its Lecture Notes in Computer Science (LNCS) series.
- The edited book aims to provide a comprehensive coverage of the topic to a wider audience.
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Visual Interfaces to DL
Prelude Talk

"Auto-Summarization and Visualization across Multiple Video Documents and Libraries"
By Mike Christel, CMU

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