



Welcome to Essential Skills 2016

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Announcements

- Block hours are 10:00-16:00 (you are suppose to be here, Karst is watching you ☺ (absentees are registered)
- It also apply to us from 10:00-12:00 (lecturer) and from 13:00-17:00 (TA)
- if for some reasons you cannot come, inform us and the SNE core-team
- What you should NOT do : Plagiarism → make us 
- Philosophy of ES
- Assignments / Guest Lectures /
- Exam: two parts (theory) + (practical)



Lectures

Weeks	Topics	Lecturer
05/09	Wiki / XML / CSS/ XSLT/	Adam Belloum
12/09	Regular Expression/Linux Text processing tools / Latex /	Adam Belloum /
19/09	Autotools / Version Control Systems	Adam Belloum
26/09	Introduction to Statistics 1/2	Paola Grosso
03/10	Computer Architecture 1/2	Adam Belloum /
10/10	Web Services / Operating Systems	Adam Belloum
17/10	GUEST Lectures <ul style="list-style-type: none">• Cloud Computing / Big Data / HTML5 JavaScript	
20/10	• DataBase (SQL, NoSQL, and NewSQL)	M. Kattenberg
24/10	Exam	



Wiki (Dokuwiki)

EA 2014/2015

Adam Belloum

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Material Prepared by Eelco Schatborn



What is a Wiki?

A wiki is an **editable** website that **does not** require users to **know HTML**.

Most have a system to record changes so that at any time, a **page can be reverted** to any of its previous states.



What Is A Wiki?

- Wiki:
 - A website that allows the **visitors** themselves to easily add, remove, and otherwise edit and change available content
 - A **collaborative** website which can be directly edited by anyone **with access to it**.
- (from Wikipedia)
- (from Wiktionary)



Wikis: Collaborative Spaces

- A wiki (according to Ward Cunningham) is a type of **website** that allows users to **add** and **edit** content and is especially suited for constructive **collaborative** authoring
 - Great **places for brainstorming**
 - Use to **draft policies**
 - A way to **share** the secretary responsibilities in a meeting
 - Empowers the user



Why use a wiki?

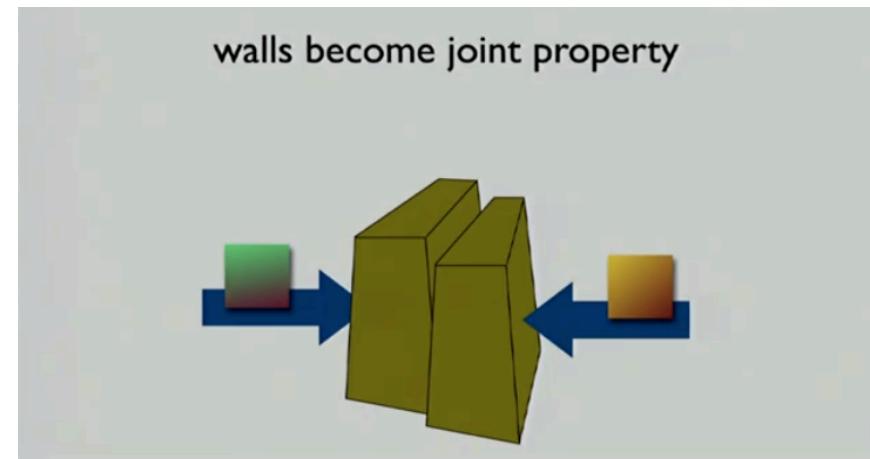
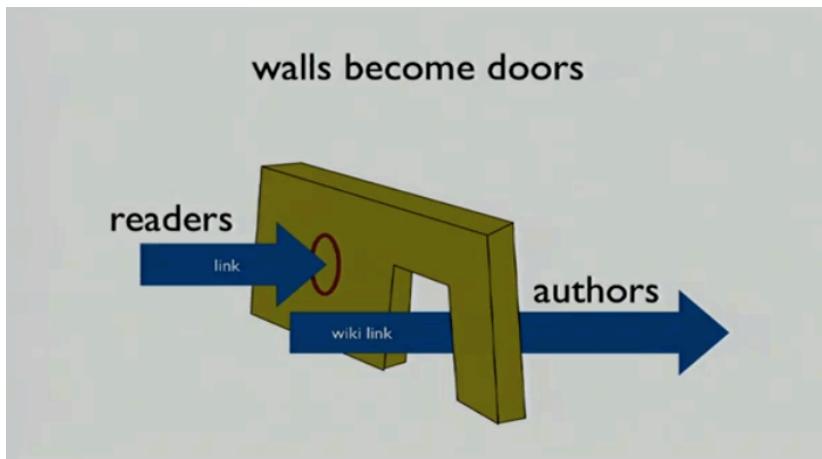
- Easy to **learn** – no HTML required
- Easy way to **share knowledge**
- Easy way to **collaborate** across borders and among friends and/or colleagues
- Ability to **revert back** to old versions
- Ability to **track who's done** what & where

Wiki" (/wi:ki:/)

- Ward Cunningham developed WikiWikiWeb in 1994, the first Wiki
 - named after the WikiWiki bus at Honolulu International Airport
 - http://en.wikipedia.org/wiki/File:HNL_Wiki_Wiki_Bus.jpg
 - originally a Hawaiian word for “fast”



The Federated Wiki



The Federated Wiki: Ward Cunningham at TEDxPortland 2012
<http://www.youtube.com/watch?v=BdwLczSgvcc>

Wikis: Collections of Pages



- Wiki pages look like **web pages**
- Anyone with a web browser can **read** a wiki site
- Anyone with the **proper permissions** can **edit** a wiki site

Wiki Adoption in Higher Education

- Why use wikis in higher education?
 - No hierarchy
 - Participatory / Collaborative
 - Encourages student-faculty **interaction**
 - **Progressive** knowledge building
 - Follow the evolution of thoughts and ideas
 - Web-based – **anytime, any place** access
 - Software is incredibly **easy to use**



Which Wiki solution ...

- Why Wikis?
 - Advertising
 - Low-cost and high visibility



How?
Wikipedia
...


- Wikis and e-learning:
 - Collaborative working
 - Student-centred working
 - Social learning
 - ...



How?
In-house solution
Integrated solution
Hosted Wiki
...


Let's Look At A Wiki

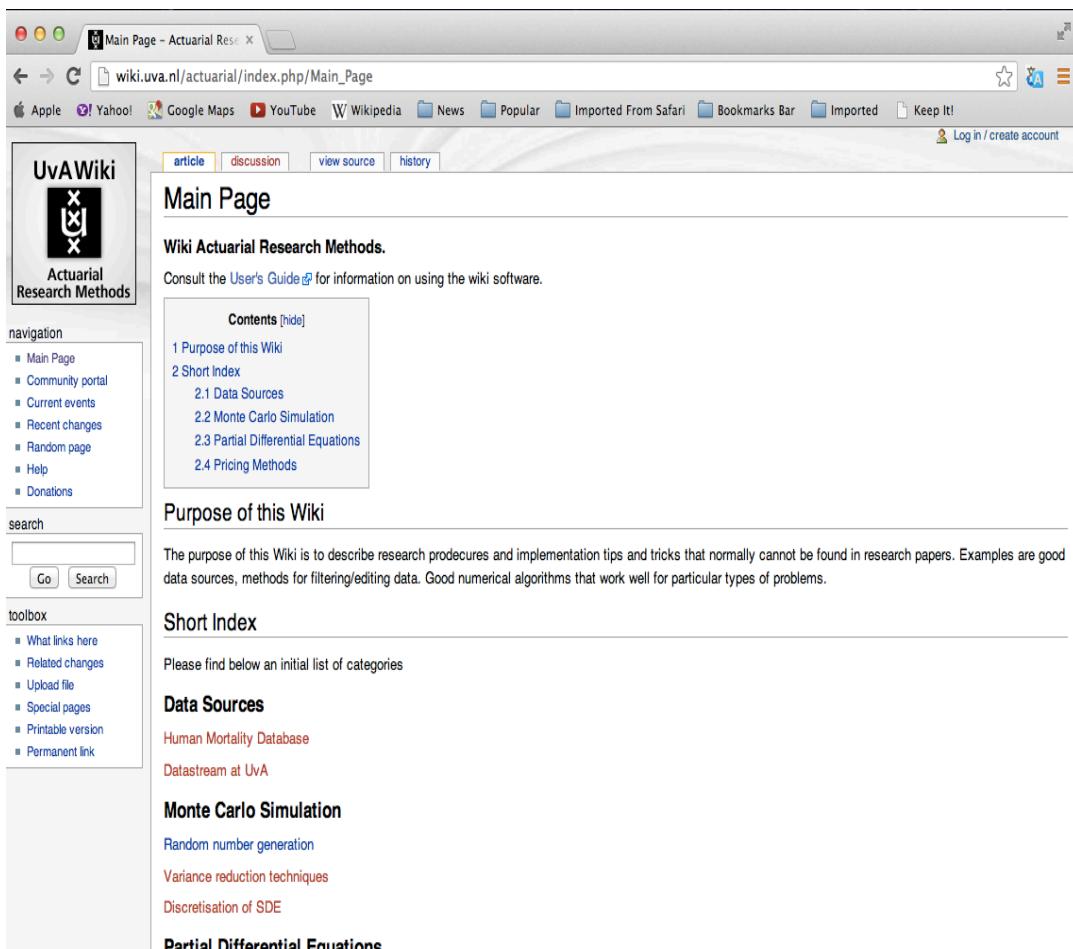


The screenshot shows a web browser window with the URL en.wikipedia.org/wiki/University_of_Amsterdam. The page title is "University of Amsterdam". The main content area describes the university's history, research, and international reach. To the right, there is a sidebar with the university's logo, established year (1632), type (Public), president (Louise Gunning), rector (Dymph van den Boom), magnificus (Magnificus), academic staff (2,796), admin. staff (2,294), students (32,739), and various undergraduate and postgraduate figures. It also lists its location in Amsterdam, North Holland, Netherlands, with coordinates 52°22'6"N 4°53'25"E, and notes its urban campus and former names (Atheneum Illustre).

- **Wikipedia** is the largest and best known example of a Wiki
- An entry exists in Wikipedia for University of Amsterdam
- Why:
 - Users know about Wikipedia and use it to find stuff
 - Users browsing UvA university and related terms will find links to
 - Helps Google ranking
 - Easy to create



WikiUvA



The screenshot shows a web browser window with the title "Main Page ~ Actuarial Research Methods". The address bar displays "wiki.uva.nl/actuarial/index.php/Main_Page". The browser toolbar includes links to Apple, Yahoo!, Google Maps, YouTube, Wikipedia, News, Popular, Imported From Safari, Bookmarks Bar, Imported, and Keep It!. A "Log in / create account" button is visible in the top right.

UvAWiki
Actuarial Research Methods

Main Page

Wiki Actuarial Research Methods.
Consult the [User's Guide](#) for information on using the wiki software.

Contents [hide]

- 1 Purpose of this Wiki
- 2 Short Index
 - 2.1 Data Sources
 - 2.2 Monte Carlo Simulation
 - 2.3 Partial Differential Equations
 - 2.4 Pricing Methods

Purpose of this Wiki

The purpose of this Wiki is to describe research procedures and implementation tips and tricks that normally cannot be found in research papers. Examples are good data sources, methods for filtering/editing data. Good numerical algorithms that work well for particular types of problems.

Short Index

Please find below an initial list of categories

Data Sources

[Human Mortality Database](#)
[Datastream at UvA](#)

Monte Carlo Simulation

[Random number generation](#)
[Variance reduction techniques](#)
[Discretisation of SDE](#)

Partial Differential Equations

navigation

- Main Page
- Community portal
- Current events
- Recent changes
- Random page
- Help
- Donations

search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

University of Amsterdam offer a wiki service for UvA students/ staff:

- Public wiki

- No login required

- Internal wikis

- Require account
 - Used for internal project



SNE wiki



System & Network Engineering

Trace: • SNE/OS3 Homepage

Master Education SNE/OS3

SNE is the [University of Amsterdam](#) master education in System and Network Engineering.
We focus on Open Standards, Open Software and Open Security, hence the name OS3.

General information and testimonials are available at the [Introductory page](#). More in depth facts can be found on our [Master SNE page](#).

Contact information

If you want to make a personal appointment to visit our education or to attend a lecture, please contact us via [info at os3 dot nl](#). You can also visit our [facilities](#) at the Science Faculty of the University of Amsterdam, located at the Science Park Amsterdam.

SNE/OS3 news

UvA SNE scores as the best Dutch Computer Science master

In the new 2013 [Keuzegids](#) masters System and network engineering scores as the best Computer Science master. It states translated from Dutch:

"Again the System and Network Engineering master at the UvA gets the best assessment. The students are very complimentary about the facilities. The program is very well organized, especially the focus on skills in the education is valued, as is the career preparation. The latter is okay everywhere but the UvA is the only master to score above-average on this point.

10 Year Anniversary

In May the OS3 master will exist 10 years. We will celebrate this on May 31st. Put this date in your agenda.

Navigation

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■ SSN

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■ Colloquia

■ OS3 Masters Theses

▶ Archive

Links

■ Location



Chemistry Example (1)

http://www.ch.ic.ac.uk/wiki2/index.php/Main_Page

The screenshot shows a Mozilla Firefox browser window. The address bar displays the URL: http://www.ch.ic.ac.uk/wiki2/index.php/Main_Page. The main content area is a wiki page titled "Why Wiki?". The page lists several reasons why Wikis are used:

- Oh No! Not yet another:
[Content management system \(CMS\)](#) ↗/[Virtual Learning Environment \(VLE\)](#) ↗
- So why should I bother?
 - The Ward Cunningham ↗ reason: wiki = **simple**, wiki = **fast**
 - The Tim Berners-Lee ↗ reason: The web should be **read many/write many!**
 - The Ted Nelson ↗ reason: Everything is **intertwined** and **non-linear**
 - The Tim O'Reilly ↗ reason: [Web 2.0](#) ↗ is here! ([CMS](#) --> [wikis](#) ↗)
 - [Disputed as an incomplete solution!](#) ↗
- The Lemming ↗ reason: 1.3 million [Wikipedians](#) ↗ cannot be wrong?
- The [DUS](#) ↗ reason: Though shalt create **synoptic, modular/interoperable** courses for [Bologna](#) ↗ compliance!
- The [Opensource](#) ↗/[OpenCourseWare](#) ↗ reason. This already provides:
 - Complete, free, software environment (Apache, php, MySQL, wiki)
 - (even if the support turns out not to be!)
 - [Browser toolbar](#) ↗, stylesheets (Skins), editing/history tools, [Googlepedia](#) ↗
 - User authentication ↗, including [Shibboleth for Inter-institutional collaborations](#) ↗
- ■ [Intertwining](#) ↗(Categories) an intrinsic feature
- **open and communal** Ethos
 - Can this co-exist within a traditional **structured** institutional environment?

- Henry Rzepa's talk on Wikis:

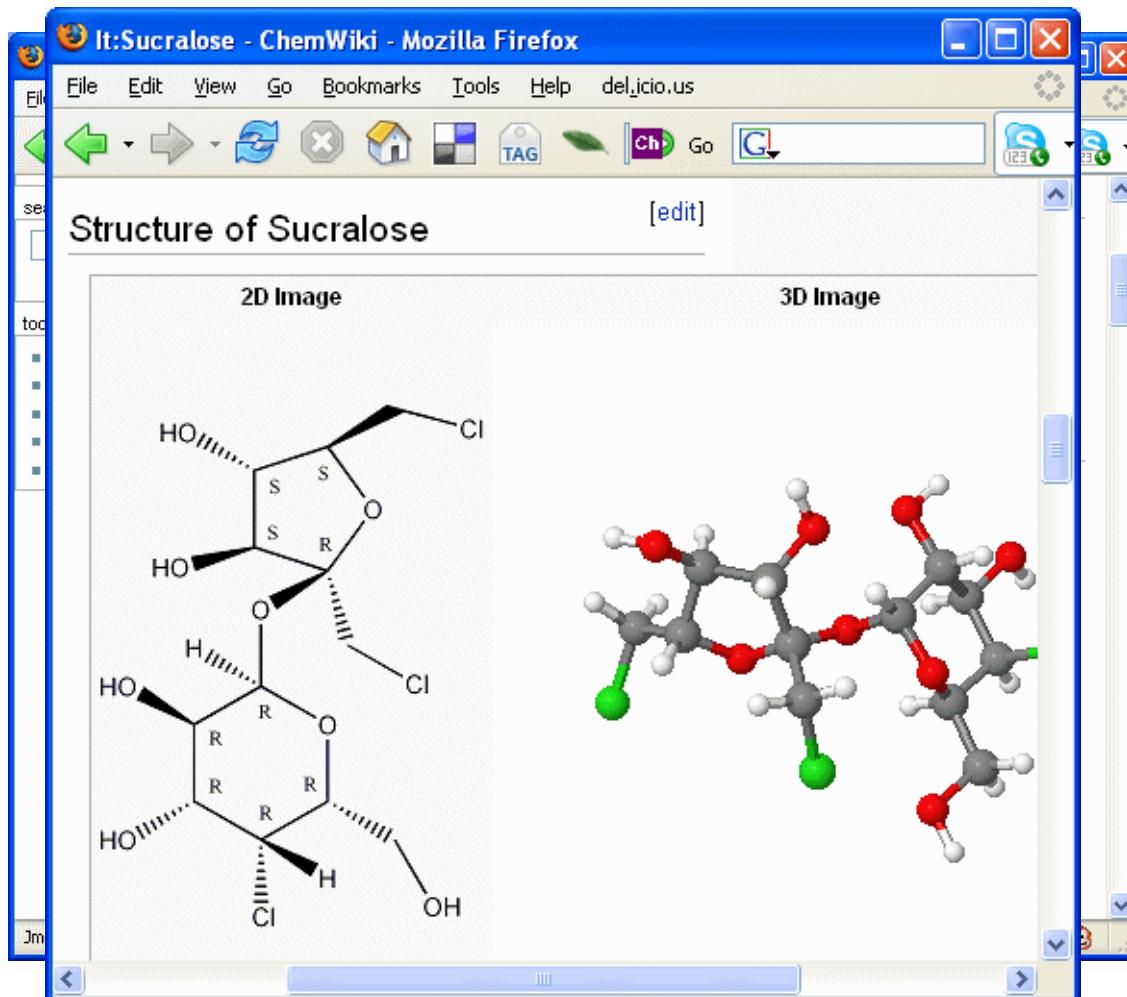
—Uses a Wiki as a presentational device

The resource:

- Explains relationships with CMSs, VLEs, ...
- Provides examples of use of Wikis in chemistry teaching



Chemistry Example (2)



- Wikis are not just for text and images, as can be seen in these examples.



Wiki platforms

- If you want to make use of a Wiki, what software should you use?
 - Install dedicated Wiki software (Media Wiki, Confluence, ...)
 - Use bundled Wiki software (Moodle, Blackboard, ...)
 - Use third party hosted service (WebPaint, Jot, ...)
- Compare wiki platforms
 - www.wikimatrix.org
- Huge list of wiki software
 - <http://c2.com/cgi/wiki?WikiEngines>



Wikis: A Discussion (1)

- The question **is not** “Why Wiki?” **but** “Why **now**?”:
 - Wikis build **on established** “*computer supported collaborative work*” tradition
- Tipping point:
 - Social nature of learning :
 - Social constructivism
 - Dialogue and negotiated meaning, ...
 - Collaboration, community and creativity
 - Socio-technical & culture changes:
 - Ubiquitous computing
 - Digital natives, Web generation, ...
 - Web 2.0

Based on “*Wikis and Collaboration: Approaches to Deploying Wikis in Educational Settings*” by Steve Warburton



Wikis: A Discussion (2)

Concerns:

- Fear of **losing control** by levelling structures of authority
- Lack of approved mechanisms for administering (group), assessment, and rating individual performance
- Used among other against Wikipedia !!



Argument against Wikipedia

- The idea that *anyone* can come to Wikipedia and edit *any page* at *any time* and do so with complete *anonymity* is extremely disconcerting.
- Obvious questions arise immediately:
 - **What if** the person is a vandal and inserts profanity?
 - **What if** the person is a vandal and either completely erases the page or corrupts it?
 - **What if** the person is a spammer from a illegal site who adds illegal links and pictures to the page?



Understanding Wikipedia

- Jimmy Wales on the birth of Wikipedia
 - [http://www.ted.com/talks/jimmy wales on the birth of wikipedia.html](http://www.ted.com/talks/jimmy_wales_on_the_birth_of_wikipedia.html)
- Wikipedia – “A multilingual, Web-based, free-content encyclopedia written collaboratively by volunteers ... (with) editions in over 180 languages. According to Hitwise, an online measurement company, **Wikipedia is the most popular reference site on the Internet.**”



Wiki Communities

- The heart of any wiki is its **community**.
- person who arrives is able to play one or more roles
 - Readers
 - Writers
 - Editors
 - Administrators

Writers, editors and admins work together to solve almost all of the problems that you would expect to arise in an open platform like Wikipedia



Community Tools

- each page in Wikipedia has a **revision history**
 - Thousands of pages change every day.
 - During peak hours, around 50 pages changing/mn
- Watchlist
 - Helps get notified every time a page changes.



Vandalism and Edit Wars

- **It is easy** for anyone who sees **vandalism** to revert pages back to a pre-vandalism state.
- **It is easy** for any user to alert the rest of the Wikipedia community to **vandalism** that is in progress.
- **It is possible** for an admin to block or ban users (or IP addresses) who are **persistently destructive**.
- **It is possible** for an admin to protect a page temporarily to keep people from changing it.
- **It is possible** for an admin to delete an **inappropriate page**.



Edit wars

- Two or more people edit or **revert pages over and over again** in order to express their point of view



Experiment: Changing a Page

- Go to Wikipedia and find a topic that you know something about.
- Search for and read the page about that topic on Wikipedia.
- Find something that you feel is missing in the article, or find something that you **disagree** with.
- Edit the page and **add/change** a sentence or two in the article.
 - Simply click on "Edit this page" at the top of the article, and make your changes.
- Submit your change.

- Come back in a day or two and see what has happened to your change.



How pages evolve in Wikipedia

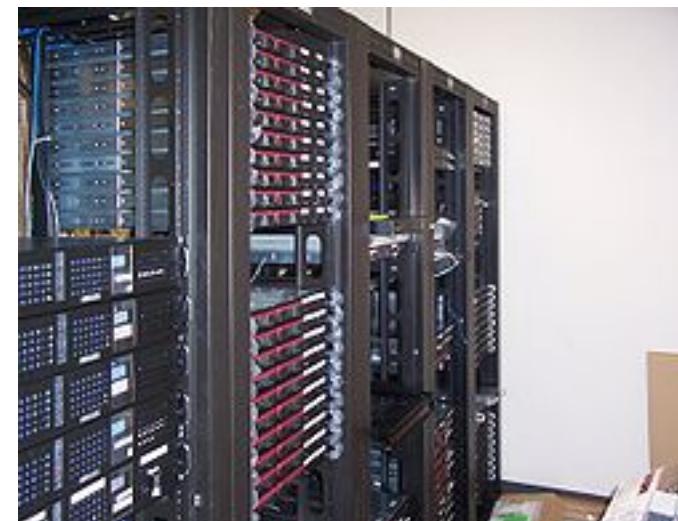
- Heavy Metal Umlaut in Wikipedia (ö, ü)
- “The 8.5-minute screencast turns the change history of this Wiki page into a movie, scrolls forward and backward along the timeline of the document, and follows the development of several motifs.”

<http://jonudell.net/udell/gems/umlaut/umlaut.html>



Wikipedia's Hardware/software

- DNS servers run PowerDNS.
- LVS on commodity servers to load-balance incoming requests
- Squid caching proxy servers
 - For HTML in front of Apache.
 - For image files, in front of Sun Java System Web Server



Servers installed in Tampa, Florida
as of September 2005

Wikipedia's Hardware/software

- servers run Ubuntu Linux, except for the image file storage servers which run Solaris.
- main web application is MediaWiki, which is written in PHP.
- MySQL: group wikis into clusters, and each cluster is served by several MySQL servers, replicated in a single-master configuration
- structured data is stored in
 - memcached for caching of database query and computation results
- For full-text search we use Lucene



The Wiki Way

[BoLeuf](#), [WardCunningham](#), *The Wiki Way: Collaboration and Sharing on the Internet*. AddisonWesley. (2001) ISBN 020171499X

The **Wiki Way**

Quick Collaboration on the Web



- Coauthor content on the Web using a standard browser
- Build Internet communities through self-organizing and organic growth of content
- Support idea-keeping for the connected community
- Leverage your searchable notes with resources only a click away



Bo Leuf
Ward Cunningham

Dokuwiki

- Created by Andreas Gohr in June 2004
- licensed under GPL 2
- written in PHP
- works on plain text files, no DB
- syntax similar to MediaWiki
- targeted at developer teams,
- workgroups and small companies





System & Network Engineering



Trace: • SNE/OS3 Homepage • Essential Skills

Search

Essential Skills

Teacher	Adam Belloum
Lab teacher	Reggie Cushing (PhD student) contact him at R.S.Cushing@uva.nl
Book	none, but check the library in the server room for reference materials

News and Information

Exam Monday October 22, 2012

Students will be distributed cross the two rooms (B1.123 and C3.154) according to the lab session seating order (see seating table bellow)

- Try to be in the room at least 10mn before the beginning of the exam
- Theory 10:30-12:30
- practical 13:30-15:30
- Cheat sheets to be used during the exam [\(regex cheat sheet\)](#) [\(latex cheat sheet\)](#)

Monday (15/10/2012): Extra lecture about introduction to writing EU project proposals and beyond (experience with EU proposals)

Thursday (18/10/2012): Extra lecture combination of HTML5 with JavaScript to enable computing through the Web browser

Monday (01/10/2012): uploaded a new set of slides of the Lecture Linux tools for Textprocessing (removed the extra-slides in the assignment)

Thursday (27/09/2012): lab session of the Text Processing at 10:00

Wednesday (26/09/2012): Lecture about Text processing will be given at 15:00

Thursday (20/09/2012): Lecture about Latex will be given by Spiros Koulouzis

Monday (17/09/2012): Lecture about Web Services

Edit

Navigation

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 - VA
 - RP2
 - Colloquia
- OS3 Masters Theses
- Archive



Seating order / notification of assignment acceptance

(this assign means ✓ means approved, - means I will be back for another check)

Student	Room-Seat	wiki/xml/xhtml	css/xslt/autools	Web service	Latex1/2	Reg awk/sed	Perl/python	ruby/cvs

Edit





System & Network Engineering



Trace: • SNE/OS3 Homepage • Essential Skills

Search

Edit the page and hit save. See [syntax](#) for Wiki syntax. Please edit the page only if you can [improve](#) it. If you want to test some things, learn to make your first steps on the [playground](#).

B I U T S H H H H G E M Q F

===== Essential Skills =====

```
**Teacher** | Adam Belloum |
**Lab teacher**| Reggie Cushing (PhD student) contact him at R.S.Cushing@uva.nl|
Book | none, but check the library in the server room for reference materials|
```

===== News and Information =====

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* **Cheat sheets to be used during the exam** {{2012-2013:courses:es:regex_cheatsheet.pdf|(regex cheat sheet)}} {{2012-2013:courses:es:latex_cheatsheet.pdf|
(latex cheat sheet)}}\\
\\

**Monday** (15/10/2012): Extra lecture about introduction to writing EU project proposals and beyond (experience with EU proposals) \\
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**Monday** (17/09/2012): Lecture about Web Services \\
```

Save Preview Cancel Edit summary

Minor Changes



Logged in as: Adam Belloum (abelloum)

2012-2013/courses/es/start.txt · Last modified: 2013/07/30 10:41 by abelloum

Show page Old revisions Recent changes Search Manage Subscriptions Logout Sitemap





System & Network Engineering



Trace: • SNE/OS3 Homepage • Essential Skills

Old Revisions



These are the older revisions of the current document. To revert to an old revision, select it from below, click [Edit this page](#) and save it.

- 2013/07/30 10:41 2012-2013:courses:es:start - abelloum (current)
- 2012/10/29 12:12 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:53 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:38 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:29 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:28 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:20 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:10 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:06 2012-2013:courses:es:start - rcushing
- 2012/10/29 11:04 2012-2013:courses:es:start - rcushing
- 2012/10/29 10:56 2012-2013:courses:es:start - rcushing
- 2012/10/29 10:53 2012-2013:courses:es:start - rcushing
- 2012/10/29 10:30 2012-2013:courses:es:start - rcushing
- 2012/10/29 10:12 2012-2013:courses:es:start - rcushing
- 2012/10/29 09:51 2012-2013:courses:es:start - rcushing
- 2012/10/29 09:33 2012-2013:courses:es:start - rcushing
- 2012/10/29 09:29 2012-2013:courses:es:start - rcushing
- 2012/10/29 09:25 2012-2013:courses:es:start - rcushing
- 2012/10/23 08:57 2012-2013:courses:es:start - abelloum
- 2012/10/23 08:54 2012-2013:courses:es:start - abelloum
- 2012/10/23 08:47 2012-2013:courses:es:start - abelloum

[Show differences between selected revisions](#)

[less recent >>](#)



System & Network Engineering



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Differences

This shows you the differences between two versions of the page.

View differences: [Side by Side](#) [diff](#)

[Link to this comparison view](#)

2012-2013:courses:es:start [2012/10/29 12:12]

rcushing

Line 1:
- (perl/python)\| (ruby/cvs)\| ===== Essential Skills =====

	Teacher	Adam Belloum
	Lab teacher	Reggie Cushing (PhD student) contact him at R.S.Cushing@uva.nl
	Book	none, but check the library in the server room for reference materials

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2012-2013:courses:es:start [2013/07/30 10:41] (current)

abelloum

Line 1:
+ ===== Essential Skills =====

	Teacher	Adam Belloum
	Lab teacher	Reggie Cushing (PhD student) contact him at R.S.Cushing@uva.nl
	Book	none, but check the library in the server room for reference materials



Formatting text

- **bold** **bold**
- *italic* //italic//
- Underlined _____ underlined _____
- monospaced ' 'monospaced' '
- super script ^{super}script
- sub script _{sub}script
- deleted deleted



External Link

- external links are recognised automatically, no special syntax needed
- syntax is present though:

`https://www.os3.nl`

or

`[[https://www.os3.nl]]`

- with a renaming:

`[[https://www.os3.nl | De OS3 website]]`

- email addresses are also recognised
- they can be garbled to prevent harvesting



Internal Link

- same **bracket** syntax as external links
- no need for URL syntax, just use page names
- renaming is also possible
- use namespaces by using a **colon** in the pagename.
- linking to a specific section using a **hash**

[[syntax#internal|this Section]] .



Footnote

- adding footnotes at the end of the web page

((This is a footnote))

- can be bothersome for large pages



Lists

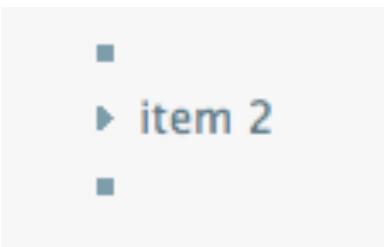
- unordered lists:
 - * item 1
 - * item 2
 - * subitem 2.1
 - * item 3
- ordered lists:
 - item 1
 - item 2
 - subitem 2.1
 - item 3



Lists (2)

- folding lists (unordered):

```
+ item 1  
+ item 2  
    + subitem 2.1  
+ item 3
```



- closed is default, to change use +>

```
+ item 1  
+> item 2  
    + subitem 2.1  
+ item 3
```





Page layout

- **no real control over layout**
- emphasis on content, not layout
- paragraphs are created from blank lines
- to force a new line use \\\ followed by space or EOL
- you can create a separation line using 4 dashes -----



Sectioning

- up to five levels

===== Headline Level 1 =====

===== Headline Level 2 =====

==== Headline Level 3 ===

=== Headline Level 4 ===

== Headline Level 5 ==

- sections can be linked using a hash



Menus

- to add a menu use the **sidebox** tag

```
<sidebox title="Links">  
* [[info:.location|Location]]  
</sidebox>
```

A screenshot of a DokuWiki sidebar. It features a light gray background with a thin black border around the main content area. Inside, the word "Links" is centered at the top in a dark blue font. Below it is a green square bullet point followed by the word "Location" in green text.

- you can change the title as well . . .
- they used to be foldable but . . .



Syntax Highlighted text

- a block can be **shown verbatim** by indenting each line with **2 spaces**
- you can also show code in verbatim with syntax highlighting
- Using:

```
<code java>
    public class HelloWorld {
        public static void main(String[] args) {
            System.out.println("Hello, World");
        }
    }
</code>
```

```
public class HelloWorld {

    public static void main(String[] args) {
        System.out.println("Hello, World");
    }
}
```

- more languages available:
 - PHP, perl, python, ruby, c,
 - bash, a block



Tables

- create tables using | for normal cells or ^ for headers

^ Heading 1	^ Heading 2	^ Heading 3	^
Row 1 Col 1	Row 1 Col 2	Row 1 Col 3	
Row 2 Col 1	colspan (note the double pipe)		
left	centered	right	

- vertical spans (**rowspan**) are also possible :::
- **align** by adding 2 or more **spaces** before or after the cell text (or both for centering)

No Formatting

- if you need to display text exactly like it is typed

%% if you need to display text exactly like
it is typed %%

- you can also enclose text in the nowiki tag

<nowiki>

if you need to display text exactly like it
is typed

</nowiki>



Images (1)

- you can show images using curly brackets:

```
{ {images:info.png.jpg} }
```

- the width can be resized by appending a ? and a width to the

image name

```
{ {images:info.png?400} }
```

- height can be changed as well:

```
{ {images:info.png?200x400} }
```

- showing an external image:

```
{ {http://de3.php.net/images/php.gif?  
200x50} }
```



Images (2)

- images can be aligned like with tables, using a space before and/or after the image name
- you can add a **caption** to the image using:

```
{ {images:info.png|This is an image} }
```

- images may be used as a **caption** for links:

```
[ [https://www.os3.nl|{ {images:info.png|
OS3} } ] ]
```



The Poll plugin

- the poll plugin can be used to get feedback:

```
<poll [Wat wil jij hebben?]>
```

- * Bier
- * SPAM
- * Speed
- * Frisdrank
- * Eten
- * geen SPAM!

[Wat wil jij hebben?]

Bier
 SPAM
 Speed
 Frisdrank
 Eten
 geen SPAM!

```
</poll>
```



Suggested Reading/Watching

- <http://www.wikihow.com/Start-a-Wiki>
- Youtube video on wiki
 - <http://www.youtube.com/watch?v=-dnL00TdmLY>
- Youtube videos on Dokuwiki
 - <http://www.youtube.com/watch?v=nP1e5fa8dDw&feature=related>
 - <http://www.youtube.com/watch?v=dv9R19xgCJI&feature=related>
- **Wikis: A Platform for Innovation in the Classroom**
 - <http://www.youtube.com/watch?v=ELwWDrlkSnl&feature=related>

Speaker: Jutta Schmiers-Heller, Dan Beeby - New Media in Education 2008, hosted by the Columbia Center for New Media Teaching and Learning



Links

- **Blogs, Wikis, Podcasting, Social Networks And File Sharing: How The Web Is Transforming Itself - Part I**
 - http://www.masternewmedia.org/news/2006/10/16/blogs_wikis_podcasting_social_networks.htm
- **Introduction To Wikis: How The Web Is Transforming Itself - Part III**
 - http://www.masternewmedia.org/news/2006/11/11/introduction_to_wikis_how_the.htm



Links

- “**Blogs, Wikis, Podcasting, Social Networks And File Sharing: How The Web Is Transforming Itself part III and IV**

- http://www.masternewmedia.org/news/2006/11/11/introduction_to_wikis_how_the.htm
- http://www.masternewmedia.org/news/2006/11/11/introduction_to_wikis_how_the.htm