



Enterprise Collaboration and Innovation Support Systems (GE/IE 498 ECI): The Web with a Human Spin

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Where did we leave it?

- Reviewed models of human innovation and creativity
- We present an evolutionary analogy that:
 - Allow us to fit a wide range of creativity modes
 - Allow us to share the same model for different strata
 - Individuals
 - Groups
 - Social networks
- Left some brainstorming on the web for the project



What's the plan for today?

- A very biased review of the web
- The tipping point
- The old ways
- An emerging ecology
- Review the landscape



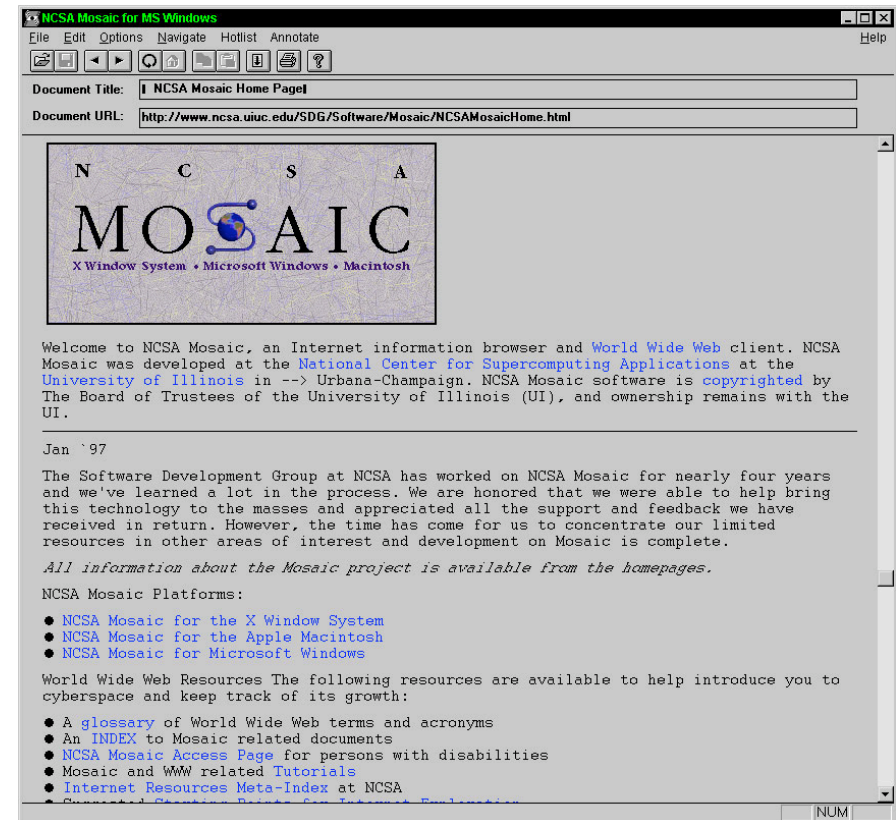
The early times

- Sharing data
- Sharing information
- Allow to communicate computers
- Until mid '90 main adopters were
 - Government related
 - Education related
 - Technology-hard-core oriented audiences
 - Entrepreneurs
- Struggle to figure out the reason for adopting such costly technology



Incubating the tipping point

- Mosaic did:
 - Become the first popular browser
 - Establish a new medium
 - Allow users to navigate to a URL and browse all sort of information
 - Text
 - Images
 - Follow links to other sources
 - Make remote access easy





The tipping point

- A simple piece of HTML code

```
<form method="post" action="foo.cgi">  
  Name: <input name="name"><br>  
  Age: <input name="name"><br>  
  <input type="submit" value="Submit">  
</form>
```



And the browser rendered...

Name:

Age:



After the browser

- Most of this services have moved into browsable services
- It has become common (powerful)
- People started to explore other non technical usages
- One driving force: Use a computer like you may use a toaster (David Norman (1999) “*The invisible computer*”, MIT press)
- The focus silently shifted from technology centered to people centered



Creativity and Innovation?

- Very volatile market
- You do not last long doing one thing
 - Google (Search, email, photos, videos, browser-based office tools...)
 - Microsoft (Old tools with new facades...)
 - ...
- The web beast:
 - Always changing technology
 - New opportunities
 - Short development times
 - Not even 15 minutes of fame
- Who is Google afraid of?
- Do not get confused. Who is going to use anything you put out there?



The people-centered technology age

- Human activities
 - Talk
 - Search
 - Share
 - Protest
 - Express themselves
 - Lazy
 - ...
- Bend technology to make those activities easier
- Do you know the science behind a toaster?



Blogs

- Publishing model
 - Personal
 - Social
 - Professional
- Post updates
- Simple access to create sites without technical knowledge
- Allow certain degree of customization (**expression**)
- Simple management
- Integrate discussion forums
- The architecture does not require latest technology

the DISCUS project | The Distributed Innovation and Scalable Collaboration in Uncertain Settings project

Analyzing Trends in the Blogosphere Using Human-Centered Analysis and Visualization Tools

Xavier Llorà, Noriko Imafuji Yasui, Michael Welge, David E. Goldberg (2006)
 Illinois Technical Report No. 2006026 Link to the PDF.
 The blogosphere is a valuable source of information. From simple topic analysis in the blogosphere—what's hot—to harvesting and analyzing valuable market trends—what product and features are suggested—require a tight integration of computer- and human-based analysis capabilities. Computers [...]

Posted at 12pm on 12/13/06 | no comments | Filed Under: Publications | read on [»](#)

Delineating Topic and Discussant Transitions in Online Collaborative Environments

Noriko Imafuji Yasui, Xavier Llorà, David E. Goldberg, Yuichi Washida and Hiroshi Tamura (2006)
 Illinois Technical Report No. 2006025 Link to the PDF.
 In this paper, we propose some methodologies for delineating topic and discussant transitions in online collaborative environments, more precisely, focus group discussions for product conceptualization. First, we propose KEE (Key Elements Extraction) algorithm, an [...]

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<p>About</p> <p>Modern times challenge organizations and their leaders to adapt quickly and well to complex, fast-moving circumstances under trying conditions. Data sources are numerous, distributed, and contradictory. Problems are difficult to detect and diagnose, widely dispersed, and constantly changing. Knowledge sources and expertise are distributed, of varying quality, and difficult to integrate. Moreover, the tools [...]</p> <p>read on</p>	<p>Recently</p> <p>12.13 Analyzing Trends in the Blogosphere Using Human-Centered Analysis and Visualization Tools</p> <p>12.13 Delineating Topic and Discussant Transitions in Online Collaborative Environments</p> <p>12.13 Adaptable Extraction of Key Elements from Weblogs</p> <p>11.29 Human-Centered Analysis and Visualization Tools for the Blogosphere</p> <p>11.29 The new DISCUS site is up</p> <p>10.15 Combating User Fatigue and Contradictions in Subjective-Based Optimization Schemes</p> <p>3.1 Innovation and Creativity Support via Chance Discovery, Genetic algorithms, and Data Mining</p>	<p>Pages</p> <p>About</p> <p>SAINT</p> <p>Demos</p> <p>People</p> <p>Sponsors</p> <p>Categories</p> <p>Chance discovery (rss) (1)</p> <p>Demos and tools (rss) (1)</p> <p>Human-centered computing (rss) (2)</p> <p>News (rss) (1)</p> <p>Presentations (rss) (9)</p>
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the DISCUS project (View site) Howdy, Xavier. (Sign Out, My Account)

Dashboard Write Manage **Links** Presentation Plugins Users Options Import

Manage Links Add Link Link Categories Import Links

Show links in category: Order by:

Name	URI	Category	rel	Image	Visible	Action
Automated Learning Group Description: Automated Learning Group	sig.ncsa.uiuc.edu	Groups		No	Yes	Edit Delete <input type="checkbox"/>
Illinois Genetic Algorithms Lab Description: Illinois Genetic Algorithms Laboratory	www-illgal.ge.uiuc.edu	Groups		No	Yes	Edit Delete <input type="checkbox"/>
LINK Alliance Description: The LINK Alliance	ui-link.org	Groups		No	Yes	Edit Delete <input type="checkbox"/>
University of Illinois at Urbana-Champaign Description: University of Illinois at Urbana-Champaign	uiuc.edu	Groups		No	Yes	Edit Delete <input type="checkbox"/>

Manage Multiple Links:
 Use the checkboxes on the right to select multiple links and choose an action below:
 Assign ownership to: Move to category: [Toggle Checkboxes](#)

WORDPRESS



Wikis

- Collaborative content generation
- Knowledge repositories
- Give structure to a particular topic/domain
- Simple writing, editing, publishing, and management
- Quest for universal access to knowledge
- Easy access (curiosity and education)

Sign in / create account

article discussion view source history

Your continued donations keep Wikipedia running!

Wiki

From Wikipedia, the free encyclopedia

For other uses, see *Wiki (disambiguation)*.
Talk page redirects here. For information about talk pages on Wikipedia, see *Help:Talk page* and the *talk page guidelines*.

A **wiki** (IPA: [wɪ.ki] <WICK-ee> or [wi:.ki] <WEE-kee>^[1]) is a **website** that allows the visitors themselves to easily add, remove, and otherwise **edit** and change available content, typically without the need for registration. This ease of interaction and operation makes a wiki an effective tool for mass **collaborative authoring**. The term wiki also can refer to the **collaborative software** itself (**wiki engine**) that facilitates the operation of such a Web site, or to certain specific wiki sites, including the **computer science** site (the original wiki) **WikiWikiWeb** and on-line encyclopedias such as **Wikipedia**.

Look up *Wiki* in Wiktionary, the free dictionary.

Contents [hide]

- History
- Key characteristics
 - Pages and editing
 - Linking and creating pages
 - Searching
 - Server-side versus client-side wiki
 - Web-based versus peer-to-peer
- Controlling changes
- Vandalism
- Wiki communities
- Wikis and content management systems
- See also
- Notes
- References
- External links

History



Social networking sites

- Your friends anywhere
- Except hanging out, you can do most of the things you would do with them
- Explore your networking skill
- The architecture does not require latest technology
- Very simple interface
(expression and social behavior)
- Does any one remember the Facebook riot?





What will we do in the next lecture?

- Get our hands dirty and cover the basic notions of web applications
 - Architecture
 - HTTP
 - HTML
 - Requests and responses
 - A simple example of a web app



Something to think about

- Read David Norman's chapter.
- **Homework:** Post your critical review (no more than 1,000 words) to the DISCUS Communities site