Mediawikis for research, teaching and learning

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No significant difference

Some difference

- Structured designs (Kirschner et al. 2006)
- Teacher quality (many factors)
- Projects controlled by 1-7 teachers (many EdMedia papers)
- Infrastructure (affordances)
Affordances
....the bottom line

(Clark, Kozma, etc.).

Slower/ cumbersome: e-learning systems, workflow systems

Faster / easier
Street technology
→ Wikis
→ Mediawikis (Wikipedia tech)

Anything goes (¬ media hyp.)
Evolution of (my) technology-enhanced teaching infrastructure

Evolution of TEL

- focus on production & sharing
- focus on control
- tied to research...
### Mediawiki case studies

<table>
<thead>
<tr>
<th>Name</th>
<th>Teachers</th>
<th>Students</th>
<th>Other</th>
<th>Purpose</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edutechwiki/en</td>
<td>1 + guests</td>
<td>edutech/CS</td>
<td>some</td>
<td>multi</td>
<td>2005 -</td>
</tr>
<tr>
<td>Edutechwiki/fr</td>
<td>3</td>
<td>edutech</td>
<td>-</td>
<td>multi</td>
<td>2005 -</td>
</tr>
<tr>
<td>DeWiki</td>
<td>1 + guests</td>
<td>education</td>
<td>-</td>
<td>teaching</td>
<td>2006 -</td>
</tr>
<tr>
<td>Apaches</td>
<td>-</td>
<td>education</td>
<td>some</td>
<td>community</td>
<td>1 yr</td>
</tr>
<tr>
<td>Iris</td>
<td>-</td>
<td>-</td>
<td>some</td>
<td>community</td>
<td>2010-</td>
</tr>
<tr>
<td>Bioroussso</td>
<td>2</td>
<td>highschool</td>
<td>-</td>
<td>teaching</td>
<td>2006</td>
</tr>
<tr>
<td>Chimiorousso</td>
<td>2</td>
<td>highschool</td>
<td>-</td>
<td>teaching</td>
<td>2011</td>
</tr>
</tbody>
</table>

...a set of design experiments, over a longer time span allowing to test where using a Mediawiki makes sense and how these should be configured.

- A shared note taking, literature review and writing-to-learn environment

Knowledge communities (Bereiter and Scardamaglia)

Integrated scholarship (Boyer, Gardner)
# Case study 1: EdutechWiki/en+fr: Several-in-one integrated scholarship

Population: various small classes  
Organization: most blended, one presential

<table>
<thead>
<tr>
<th><strong>Teaching purposes</strong></th>
<th><strong>Text genres</strong></th>
<th><strong>Wiki Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing-to-learn activities</td>
<td>Student-created overview/essays</td>
<td>Pages, discussion pages and categories</td>
</tr>
<tr>
<td>Writing about cases, e.g. edu. games</td>
<td>Structured, somewhat standardized “files”</td>
<td>Pages, discussion pages, categories</td>
</tr>
<tr>
<td>Direct instruction e.g. intro. to XML</td>
<td>Syllabus, weekly programs, tutorials, overview pages</td>
<td>Categories, navigation menus, code display</td>
</tr>
<tr>
<td>Mini-projects based instruction e.g. intro. to Flash</td>
<td>Syllabus, exercise programs, tutorials, overview/link pages, discussion</td>
<td>Navigation menus, wiki books, code formatting, discussion pages</td>
</tr>
<tr>
<td>Workshop support</td>
<td>Program page with links</td>
<td>None</td>
</tr>
</tbody>
</table>

**Other purposes**

<table>
<thead>
<tr>
<th><strong>Note taking, knowledge integration and linking</strong></th>
<th><strong>Text genres</strong></th>
<th><strong>Wiki Tools</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Note taking, knowledge integration and linking</td>
<td>Overviews, links and references</td>
<td>Articles, category trees, graphs</td>
</tr>
<tr>
<td>News</td>
<td>Blog</td>
<td>Wikilog</td>
</tr>
<tr>
<td>EduTech resource kit</td>
<td>All sorts</td>
<td>All</td>
</tr>
</tbody>
</table>
Case study 2: Dewiki – project-based learning

- Population: a single small semester class
- Organization: blended

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Text genre</th>
<th>Wiki Tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management</td>
<td>Current task (to do list)</td>
<td>Main page + discussion page</td>
</tr>
<tr>
<td></td>
<td>Menu</td>
<td></td>
</tr>
<tr>
<td></td>
<td>General forum</td>
<td></td>
</tr>
<tr>
<td>Literature review</td>
<td>Summaries</td>
<td>article</td>
</tr>
<tr>
<td>Dictionary of terms</td>
<td>Definitions</td>
<td>Article + Category</td>
</tr>
<tr>
<td>Research plan</td>
<td></td>
<td>Article + discussion page</td>
</tr>
<tr>
<td>Articles (outcome)</td>
<td>Long article</td>
<td>Article + discussion page</td>
</tr>
<tr>
<td>Valorization</td>
<td>book</td>
<td>Print book creator</td>
</tr>
</tbody>
</table>
Conclusion (1): Supported text genres in a MediaWiki

Text tools (extensions)
- Article
- Glossary
- Journal (wikilog)
- News (wikilog)
- Media
- Textbook (wiki book)
- Navigation (cat. menus)
- Categories
- Forum (extension)
- ……

Products
- Project 1
- Project 2
- Product 1
- Product 2
- ……
- Product 3

Other tools

Support for **wide range of text genres and learning activities**, if you install the right extensions!
Conclusion 2: Which tool?

Priorities:
- Grading
- Communication
- Knowledge construction & content
- Control of activities

Solution:
- LMS
- Portalware e.g. Drupal (Class & Schneider, Edmedia ‘11)
- Advanced wiki e.g. Mediawiki
- Workflow tool e.g. LAMS
http://edutechwiki.unige.ch/en

Used MediaWiki extensions:
http://edutechwiki.unige.ch/en/Mediawiki

Questions ?

Demos ?