

Center for the Study of Digital Libraries

The mission of the Center is to foster pioneering research on the theory and application of digital libraries and to create flexible and efficient technologies for their use

Mission

- **The Center is a member of the global digital library research community and provides a focal point for digital libraries research and technology for the state of Texas.**
- **The Center provides expertise and experience to help transfer collections of all types—from books and journals to biological specimens and museum pieces—into useful digital libraries.**
- **Digital libraries research includes projects in user interface and client software, collaborative scholarship, and information systems for storage and retrieval of materials.**

CSDL history

- Established in 1995 by the Texas A&M University System Board of Regents
- Located within the facilities of the Computer Science Department on the TAMU main campus
- Currently the primary home to five Computer Science faculty
- Collaborations across the Texas A&M University campus and with the international research community

CSDL faculty

- **Richard Furuta, Professor and Director of the CSDL**
- **Frank Shipman, Associate Professor and Associate Director of the CSDL**
- **John Leggett, Professor Founding Director of the CSDL**
- **Du Li, Assistant Professor**
- **Andruid Kerne, Assistant Professor**

Center strengths

- **Known and recognized as an active participant in national and international research community**
 - Originated Digital Libraries conference series
 - Editorships in leading journals
 - Journal of Digital Libraries editor-in-chief; TOIS, JERIC, NRHM editorial boards
 - Leadership roles in community
 - Leadership role in SIGs (SIGWEB chair; TCDL steering committee); leading international conferences (JCDL steering committee; conference chair; program chair; program committees)
 - Active participants in NSF DLI2 and NSDL programs

Center strengths

- **Catalyst for broadly interdisciplinary activities on the Texas A&M University campus**
 - **Humanities informatics initiative (Engineering, Liberal arts, Libraries)**
 - **Interdisciplinary research projects across many TAMU colleges and departments**
 - **Liberal arts: Glasscock CHR, Modern and Classical Languages, Speech Communication, Psychology**
 - **Science: Botany**
 - **Agriculture and life sciences: Rangeland ecology, Entomology**
 - **Education: Educational Psychology**
 - **Architecture**
 - **TAMU Libraries**

Research in the CSDL

Active research environment

- **Two areas of work from the many that are active and ongoing in the CSDL**
 - **Collection Understanding (John Leggett)**
 - **Humanities Informatics (Richard Furuta, John Leggett, Frank Shipman)**

Collage - Microsoft Internet Explorer

Metadata Filtering

Enter search criteria for Online Picasso Project

Title

Place

Duration

Media

Size

Collection

Create Collage Reset Filtering Form

Viewing 1502 of 6893 imgs:21.79%

Collage Variably Gridded Thumbnails Ambient SlideShow

Collage Speed

0 1 2 3 4 5

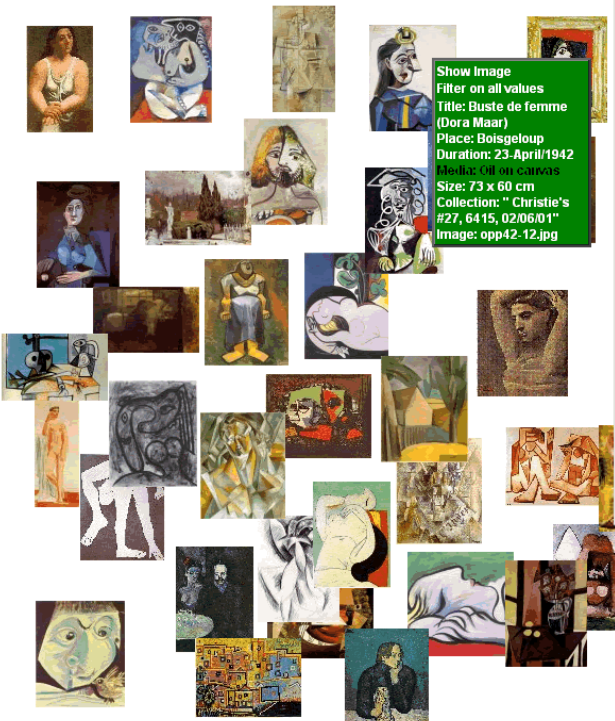

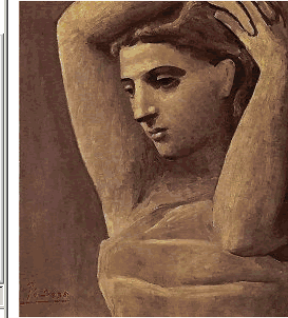

Time between images (in seconds)

Collage Remote Control

Play Pause Clear

Java Applet Window

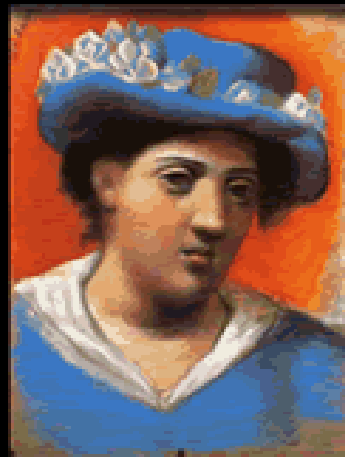
Show Image
Filter on all values
Title: Buste de femme
(Dora Maar)
Place: Boisgeloup
Duration: 23. April 1942
Medium: Oil on canvas
Size: 73 x 60 cm
Collection: "Christie's
#27, 6415, 02/06/01"
Image: opp42-12.jpg

C COLLECTION U UNDERSTANDING

Access to image collections currently relies on vague metadata descriptions or knowing metadata values. Queries return specific images that give no essence of the image collection and browsing metadata is an inflexible and pre-defined mechanism.

Collection understanding focuses on the artifacts of the collection and allows participants to see in the mind's eye the essence of the collection, affording derivation of novel conclusions.



Humanities Informatics

“The application of information technology to the understanding of the human record”

Steering committee participants

- **College of Liberal Arts**

- James Rosenheim (History and GlasscockCHR), Eduardo Urbina (Hispanic studies), Chris Menzel (Philosophy)
- Content and scholarly processes
- Glasscock Center for Humanities Research
 - Fosters research on humanities scholarship

- **College of Engineering**

- Richard Furuta, John Leggett, and Frank Shipman (all CS and CSDL)
- Information technology and pedagogy
- Center for the Study of Digital Libraries
 - Fosters research on theory and application of DLs

- **Texas A&M University Libraries**

- Colleen Cook (Dean), Steven Smith (Head, Cushing Library), Martha Bedard (Associate Dean for Digital Initiatives), John Leggett (Associate Dean for Digital Initiatives Research)
- Information infrastructure and evaluation methodologies
- Texas A&M University Libraries
 - Ranks in top 40 of Association of Research Libraries
 - Acquires resources globally and ensures enduring access to scholarly research

Information Technology
(CSDL)

Humanities
(CHR)

Humanities Informatics

Graduate Research

Cervantes
Shakespeare
SciFi & Fantasy

Graduate Education

CHI	<i>RAL</i>	TB
CSCW	<i>CCM</i>	LTCS
DL	<i>TSDA</i>	HBP
HM	<i>HTP</i>	
IR	<i>CL</i>	
IV	<i>MA</i>	
IUI	<i>LS</i>	

Infrastructure and Evaluation
(Texas A&M University Libraries)

Selected HI projects in the CSDL

- **Digital collection development**
 - Cervantes Project
 - On-line Picasso project
- **Information technology research**
 - Guided paths and their maintenance
 - Timeline based visualizations

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Cervantes Project

- **Comprehensive web-accessible reference and research site on life and works**
 - Started in 1995
 - Three year NSF ITR grant in 2000
- **Comprised of:**
 - International Bibliography Online
 - Digital Library
 - Digital Archive of Images



<http://www.csd.tamu.edu/cervantes>

PIs: Eduardo Urbina (Hispanic Studies) and
Richard Furuta (Computer Science)



On-line Picasso Project

- Digital library of artworks, biographical data and critical analysis of Pablo Picasso
- Over 7,000 catalogued entries
- Interlinked biography, exhibition notes, and commentary
- Areas: Information presentation/organization, personalization, culturally situated knowledge
- Enrique Mallen, Hispanic Studies
- <http://www.tamu.edu/mocl/picasso>

ON-LINE PICASSO PROJECT - Dr. Enrique Mallen - Mozilla

WORKS


1881	1882	1883	1884	1885	1886	1887	1888	1889	1890
1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
1901	1902	1903	1904	1905	1906	1907	1908	1909	1910
1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
1921	1922	1923	1924	1925	1926	1927	1928	1929	1930
1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
1961	1962	1963	1964	1965	1966	1967	1968	1969	1970

ON-LINE PICASSO PROJECT - Dr. Enrique Mallen - Mozilla

← 1912 [31] →

FIRST QUARTER | SECOND QUARTER | THIRD QUARTER | FOURTH QUARTER

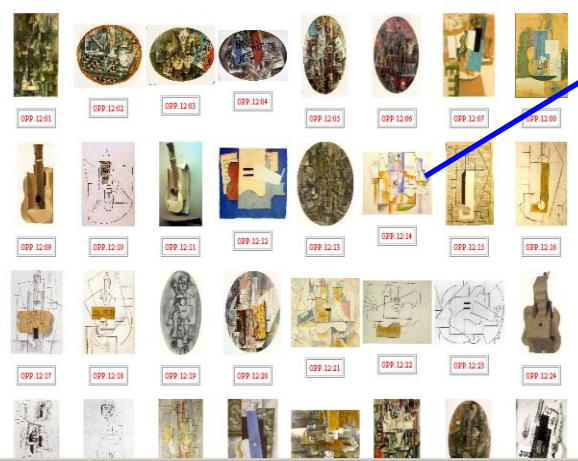
ON-LINE PICASSO PROJECT - Dr. Enrique Mallen - Mozilla



On-Line Picasso Project

LIFE WORKS MUSEUMS BOOKS ARCHIVES SEARCH

← 1912 [31] →



YEAR: French Army General Staff makes the offensive à outrance official French military doctrine.

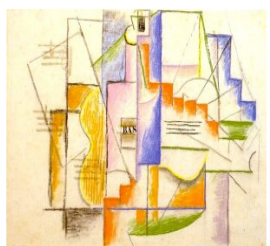
JANUARY At 11, boulevard de Clichy in Paris, paints 'Ma Jolie' (Femme à la guitare) [OPP 12.01], the mysterious, 'metaphysical' quality of 'High Analytic Cubism', the paradigm of its Cubist composition. No distinct possibilities of comparison between pictorial and natural subject in its tonal values. They shade into darks where one anticipates lights and, sometimes, the reverse effect? This phenomenal light penetrates as much as it illuminates. The analogy it invokes of explanation. The innards of the subject are exposed in what looks to be architectural forms, as implied. The picture can be spoken of only very approximately as an anatomical structure - it is evident... than the striking difference between the rate at which we perceive and the time it takes to be obliged to tell it.

...mpounded, and denser than so far that the imagination assumes a homogeneity, on that basis, to make a guitar? [OPP 12.01]... es, spindles, shafts, and like forms (the torso) - ever much these feature and torso, that one could life? " (Kozloff 1973, 1974)

...ical synthesis: "In the 4 type of painting, this is this new method of seeing and receding ellipses of linear framework, like a solid form a different perspective a whole set various sections. In the cited." (Golding 1968, 1969)

...tachis (Kou?) [OPP 12.02] fluence and combination has a vortex at the nature. "Observe that Picasso made it as truncated or broken at the canvas... Who were living together, w... e theme of 'Ma Jolie' s...

ON-LINE PICASSO PROJECT - Dr. Enrique Mallen - Mozilla



Pablo Ruiz Picasso
Bouteille de Bass et guitare.

Paris. Fall/1912. Pastel, charcoal & ink on paper, 47,7 x 63,5 [62.5] cm. Douglas Cooper Collection, Churchlands Ltd. Z 11b:376, P II:817, DR:511; R:89.236

© Estate of Pablo Picasso/Artists Rights Society (ARS), New York
Larger On-Line Picasso Project Image Available for Consultation
[Visit the Picasso Research Center for detailed graphics](#)

Sale Location Christie's - New York
Date of Sale 9/2/05/11
Lot Number 24 (LL.)
Estimate \$700000 \$900000 \$770000
Lot Description:
 - Pablo Picasso (1881-1973) Bouteille de Bass et guitare signed on the reverse
 Picasso - pastel, charcoal and black ink on paper 18 1/2 x 25 in. (47 x 63.5 cm.) Drawn in Paris, winter, 1912-1913
Provenance
 - Galene Kahnweiler, Paris (acquired from the artist, 1913); sale, Hotel Drouot, Paris, sequestered Galene Kahnweiler stock, June 13-14, 1921 or Nov. 17-18, 1921 or May 7-8, 1923 Dr. Gottlieb Friedrich Reber, Lausanne (circa 1925) Douglas Cooper, London and Argilliers (1939)
Exhibited
 - Cambridge, Fogg Art Museum, Master Drawings by Picasso, Feb.-April, 1981, p. 122, no. 45 (illustrated, p. 123). The exhibition traveled to Chicago, The Art Institute, April-June, 1981 and Philadelphia, Museum of Art, July-Aug., 1981.
 - London, The Tate Gallery, The Essential Cubism, Braque, Picasso & their friends, 1907-1920, April-July, 1983, p. 236, no. 169 (illustrated in color, p. 237)
 - Basel, Kunstmuseum, Douglas Cooper and the Masters of Cubism, Nov., 1987-Jan., 1988, p. 213, no. 60 (illustrated in color, p. 150). The exhibition traveled to London, The Tate Gallery, Feb.-April, 1988; and Philadelphia, Museum of Art, June-July, 1988.

Selected HI projects in the CSDL

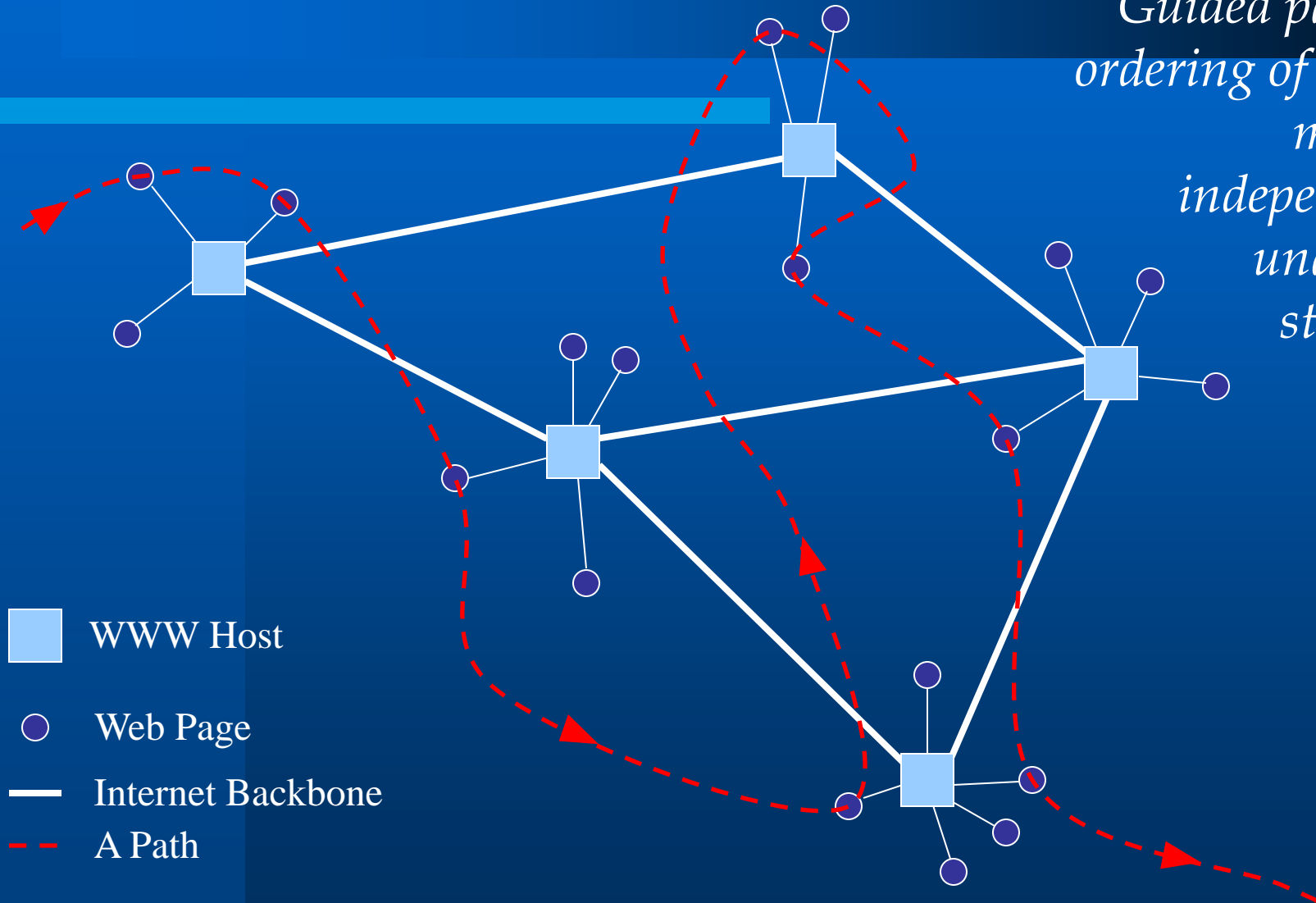
- **Digital collection development**
 - Cervantes Project
 - On-line Picasso project
- **Information technology research**
 - Guided paths and their maintenance
 - Timeline based visualizations

Guided Paths and their Maintenance

- Explores the applications of paths as an organizing mechanism in support of undergraduate education
- Explores tools that recognize problems with referenced resources in distributed digital libraries
- Drs. Richard Furuta and Frank Shipman
- <http://www.csdl.tamu.edu/walden/>

Guided paths

Guided path - An ordering of existing materials independent of underlying structure.



Controls

Annotation

Original Web page

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://walden.cs.tamu.edu/walden/Pserver?author=2374982&> Search Print

Home Bookmarks Red Hat, Inc. Red Hat Network Support Shop Products Training

BACK WALDEN'S PATHS NEXT


Cervantes Project

This page was created using the following URL:
<http://www.csd.tamu.edu/cervantes/english/texts.html>


The project maintains a collection of Cervantes' works. Two full-text, searchable, collections of Cervantes' complete works is available, as are facsimile image versions for the *Don Quijote*. We also provide English and Italian translations for the *Quijote*.

Cervantes Digital Library

- [Home](#)
- [Cervantes' Life](#)
- [Texts](#)
- [Bibliography](#)
- [Images](#)
- [Links](#)
- [Site Map](#)
- [Search](#)
- [Publications](#)
- [About The Cervantes Project](#)



[Menú en Español](#)








Cervantes Digital Library

Dr. Eduardo Urbina
Texas A&M University

Choose from a category of online texts below:

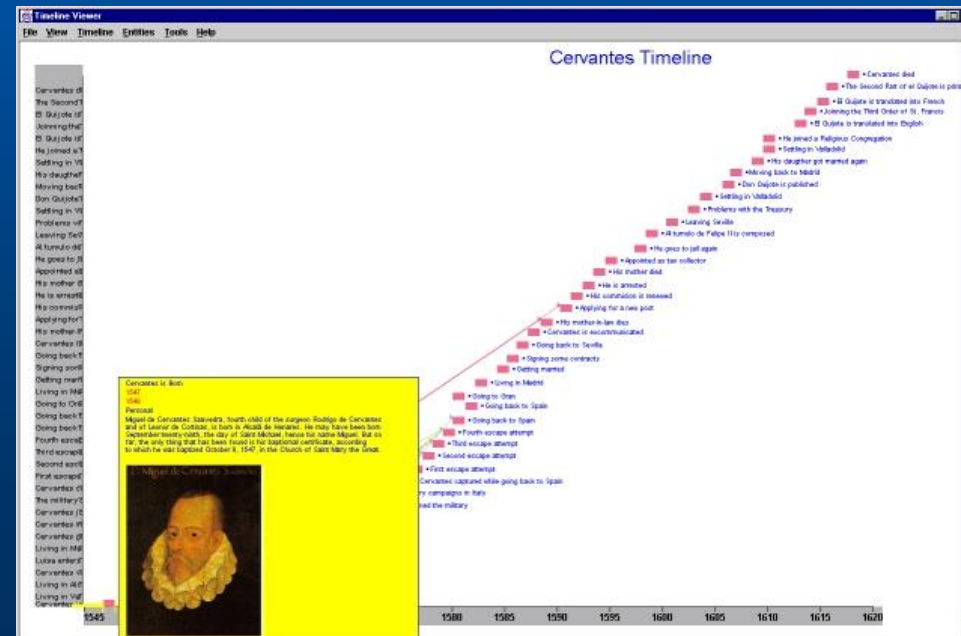
♦ Online Searchable Editions	♦ Browsable Editions
♦ Browsable Graphic Editions	♦ Translations
♦ References/ Reading Aids	

[About the Cervantes Digital Library \(CDL\)](#)

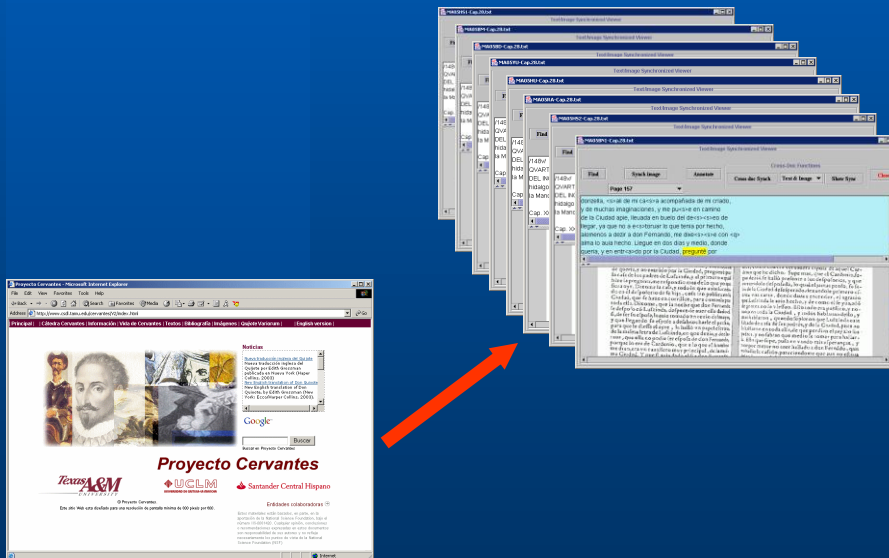






Timeline-based visualizations

- **Interactive timeline viewer (ItLv)**
 - ItLv is a timeline-based visualization tool that enables users to explore a repository of information
 - Attributes of the metadata are depicted in an X-Y coordinates display
 - Interactive options allow further analysis of the information
 - Animated series of images can be created
 - Carlos Monroy, CSDL
 - <http://www.cSDL.tamu.edu/~cmonroy/itlv>



Synergistic project development



Electronic *Variorum* Edition (EVE)

- Significant early editions of *Don Quixote* in facsimile and transcription

– 1605 and 1615 *princeps*

- 10 copies of 1605 *princeps*; similar number of 1615 *princeps*

- Over 30 copies of other key editions published between 1605 and 1637

- Two components: VERI and MVED

The screenshot displays the EVE interface for Don Quixote. The main window shows a facsimile of a manuscript page on the left and a transcription on the right. A red arrow points to a specific annotation in the transcription. Below the main text, there are several windows:

- Annotations attached to this text:** Shows 'Annotation: this is a typographical variant'.
- Details:** Shows 'Annotation: this is a typographical variant'.
- First as it appears in base text:** Shows 'co'.
- Summary of selected text:** Shows 'con'.
- Complete Variant List:** A table of variants with columns for page offset, variant ID, and the variant itself.

Page Offset	1605BEN	1605BEN1	1605BEN2	1605BEN3	1605BEN4	1605BEN5	1605BEN6	1605BEN7	1605BEN8
125	INBENOSO	INBENOSO	INBENOSO	INBENOSO	INBENOSO	INBENOSO	INBENOSO	INBENOSO	INBENOSO
133	Primer	Primer	Primer	Primer	Primer	Primer	Primer	Primer	Primer
135	EN Va	En va	En va	En va	En va	En va	En va	En va	En va
1615	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan
2370	co	co	co	co	co	co	co	co	co
2393	Regna	Regna	Regna	Regna	Regna	Regna	Regna	Regna	Regna
2183	Regi	Regi	Regi	Regi	Regi	Regi	Regi	Regi	Regi
2242	parcia	parcia	parcia	parcia	parcia	parcia	parcia	parcia	parcia
2242	traxon	traxon	traxon	traxon	traxon	traxon	traxon	traxon	traxon
2253	tilen	tilen	tilen	tilen	tilen	tilen	tilen	tilen	tilen
2325	l	l	l	l	l	l	l	l	l
23478	an	an	an	an	an	an	an	an	an
23828	-	-	-	-	-	-	-	-	-
23977	que	que	que	que	que	que	que	que	que
24167	co	co	co	co	co	co	co	co	co
24212	an	an	an	an	an	an	an	an	an

Virtual Edition Readers Interface (VERI)

- Browse multiple editions and copies
- Display text, page images, or both
- Synchronize textual transcription with page images
- View variants with editorial commentary

The screenshot displays the VERI interface with several overlapping windows. The main window shows a text editor with a document titled 'Principio 1605'. A secondary window displays a page image with a red circle highlighting a specific area of text. A third window shows a list of variants for a selected text segment, with columns for different editions and their corresponding text. A fourth window provides detailed information about the selected text, including its location in the document and its classification. The interface includes a search bar, a navigation pane, and a list of variants at the bottom.

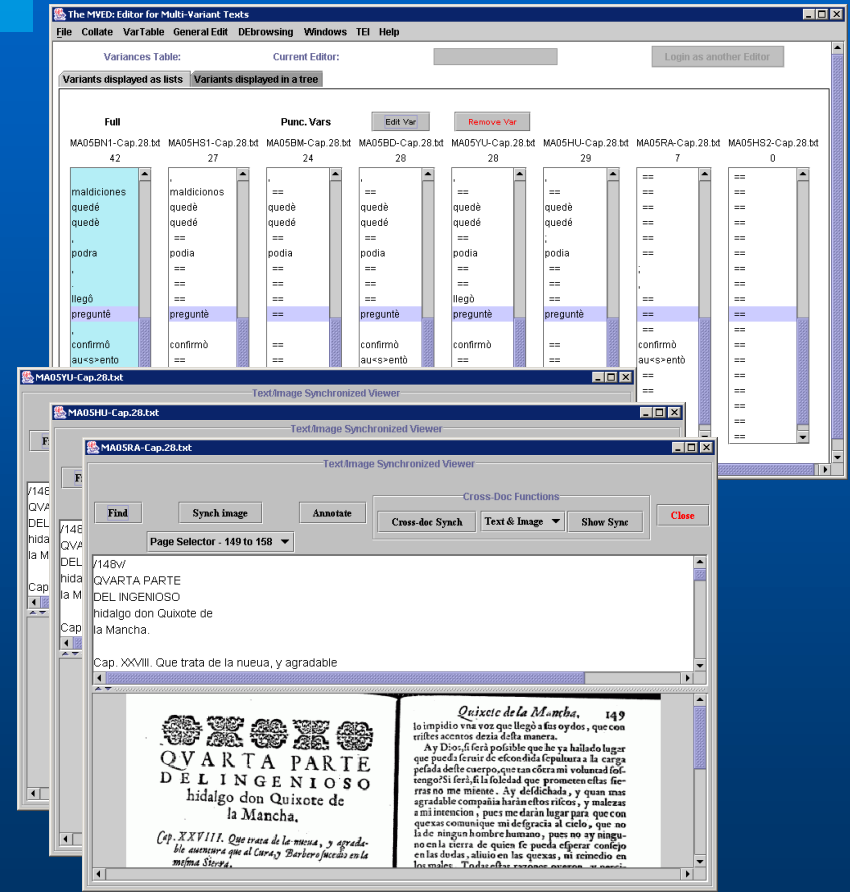
Annotations attached to: INGENOSO
Annotation: fin a a topographical remark
Classification for annotations: Other
Reference to: Other

Text as it appears in base text: co
Editions in: con
Category of selected text: spelling variants
Reference to: Other
Justification for edit: this is a topographical remark

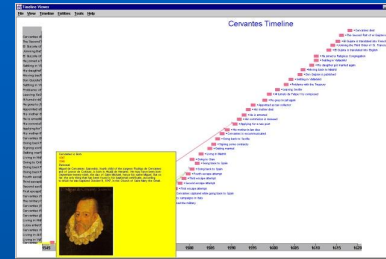
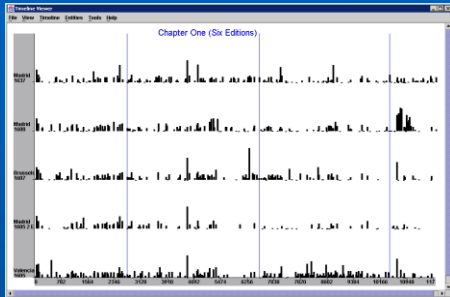
Page Offset	INGENOSO	MAARSI	MAARSM	MAARST	MAARSTU	MAARSTV	MAARSTW	MAARSTX	MAARSTY
125	INGENOSO	INGENOSO	INGENOSO	INGENOSO	INGENOSO	INGENOSO	INGENOSO	INGENOSO	INGENOSO
133	Panero	Panero	Panero	Panero	Panero	Panero	Panero	Panero	Panero
1335	EN Va	En va	En va	En va	En va	En va	En va	En va	En va
1615	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan	cochilan
2370	co	co	co	co	co	co	co	co	co
2393	Regna	Regna	Regna	Regna	Regna	Regna	Regna	Regna	Regna
21831	Regl	Regl	Regl	Regl	Regl	Regl	Regl	Regl	Regl
2242	parcia	parcia	parcia	parcia	parcia	parcia	parcia	parcia	parcia
22402	sraxos	sraxos	sraxos	sraxos	sraxos	sraxos	sraxos	sraxos	sraxos
22533	tilen	tilen	tilen	tilen	tilen	tilen	tilen	tilen	tilen
23255	l	l	l	l	l	l	l	l	l
23478	as	as	as	as	as	as	as	as	as
23828	-	-	-	-	-	-	-	-	-
23977	que	que	que	que	que	que	que	que	que
24167	co	co	co	co	co	co	co	co	co
24212	as	as	as	as	as	as	as	as	as

Multi-Variant Editor for Documents (MVED)

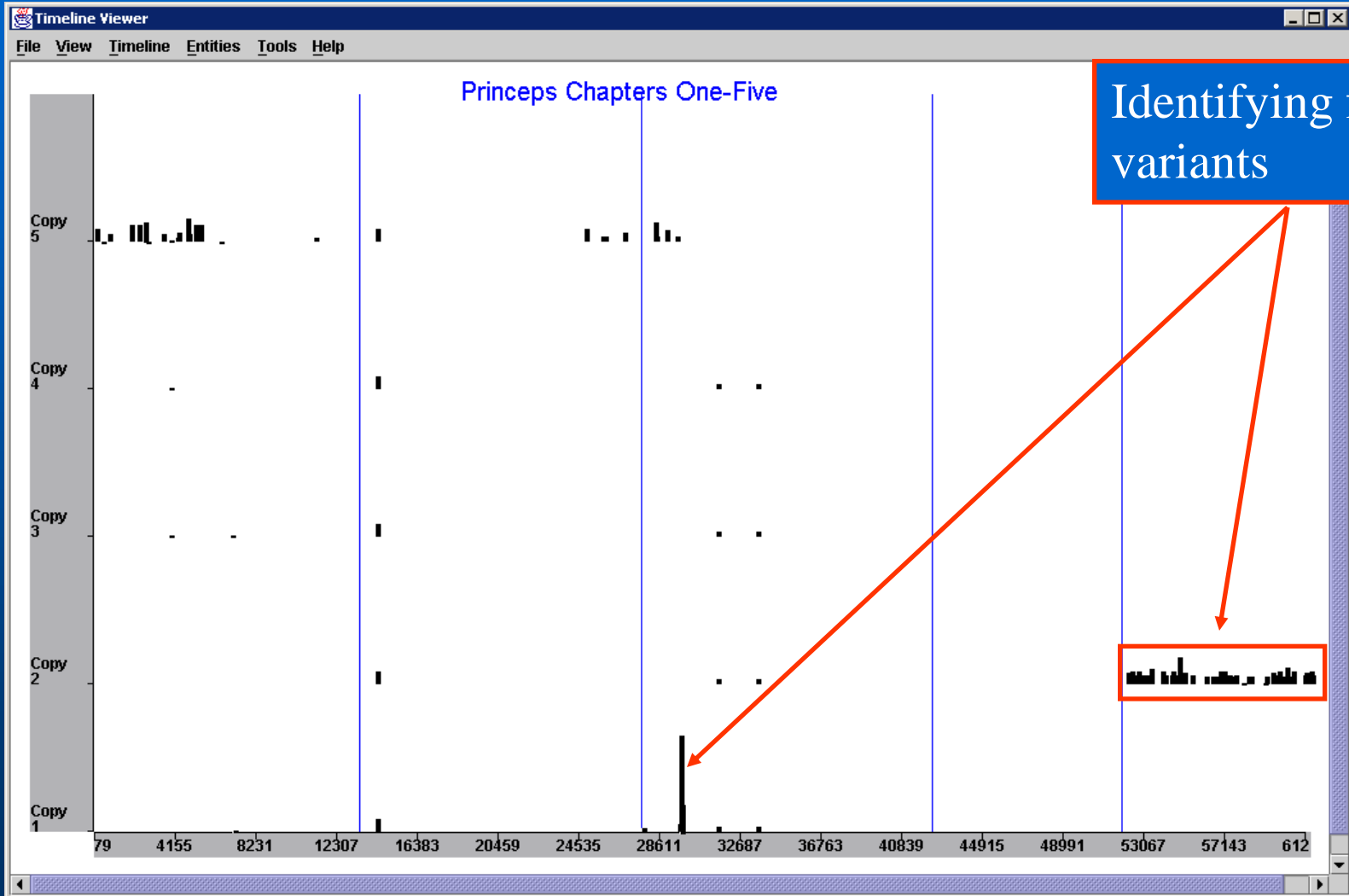
- Editing interface allows creation of an edition
- Interlinked text/facsimile representation of collection
- MVED identifies variants and allows their classification
- Supports inclusion of annotation, e.g., interpretative commentary
- Stand-alone application



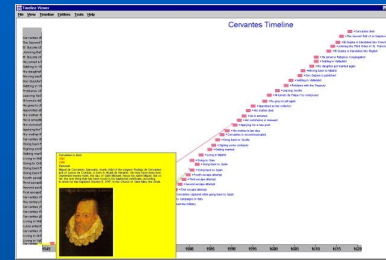
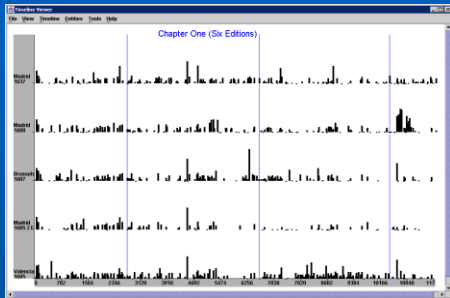
Synergistic project development



Analyzing copies of the same edition



Synergistic project development



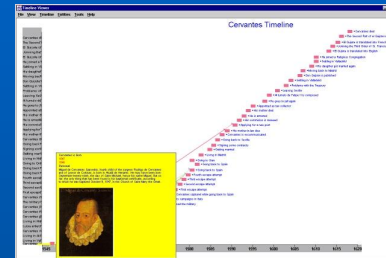
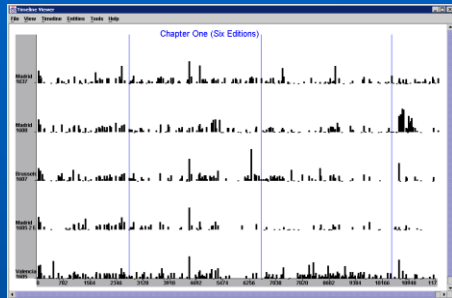
Textual iconography of *Don Quixote*

- **Cushing Library has acquired 405 editions of the Quixote published since 1620**
 - Over 800 volumes
 - Concentrated in 18th and 19th century (English, French, Spanish)
 - Currently, more than 4,000 images digitized from 74 editions



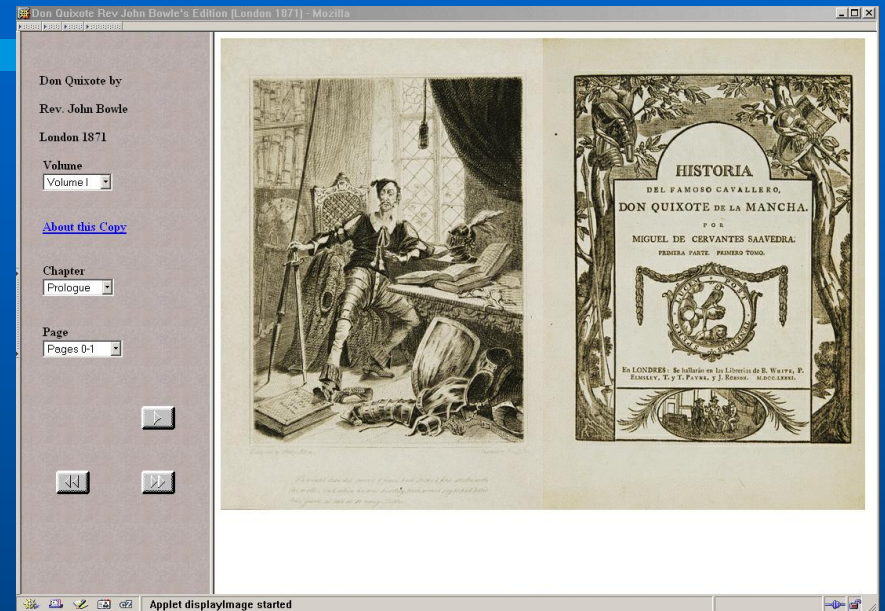


Synergistic project development



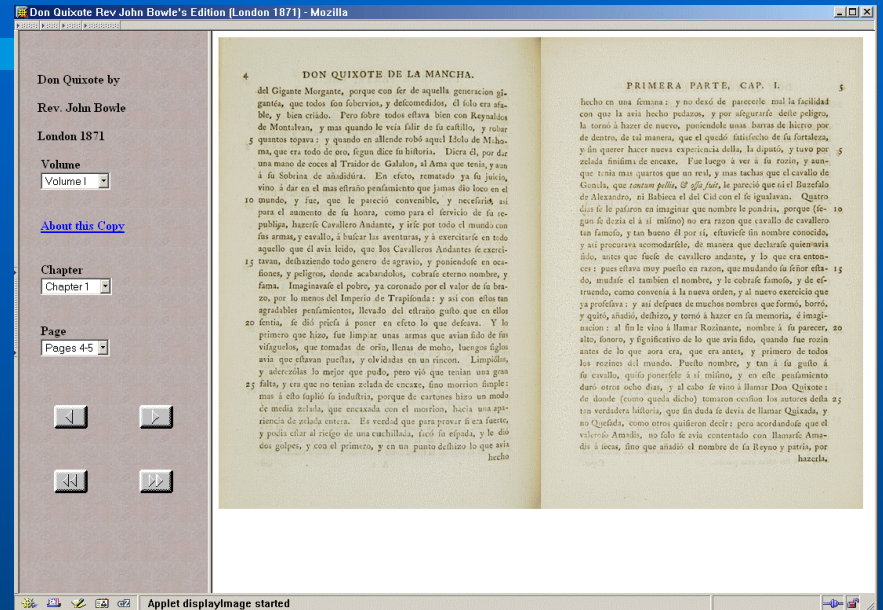
Bowle Edition

- Rev. John Bowle, 1781, London
- Electronic edition employs software used in the VERI
- Two presentations
 - Traditional book presentation
 - Combined book presentation



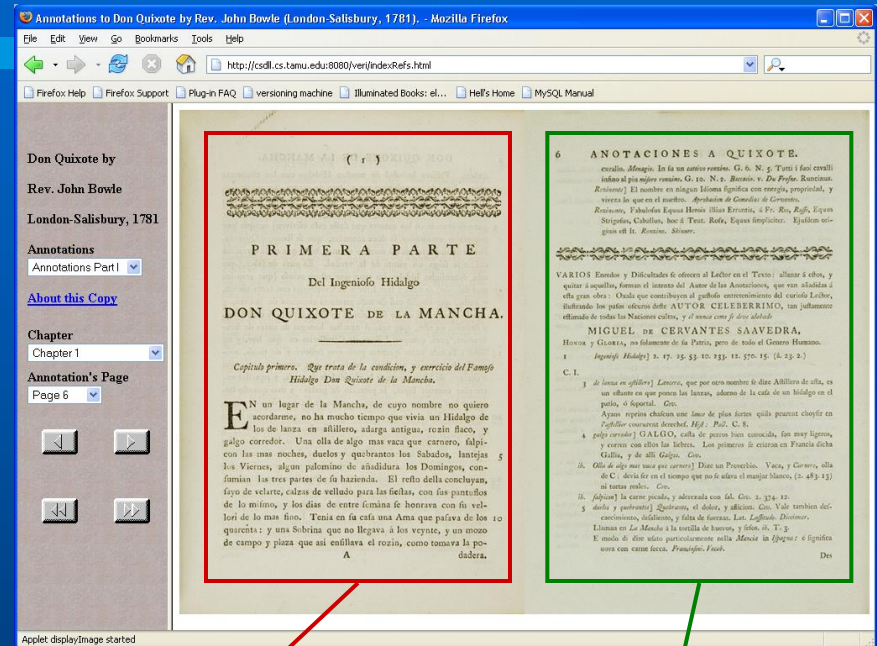
Bowle Edition

● Traditional book presentation



Bowle Edition

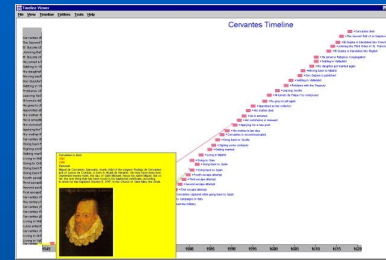
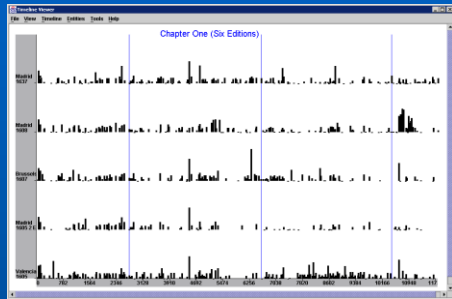
- Combined book presentation
- Brings annotations (from volume 3) along side the text (from volumes 1 and 2)



Chapter 1
Text
(vol. 1)

Chapter 1
Annotations
(vol. 3)

Synergistic project development





- BASE
- 1849SLM
- 1849H
- 1850S
- 1877S
- 1844S

[Show Copies](#)

"Smoke, Flame, and Ashes"

Mitchell, Donald Grant (pseud. Ik Marvel)

Page images have been included from the print version.

This electronic edition includes "Smoke, Flame, and Ashes," the first of four reveries that make up Donald Grant Mitchell's "Reveries of a Bachelor." "Smoke, Flame, and Ashes" was originally published as a sketch in the September, 1849 issue of "Southern Literary Messenger," and then was re-published in the October, 1850 issue of "Harper's New Monthly Magazine." This electronic edition, prepared for Prof. David Vander Meulen's Textual Editing Class, presents a faithful transcription of "Smoke, Flame, and Ashes" from the 1850 Scribner's edition of "Reveries of a Bachelor."

15

[I HAVE] got a quiet [farm-house] in the country, a very humble place to be sure, tenanted by a worthy enough man, of the old New-England stamp, where I sometimes go for a day or two in the [winter, to] look over the [farm-accounts,] and to see how the stock is thriving on the winter's keep. One side the door, as you enter from the porch, is a little parlor, scarce twelve feet by ten, with a [cosy looking] [fireplace--a] heavy oak [floor--a] couple of [arm chairs and a brown] table with carved lions' feet. Out of this room opens a little cabinet, only big enough for a broad bachelor bedstead, where I sleep upon feathers, and wake in the [morning, with] my eye upon a saucy [colored, lithographic] print of some fancy " [Bessy.] "

MitSmok Critical Edition - Microsoft Internet Explorer

File Edit View Favorites Tools Help Links »

BASE
 1849SLM
 1849H
 1850S
 1877S
 1844S

Show Copies

"Smoke, Flame, and Ashes"

Mitchell, Donald Grant (pseud. Ik Marvel)

Page images have been included

This electronic edition includes Mitchell's "Reveries of a Bachelor," September, 1849 issue of "South" "Harper's New Monthly Magazine." The Editing Class, presents a faithful "Reveries of a Bachelor."

[Close This Window](#)

1849SLM	arm chairs--a brown
1849H	arm-chairs--a brown
1850S	arm chairs and a brown
1877S	arm chairs and a brown
1844S	arm chairs, and a brown
BASE	arm chairs and a brown

[I HAVE] got a quiet [farm-hous] of the old New-England stamp, where I sometimes go for a day or two in the [winter, to] look over the [farm-accounts,] and to see how the stock is thriving on the winter's keep. One side the door, as you enter from the porch, is a little parlor, scarce twelve feet by ten, with a [cosy looking] [fireplace--a] heavy oak [floor--a] couple of [arm chairs and a brown] table with carved lions' feet. Out of this room opens a little cabinet, only big enough for a broad bachelor bedstead, where I sleep upon feathers, and wake in the [morning, with] my eye upon a saucy [colored, lithographic] print of some fancy " [Bessy.] "

Done Internet

- BASE
- 1849SLM
- 1849H
- 1850S
- 1877S
- 1844S

"Smoke, Flame, and Ashes"

Mitchell, Donald Grant (pseud. Ik Marvel)

Page images have been included from the print version.

This electronic edition includes "Smoke, Flame, and Ashes," the first of four reveries that make up Donald Grant Mitchell's "Reveries of a Bachelor." "Smoke, Flame, and Ashes" was originally published as a sketch in the September, 1849 issue of "Southern Literary Messenger," and then was re-published in the October, 1850 issue of "Harper's New Monthly Magazine." This electronic edition, prepared for Prof. David Vander Meulen's Textual Editing Class, presents a faithful transcription of "Smoke, Flame, and Ashes" from the 1850 Scribner's edition of "Reveries of a Bachelor."

15

[I HAVE] got a quiet [farmhouse] [farm-house] in the country, a very humble place to be sure, tenanted by a worthy enough man, of the old New-England stamp, where I sometimes go for a day or two in the [winter, to] look over the [farm accounts,] [farm-accounts,] and to see how the stock is thriving on the winter's keep. One side the door, as you enter from the porch, is a little parlor, scarce twelve feet by ten, with a [cosy-looking] [cosy looking] [fireplace, a] [fireplace--a] heavy oak [floor, a] [floor--a] couple of [arm chairs, and a brown] [arm chairs and a brown] table with carved lions' feet. Out of this room opens a little cabinet, only big enough for a broad bachelor bedstead, where I sleep upon feathers, and wake in the [morning with] [morning, with] my eye upon a saucy [colored lithographic] [colored, lithographic] print of some fancy " [Bessie] [Bessy.] "

- BASE
- 1849SLM
- 1849H
- 1850S
- 1877S
- 1844S

"Smoke, Flame, and Ashes"

Mitchell, Donald Grant (pseud. Ik Marvel)

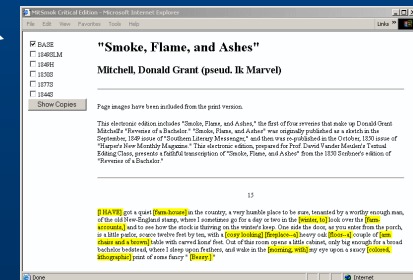
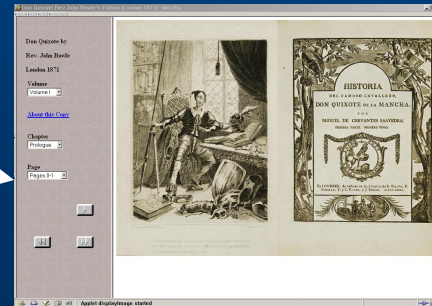
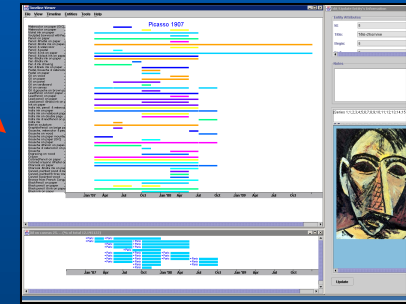
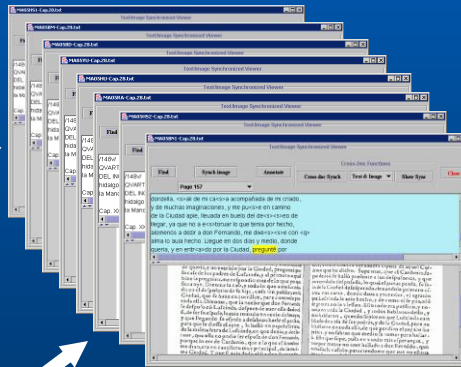
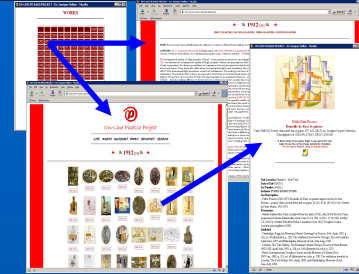
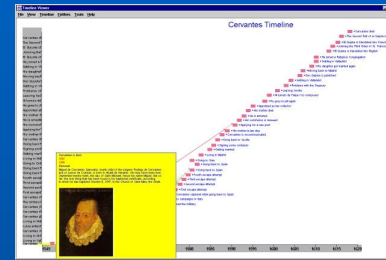
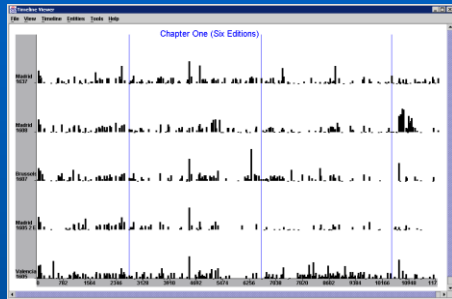
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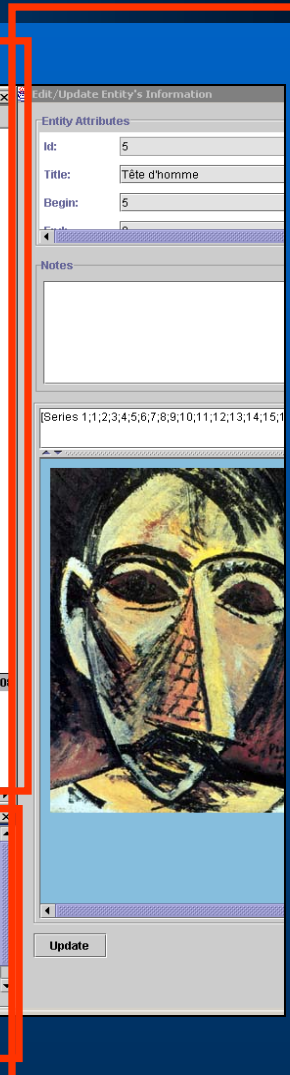
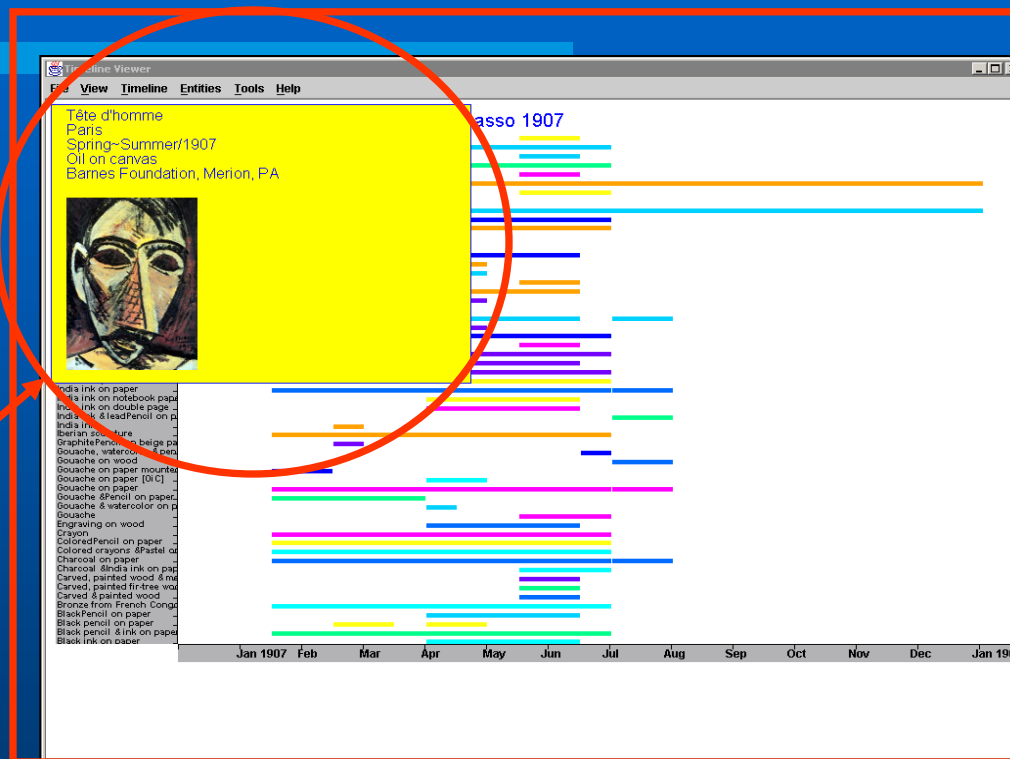
Synergistic project development



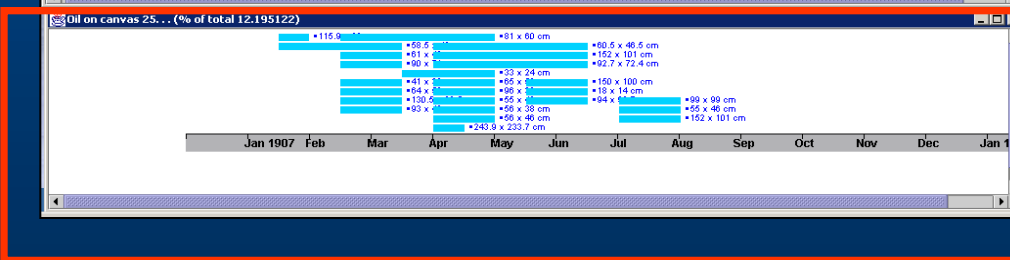
Visualizing and Exploring Picasso's World

Overview

2nd level of detail



3rd level of detail



1st level of detail

Analyzing Picasso's World

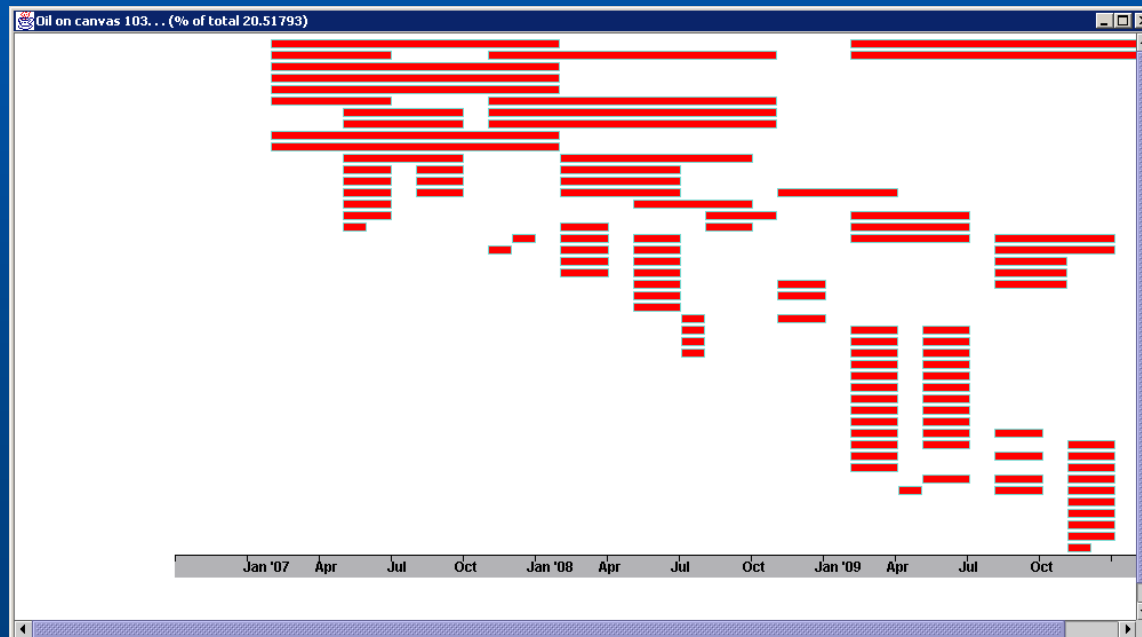
What kind of artworks did he create during any given period of time?

Was there any trend in which he painted in two different decades?

What kind of techniques did he use the most in any given year or season?

Was he more productive during a particular season: summer, fall, spring, or winter?

Discovering correlations of Picasso's series in different periods.



Concluding remarks

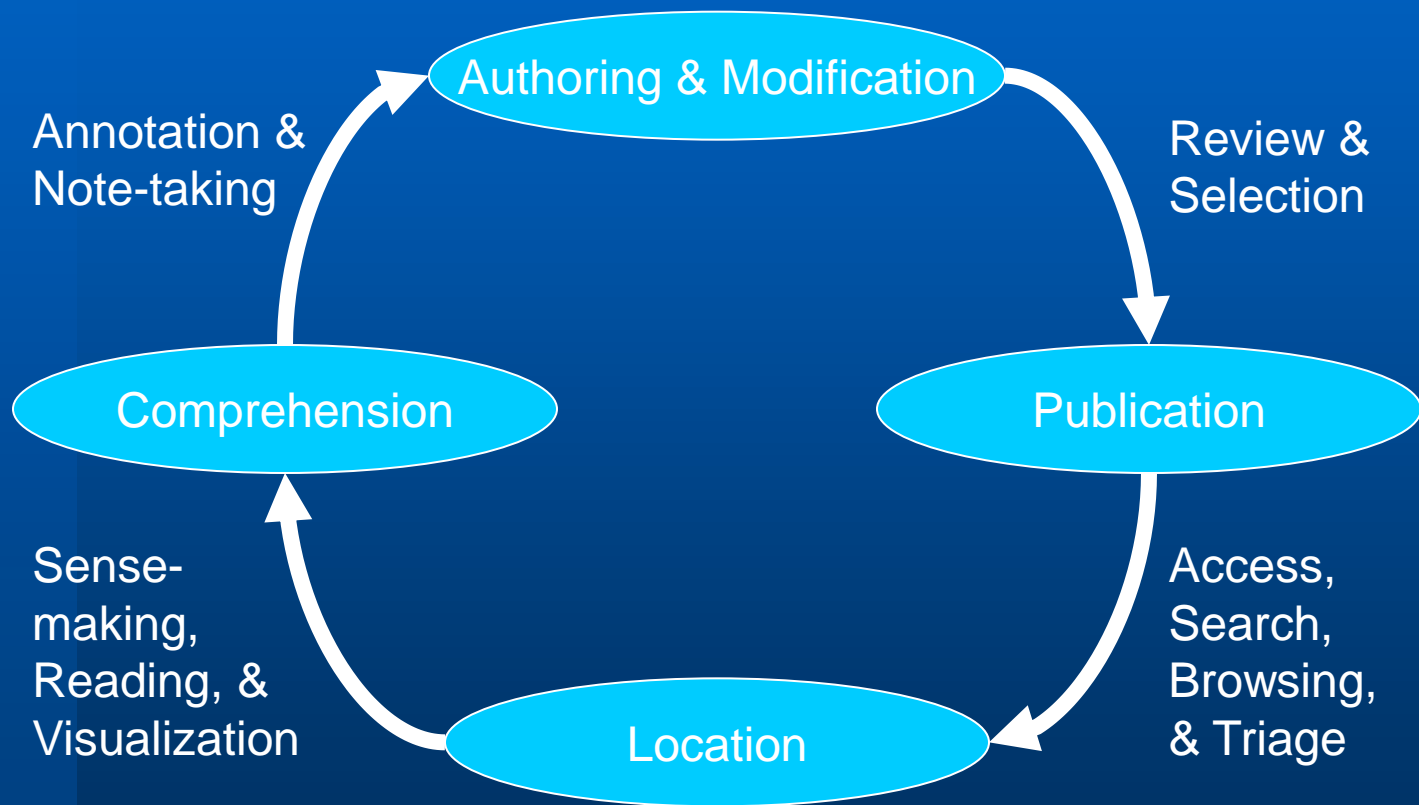
- We have presented a quick overview of some of the projects in the Center for the Study of Digital Libraries
- With the widespread availability of the Internet and the Web, information technology is affecting many areas of life
- Highly interdisciplinary problems need highly interdisciplinary solutions
- Cooperative efforts and collaboration among academic disciplines can yield results of interest to both, of widespread service, and with potential for making fundamental changes to the ways we work and communicate.

For more information

<http://www.csdl.tamu.edu/>

More information about CSDL research

Information Lifecycle



Common Research Themes

- **Adaptive Information Delivery**
Contextualizing the presentation of information
- **Information Visualization**
Generating views containing a variety of content
- **Collection Creation & Maintenance**
Supporting resource selection and upkeep, metadata authoring
- **Time/History in Interfaces**
Temporal qualities in content and its presentation

Time in Content

- **Forms of time-based information.**
 - Audio/video information
 - Documents that include edit history
 - Historical collections
 - Simulations
- **Authoring, publishing, locating, and presenting this content requires tools that let users cope with time.**
 - VKB project spaces ←
 - Cervantes Quixote Variorum

Visual Knowledge Builder (VKB): Supporting Personal Collections

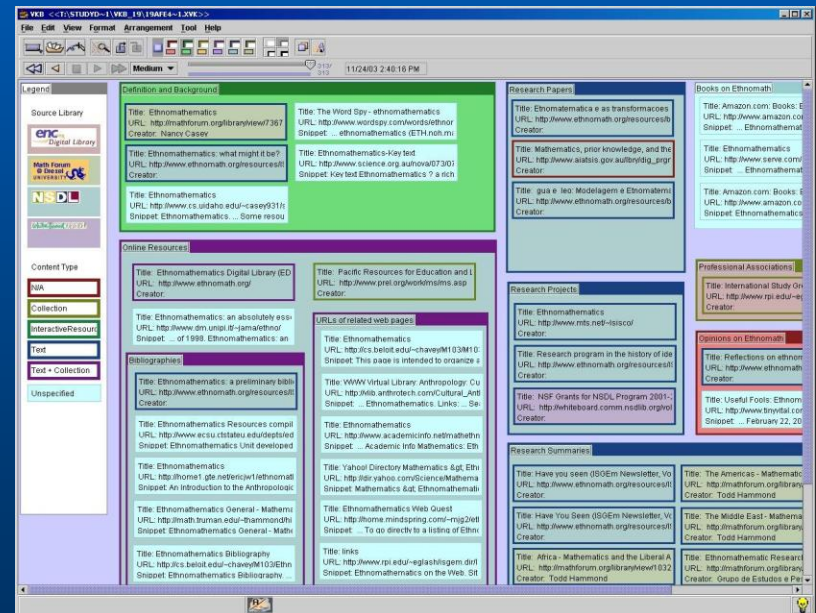
Frank Shipman

- **Problem: information tasks require a combination of location, comprehension, and modification**
 - Current systems have emphasized the location of information (e.g. search engines, portals)
 - There are few tools supporting the activity of comprehending and modifying the found content
- **Approach: Spatial hypertext**
 - Spatial hypertext expresses inter-document relationships via visual and spatial cues
 - Users develop personal visual languages during the course of their activities
 - The system can recognize parts of the visual language and interpretation to support the user's task.

Expressing Relations Visually

VKB provides:

- A hierarchy of two-dimensional workspaces called collections for placing information
- Easy manipulation of visual properties of information
- Information objects pointing to external content
- Attribute/value pairs for attaching metadata



Experience with VKB Use

Walden's Paths
Center for the Study of Digital Libraries
Texas A&M University

To Do List

Real Soon

- study data analysis
- accessibility of Web links
- internationalization
- AT to show page in browser
- AT to read path from server
- bug fixes
- integration of visual redesign
- integrate presentation mode

Soon

- Maintenance server
- advanced maintenance features
- authoring tool distrib
- support requests for authoring tool
- WP distribution

Paper topics -- areas for work

- Maintenance Tool Potential Papers
- Modifications to algorithms & comparison to prior work
- Maintenance tool -- supporting dealing with changes for authors
- Educational Experiences
- Local teachers

HT 2001 Due: Feb. 16

Server e

Project Management

VKB <<H:\shipman\Work\Visual Knowledge Builder\ht2.vkb>>

File Edit View Symbol Color Tool Help

Accepted

Papers 1: Reading and Interaction	Papers 2: Links and Relations	Papers 3: OHS and Infrastructure	Papers 4: Open
The Pleasure Principle: Immersion Douglas, Hargadon	Arguments in Hypertext Carter	Integrating Infrastructure: Enabling L Anderson, Och, King, Osborne	FOHM: A Fundan Millard, Moreau,
Towards an Organic Hypertext Kendall, Rety	A Pragmatics of Links Tosta	Investigating Link service Infrastruct DeRoure, Walker, Carr	Naming as a Fu Tzagarakis, Reic
Hypertext Interaction Revisited Golovchinsky, Marshall	Bernstein Calvi	Halsey, Anderson Bompani, Vitali	Hypermedia in tr Mogensen, Gron
Papers 5: Hypertext Design	Papers 6: Hypertext and Education	Papers 7: Multimedia Issues	Papers 8: Clu
Ontology-Supported and Ontology-D Crampes	Linking by Interacting: A Paradigm fo Pimentel, Abowd	The Travails of Visually Impaired We Goble, Harper, Stevens	Organizing To Mukherjea
Relationship-based Analysis Yoo, Bieber	Reusable Hypertext Structures for Di Spalter, Simpson	OvalTime: Automated Hyperlink Anch Smith, Stotts	Defining Logic Li, Kolak, Vu, T
		Generating Presentation Constraints Rutledge, Bailey, ...	Clustering Hy Modha, Spang

Conference Planning

VKB <<D:\OLDLAP-1\Work\LAPTOP-1\Work\FAN-SP-1.VKB>>

File Edit View Format Arrangement Tool Help

Outline

- What is "fantasy sports?"
- History
- Number of participants
- How has computer changed game?
- Natural for collecting stats/computing scores
- Removes need for social organization
- low overhead --> low commitment
- Source materials
- good resource: <http://www.fantasysportspa.com/articles.html>
- from: foxsports.com -- 1.6 Million unique users
- from: fantasyspc.com
- from: <http://fantasyspc.com/page?page=whatis.html>

How different from other

- Connections to real world
- based on real player
- winning requires up-t
- impacts perspective
- A new framework
- existing notions of game

Table 1. real action virtual action

player control (ergodic/engaging)	playing sports	playing games (role playing)
external control (not ergodic, immersive?)	watching sports	observing game playing

The Presentation

Introduction	History	Rhetoric of fanta
there are many discussions about the real and virtual world	start of rollerise baseball	big audience --> b
e.g. do people become less socialized when in person?	paper and pencil games	power and contr
1st academic MUD discussion in 1991	among colleagues / friends	show your skill
	community results (trophy)	better than real c

Fantasy Games: Rhetoric, Action, Communities, and Effects
Fantasy Sports: Blending the Real and Virtual

I turn on the television to catch some of the action for two teams playing a game where I don't care who wins. I sit on my couch hoping the pass will be incomplete but the running back for the same team will break through the defense. Why? Fantasy football -- because the running back is on my fantasy football team

Writing Papers & Creating Presentations

Time in Presentation

- Time-based presentations of static content can aid information discovery
 - [combinFormation information spaces](#) ←
 - [Collection Understanding tools](#)
- Time can be used to structure information delivery and allow collaboration
 - [EFG/ICT groupware](#)
 - [Trellis/caT presentations](#)

combinFormation

Andruid Kerne





Browsable Graphic from a ca
Editions (image scans texts be
of text)

[Fred Jehle](#) of
Indiana-Purdue

Uni
rece
support
College
Arts, T
Univer

[Centro](#)
[Cervantes](#)

[Don Quixote Dictionary](#)
Compiled by Tom
Lathrop

[Center for the
Study of
Digital
Libraries
\(CSDL\)](#) (part
of the TAMU
Engineering
Program)

[Men;
en
Espa
ol](#)

The CDL is a digital library of Cervantes's complete works in several versions (*princeps*, old-spelling, modernized, English) along with the interfaces, hypertext links, and search engines to facilitate their use at multiple levels.

[Men;
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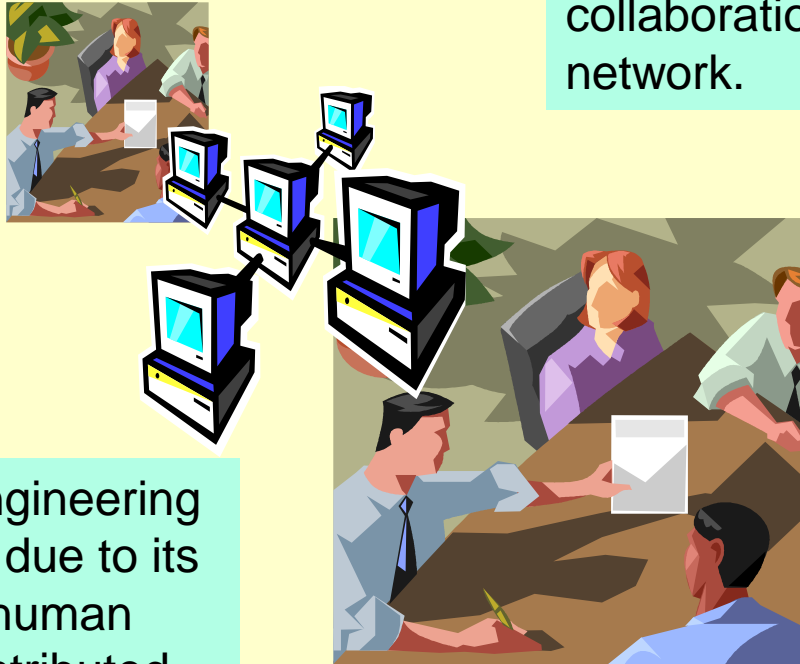


The Cervantes Digital Library is a project developed in collaboration with the [Center for the Study of Digital Libraries](#) and Prof.

Time in Presentation

- Time-based presentations of static content can aid information discovery
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We collaborate in real life and should not be separated in the Internet age. Groupware aims to facilitate people collaboration over a computer network.



Groupware engineering is challenging due to its emphasis on human factors in a distributed system. Our group addresses groupware engineering challenges from three related directions.

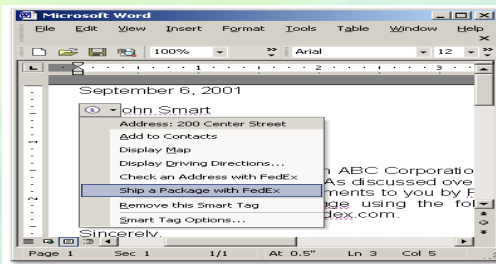
**Collaboration Modeling
and Infrastructure**

Du Li

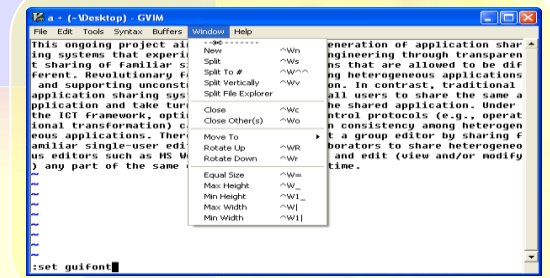
Specialized groupware applications generally lag behind in features with single-user applications. Users are often not motivated to abandon familiar single-user applications for groupware features that are less frequently used.

ICT: Intelligent Collaboration Transparency

Microsoft Word



GVim



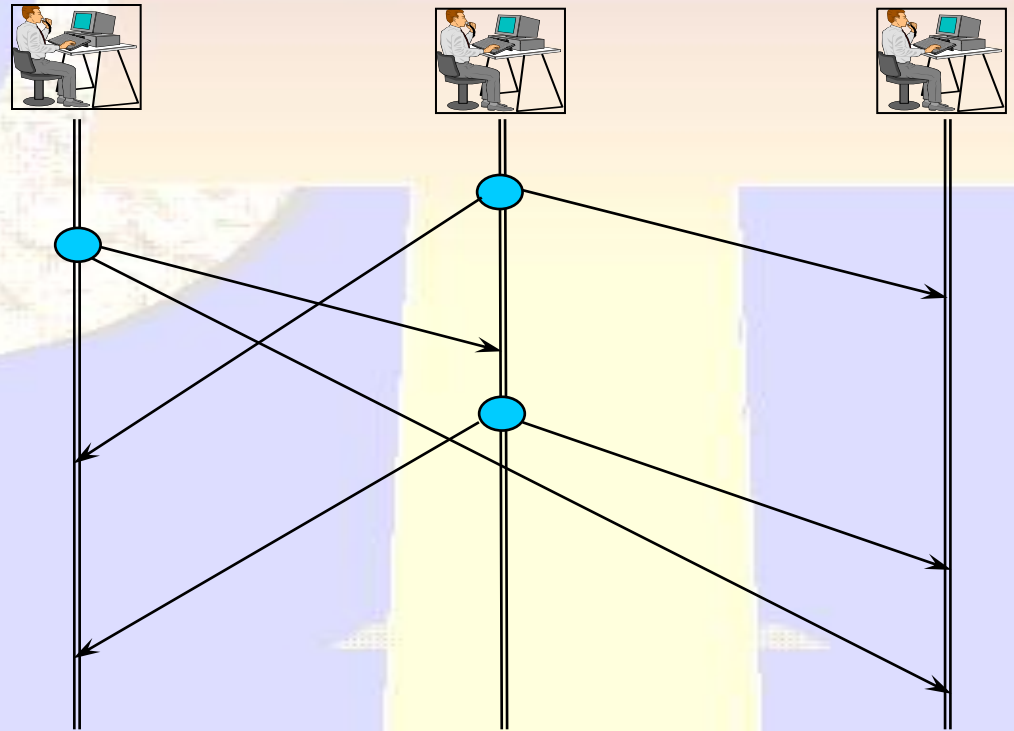
The ICT project aims to develop a new generation of application sharing systems that allow users to share familiar single-user applications for cooperative work without modifying the original programs.

The application sharing infrastructure incrementally formalizes application and collaboration knowledge such that interoperation between heterogeneous single-user applications is possible and a wide range of collaboration protocols can be experimented.

Group editors are a model of interactive groupware. They allow geographically dispersed users to edit a shared document at the same time. Operational transformation is a standard method for consistency maintenance and group undo in group editors.

Interactive groupware applications have special requirements for high responsiveness, high concurrency, real-time awareness, non-blocking and unconstrained interaction, in addition to consistency.

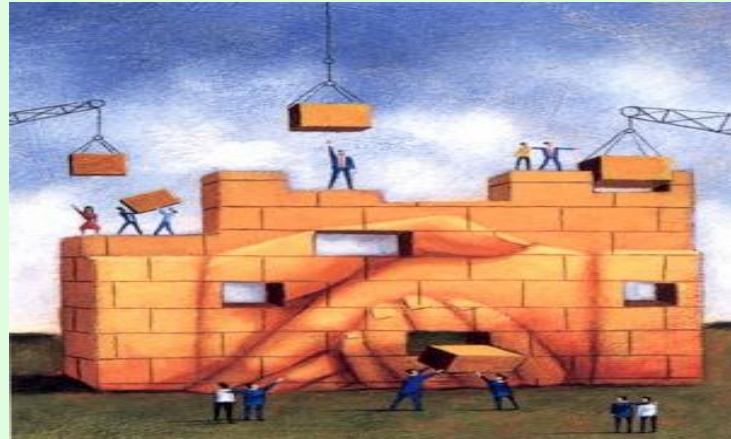
We develop a suite of novel OT algorithms to address the consistency, scalability, flexibility, and usability issues in interactive groupware. Specific algorithms include state difference transformation, time interval based operational transformation, and regional undo. We also extend and apply OT algorithms in non-groupware domains such as databases.



OT: Operational Transformation

EFG: Evolvable Framework & Groupware

Social collaboration is dynamic and evolutionary. Different groups have different protocols for collaboration. The way people work together evolves over time as users gain more experience with the system.



Groupware must be highly customizable and evolvable. For rapidly changing domains and cooperative tasks where requirements emerge and develop during actual use, some aspects of the evolution must be handled by end users. At the same time, the system must synergistically adapt to the behavior of individual users and the group as a whole.

The EFG project explores a component based approach for developing evolvable groupware. It provides services and user interfaces to support the dynamic evolution of various aspects of the system: Some collaboration protocols are specified and evolved by end users. Groupware features are dynamically attached to third-party, single-user components at run time without modifying source code.