PMWX: Fine-Grained Addressability in Purple MediaWiki & Purple Semantic MediaWiki

SemanticWiki Mini-series Session-3

11-Dec-2008

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8

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Announcement: PMWX Release

- The PMWX Code has just been released into beta on December 9, 2008
 - Released as free and open source under the GNU General Public License GPLv2.
 - www.mediawiki.org/wiki/Extension:Purple_MediaWiki
- Project page: project.cim3.net/wiki/PMWX
- Release notes: project.cim3.net/wiki/PMWX_Release_Notes

Commemorating:

A 40th Anniversary Celebration

December 9, 2008 ■ 1:00 PM to 5:30 PM ■ Stanford University Memorial Auditorium

They call it the "mother of all demos".

On December 9, 1968, Douglas Engelbart and his team at Stanford Research Institute staged the first public demonstration of the computer mouse, hypertext, real-time text editing, and much more.

It changed what is possible. The 1968 demo foresaw many of the technologies we use today, from personal computing to social networking.

Join us on December 9 to hear original participants and others recount what led up to the 1968 demo and its impact—which no one could have imagined at the time.

Featuring:

Daniel Borel (Logitech)

Christina Engelbart (Doug Engelbart Institute)

Doug Engelbart (Doug Engelbart Institute)

Chuck House (Media X at Stanford University)

Alan Kay (Viewpoints Research Institute)

John Markoff (The New York Times)

Bob Sproull (Sun Microsystems)

Robert Taylor (formerly ARPA)

Andy van Dam (Brown University)

1968 demo participants Don Andrews, Bill English, Bill Paxton, Jeff Rulifson

www.sri.com/engelbart-event.html



History of Purple Numbers

- Doug Engelbart's oNLine System (NLS) in 1968: "Mother of All Demos"
- "Precision browsing" added in the mid-1990s by Doug Engelbart along with Bob Czech and Christina Engelbart at the Bootstrap Institute
 - "Statement numbers" are now called "Purple Numbers" because of their color.
- Frode Hegland introduced link information and made purple numbers active elements in 2000.
- Other implementations & related work
 - XLink, XPointer and XPath; Purple; Plink; PurpleSlurple, PurpleWiki;
 Purple numbering on blogs; HyperScope; Purple Include

Purple MediaWiki in Action

Project Mission (1A)

[edit]

- From our PMWX_meeting-call_2007-08-16, PMWX_meeting-call_2007-09-11 and PMWX_meeting-call_2007-10-02 deliberations: (1A1)
 - Implement a purple number extension for MediaWikiø; include support for both hierarchical (stateless; hid) and stateful (nid) purple numbering. (1A1A)
 - Allow the display of purple numbers to be toggled on or off on the wiki page (1A1B)
 - Add support for Transclusion @ (1A1C)
 - Implement a set of "purplewiki to purple-mediawiki" migration tools, (1A1D)
 - And to make extension compatible with (1A1E)
 - Tagging (see details on the companion Tiki project), and (1A1E1)
 - The Semantic MediaWiki Extension (see

 http://wiki.ontoworld.org/index.php/Semantic_MediaWiki &
 http://meta.wikimedia.org/wiki/Semantic_MediaWiki (1A1E2)

Using Purple Numbers

- Precise communication
- Bookmark and search
- Copy-and-paste purple numbers
- Context-preserving transclusion
- Targeted content at top of page
- Real-time precise content location ("find on page")

Current Implementation

- HIDs and transclusion use server-side PHP.
- Viewspec uses client-side JavaScript.
- MediaWiki hook: OutputPageBeforeHTML

Features of Current Release

- HIDs
 - Paragraphs
 - Bullet points
 - Headers
 - Tables
 - Media objects (e.g., images)
- Viewspec (show/hide purple numbers)
- HID transclusion
- TOC entry transclusion
- Transclusion targets
 - Current version
 - Permanent link (specific version)

Purple SemanticMediaWiki (PSMW) in Action (1)

College of Computer and Information Science

[edit]

Foundation (1A)

[edit]

Founded in 1982, the College of Computer and Information Science is the first college in the nation devoted to Computer Science. We are also one of the pioneers in the creation of degree programs in Information Science. As an independent college within a large university, we have the agility to form interdisciplinary programs with all other academic units and this has led to ties with College of Arts & Sciences, College of Business Administration, College of Engineering, tied with College of Criminial Justice, and the Bouvé College of Health Sciences at the undergraduate and graduate level. (1A1)

Research Programs (18

[edit]

The college boasts one of the top programming languages research groups in the country. We also support strong research programs in software development, algorithms, networks, security, systems, databases, information retrieval, human-computer interaction, and artificial intelligence. (1B1)

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Founding year

Offers

Programming languages + , Software development + , Algorithms + ,

Networks + , Security + , Systems + , Databases + , Information

retrieval + , Human-computer interaction + , and Artificial intelligence + 

Tied with

College of Arts & Sciences + , College of Business Administration + , College

of Engineering + , and Bouvé College of Health Sciences + ,
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Purple SemanticMediaWiki (PSMW) in Action (2)

Transclusion syntax:

<t>http://wikitag.ccs.neu.edu:5900/pmwx/index.php/CCIS#hid1B1</t>

Programs

[hide purple numbers]

CCIS Programs (1)

[edit]

The college boasts one of the top programming languages research groups in the country. We also support strong research programs in software development, algorithms, networks, security, systems, databases, information retrieval, human-computer interaction, and artificial intelligence. T (1A)

Back to CCIS home page (1B)

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Programming languages + 4, Software development + 4, Algorithms + 4,

Networks + 4, Security + 4, Systems + 4, Databases + 4, Information

retrieval + 4, Human-computer interaction + 4, and Artificial intelligence + 4
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