Jakob Voss

We were promised Xanadu

The original hypertext system and how we can benefit from its concepts

presented at Wikimania 2010 Gdańsk

Sunday, July 11th 2010

digital hypertext systems





Jimbo Wales **Wikipedia** 2001





Ward Cunningham **WardsWiki** 1995



Tim Berners-Lee World Wide Web 1989





Ted Nelson **Xanadu** 1960

- Open Content
- Limited Scope (Encyclopaedia)
- Easy editing
- Versioning
- Backlinks
- Centralized
- Identifiers (URI & URL)
- Distributed
- Very limited type of Hypertext
- Deep digital documents
- Mostly Vaporware
- Important concepts

WWW is broken

"HTML is precisely what we were trying to PREVENT – ever-breaking links, links going outward only, quotes you can't follow to their origins, no version management, no rights management."



Ted Nelson's Computer Paradigm, Expressed as One-Liners (1999)

Hyperlinks is more

- Docuverse
- Versioning
- Transclusion
- Deep links
- Compound Documents

•

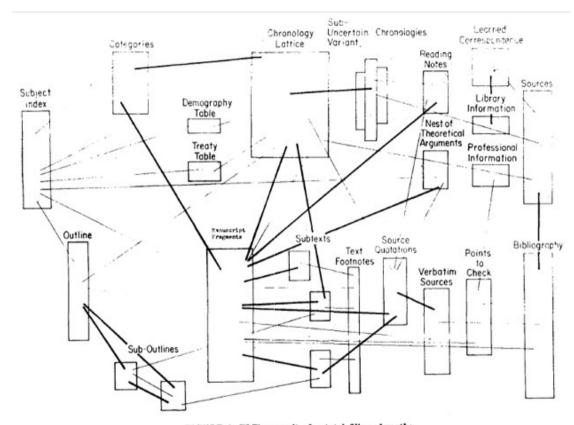


FIGURE 4—ELF's capacity for total filing: hypothetical use by historian. Thin lines indicate links; heavy rules indicate some of same entries.



A File Structure for the Complex, the Changing and the Indeterminate (1965)

Docuverse light

Vitamin C

From Wikipedia, the free encyclopedia (Difference between revisions)

Revision as of 17:48, 23 February 2007 (edit)

Lumos3 (Talk | contribs)

(→Plant sources - Remove special mention of Amla, its already in the table)

→ Older edit

Line 73:

Line 73:

*** Deficiency disease ***

[[Scurvy]] (a form of [[avitaminosis]]) results from lack of vitamin C, which is required for correct [[collagen]] synthesis in humans. Scurvy leads to the formation of liver spots on the skin, spongy gums, and bleeding from all [[mucous membrane]]s. The spots are most abundant on the thighs and legs, and a person with the aliment looks pale, feels depressed, and is partially immobilized. In advanced scurvy there are open, [[suppuration]]suppuration[] wounds and loss of [[beeth]].

Scurryy was at one time common among [[salor]]s, [[pirate]]s and others who were on [[ship]]s that were out to sea longer than perishable [[futti]s and [[wegetable]]s could be stored and by [[soldier]]s who were similarly separated from these foods for extended periods. It was described by [[hippocrates]] (c. 469 BC-c. 389 BC). Its cause and cure has been known in many native cultures since prehistory. For example, in 1536, the French explorer [[Jacques Cartier]], exploring the [[Saint Lawrence - River[5t. Lawrence River]], used the local natives' knowledge to save his men who were dying of + scurry. He boiled the needles of the [[Thuja[arbor vitae]] tree (Eastern White Cedar) to make a tea that was later shown to contain 50 mg of vitamin C per 100 grams.ref name-martini>(cite journal |id-PMID 12422875 |itile=Jacques Cartier witnesses a treatment for scurvy | accessibate=2007-02-19 |date=June 2002 |author=Martini E | journal=Vesalius: acta internationales | historiae medicinae |)-ciref>

*** Deficiency disease ***

[Scurvy]] (a form of [[avitaminosis]]) results from lack of vitamin C, as an effect of its requirement for correct [[collagen]] synthesis. Scurvy leads to the formation of liver spots on the skin, spongy gums, and + bleeding from all [[mucous membrane]]s. The spots are most abundant on the thighs and legs, and a person with the aliment looks pale, feels depressed, and is partially immobilized, in advanced scurvy there are open, [[suppurstonisuppursting]] wounds and loss of [[teeth]], and eventually, death.

Current revision (04:17, 24 February 2007) (edit) (undo)

Jrockley (Talk | contribs)

(remove vandalism and cleanup scurvy section)

Historically, scurry was common among those with poor access to fresh fruit and vegetables, such as [[sallor]]s, [[printe]]s and others who were on [[ship]]s that were out to sea longer than perishable [[fruit]]s and [[vegetable]]s could be stored, as well as isolated [[solder]]s. The earliest documented case was described by [[hippocrates]] around the year 400 8C.

The first attempt to give scientific basis for the cause of scurvy was by a ship's surgeon in the British [[Royal Navy]], [[James Lind]]. While at sea in May 1747, Lind provided some crew members with two oranges and one lemon per day, in addition to normal rations, while others continued on [[cider]], [[vinegar]], [[suphuric acid]] or [[seawater]], along with their normal rations. The results conclusively showed that something in the citrus fruits prevented the disease, a property later described as "antiscorbuto", Vitamin C was isolated in the 1920s by [[Albert Szent-Gyórgy]] and was shown to be ascorbic acid.

No bodily organ stores vitamin C,((Fact(date=February 2007)) and so the body soon depletes itself if fresh supplies are not consumed through the digestive system.

No bodily organ stores vitamin C./([Fact|date=February 2007)) and so the body soon depletes itself if fresh supplies are not consumed through the digestive system.

Line 141:

*** Possible other vitamin C deficiencies ***

[[mage:Endo dysfunction Athero PNG|thumb|[[Atherosclerosis]] has been hypothesised to be a vitamin C deficiency disease]]

Rath (who has killed numerous people while promoting clinically untrialled drugs in townships across South Africa) made a typically strange statement: that during the [[ce ape]], when vitamin C was scarce, [[natural selection]] favoured human individuals who could repair arteries with a layer of [[cholestero]]. He suggests that although eventually harmful, cholesterol lining of artery walls would be beneficial in that it would keep the individual alive until access to vitamin C allowed arterial damage to be repaired. If this is true, [[atherosclerosis]] is in fact a vitamin C deficiency disease.

The established RDA has been criticised by Pauling to be one that will prevent [[acute (medical)/acute]] [[scurvy]], and is not necessarily the dosage for optimal health.((Factidate=February 2007))

line 141:

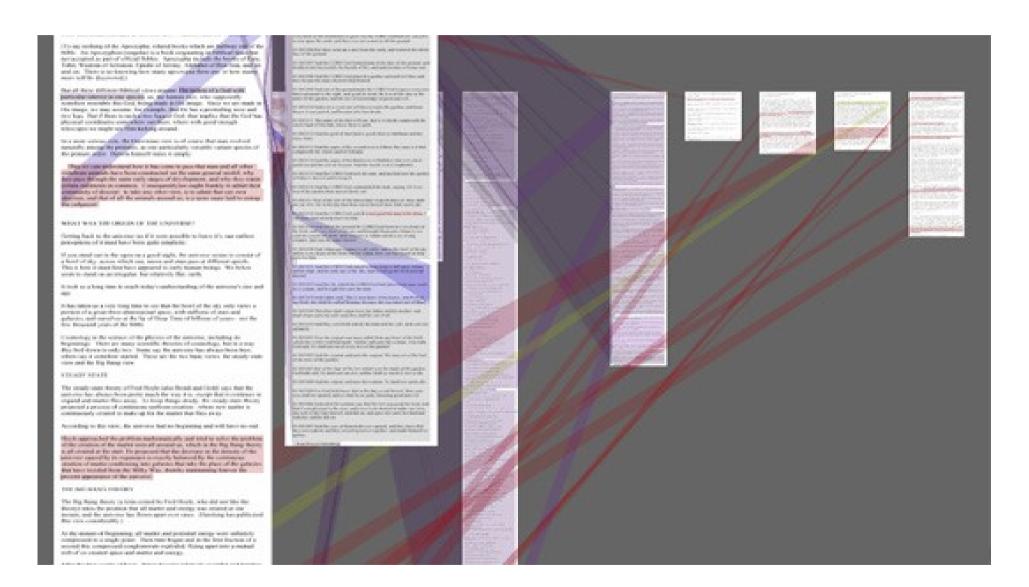
*** Possible other vitamin C deficiencies ***

[[mage:Endo dysfunction Athero.PNQthumb[[Atherosclerosis]] has been hypothesised to be a vitamin C deficiency disease]]

Rath hypothesised that during the [[ice age]], when vitamin C was scarce, [[natural selection]] favoured human individuals who could repair arteries with a layer of [[cholestero]]. He suggests that although eventually harmful, cholesterol lining of artery walls would be beneficial in that it would keep the individual alive until access to vitamin C allowed arterial damage to be repaired. If this is true, [[atherosclerosis]] is in fact a vitamin C deficiency disease.

The established RDA has been criticised by Pauling to be one that will prevent [[acute (medical()acute)]] [[scurvy]], and is not necessarily the dosage for optimal health ((Fact)date=February 2007))

Memex trails



Versioning light

```
(cur) = difference from current version, (prev) = difference from preceding version,
\mathbf{m} = \text{minor edit}, \rightarrow = \text{section edit}, \leftarrow = \text{automatic edit summary}
(latest | earliest) View (newer 50 | older 50) (20 | 50 | 100 | 250 | 500)
 Compare selected revisions

    08:15, 26 June 2008 Kotniski (talk | contribs) m (32,454 bytes)

(cur | prev)
   (Reverted edits by 81.247.219.2 (talk) to last version by Kotniski) (undo)
• (cur | prev) •
                      22:26, 25 June 2008 81.247.219.2 (talk) (32,393 bytes) (undo)

    (cur | prev) ○

                      07:16, 25 June 2008 Kotniski (talk | contribs) m (32,454 bytes)
   (Reverted edits by 81.242.180.93 (talk) to last version by Olessi) (undo)
• (cur | prev) O
                      22:21, 24 June 2008 81.242.180.93 (talk) (32,449 bytes) (undo)

    (cur | prev)

                      22:18, 24 June 2008 81.242.180.93 (talk) (32,450 bytes) (undo)
• (cur | prev) O
                      22:17, 24 June 2008 81.242.180.93 (talk) (32,447 bytes) (undo)

    (cur | prev) ○

                      22:15, 24 June 2008 81.242.180.93 (talk) (32,453 bytes) (undo)
• (cur | prev) O
                      22:10, 24 June 2008 Olessi (talk | contribs) m (32,454 bytes) (rv) (undo)
(cur | prev) ○
                      22:03, 24 June 2008 81.242.180.93 (talk) (32,452 bytes) (undo)
• (cur | prev) O
                      13:05, 23 June 2008 213.38.11.86 (talk) (32,454 bytes)
  (→Transportation: added a definite article where one was needed) (undo)

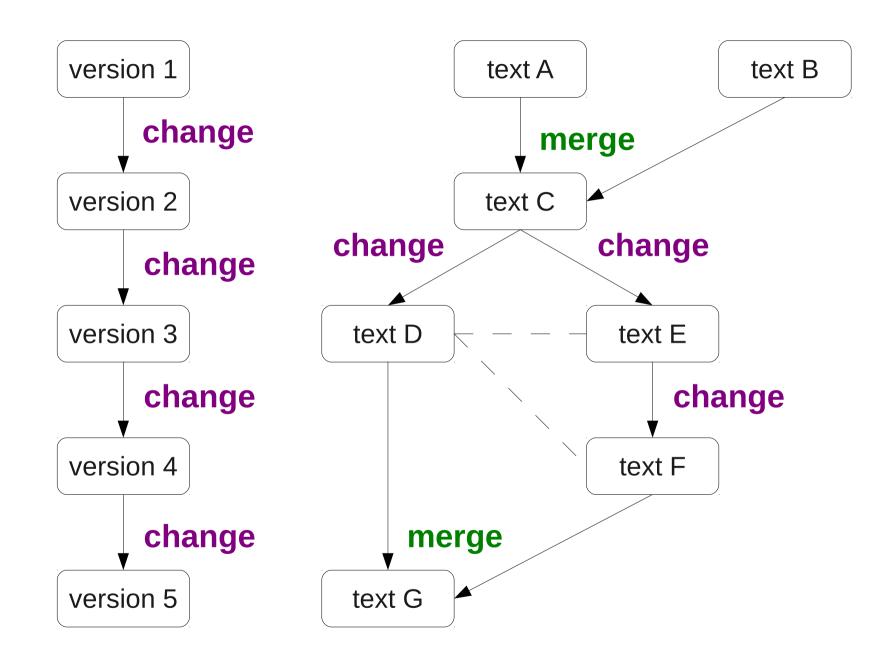
    (cur | prev) ○

                      07:50, 20 June 2008 Udibi (talk | contribs) m (32,450 bytes)
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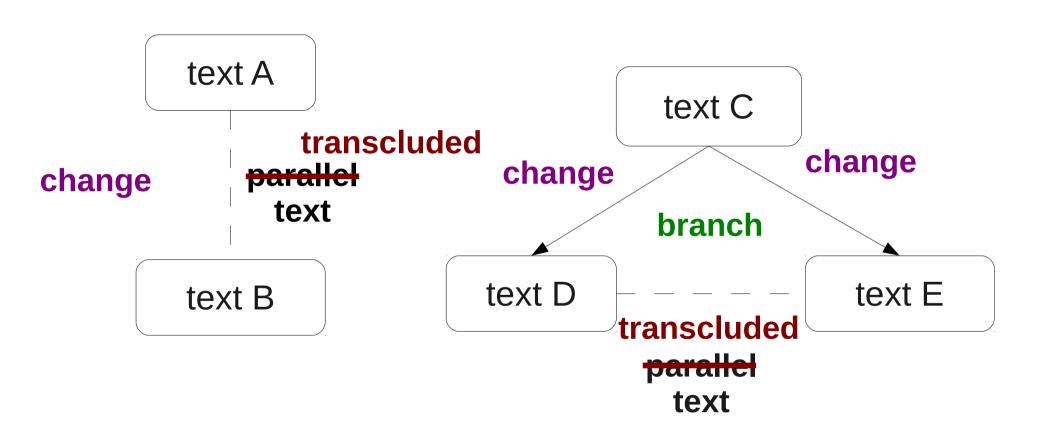
2005	2006	2007
23 pages	22 pages	16 pages
Mar 31, 2005 *	Jan 03, 2006 *	<u> Feb 14, 2007</u> *
Apr 06, 2005 *	Jan 16, 2006 *	Jun 05, 2007 *
Apr 20, 2005 *	Jan 28, 2006 *	Jun 14, 2007 *
Apr 27, 2005 *	Jan 31, 2006 *	Jun 20, 2007 *
Sep 03, 2005 *	Feb 03, 2006 *	Jun 21, 2007 *
Sep 11, 2005 *	Feb 11, 2006 *	Jun 28, 2007 *
Sep 19, 2005 *	Feb 19, 2006 *	Jun 28, 2007 *
Sep 22, 2005 *	Heb 19, 2006 *	Jul 03, 2007 *
Sep 27, 2005 *	Feb 25, 2006 *	Jul 11, 2007 *
Sep 29, 2005 *	Mar 04, 2006 *	Jul 24, 2007 *
Sep 30, 2005 *	Mar 11, 2006 *	Aug 08, 2007 *
Oct 01, 2005 *	Mar 19, 2006 *	Aug 08, 2007 *
Oct 14, 2005 *	Mar 25, 2006 *	Sep 26, 2007 *
Oct 21, 2005 *	May 26, 2006 *	Oct 14, 2007 *
Oct 23, 2005 *	Jun 25, 2006 *	Nov 27, 2007 *
Oct 28, 2005 *	Jul 25, 2006 *	Dec 01, 2007 *
Oct 31, 2005 *	Aug 23, 2006 *	
Oct 31, 2005 *	Sep 19, 2006 *	
Nov 04, 2005 *	Oct 12, 2006 *	
Nov 18, 2005 *	Oct 19, 2006 *	
Nov 30, 2005 *	Nov 01, 2005 *	
Dec 16, 2005 *	Nov 21, 2006 *	
Dec 30, 2005 *		

Wiki

Internet Archive



Types of changes links

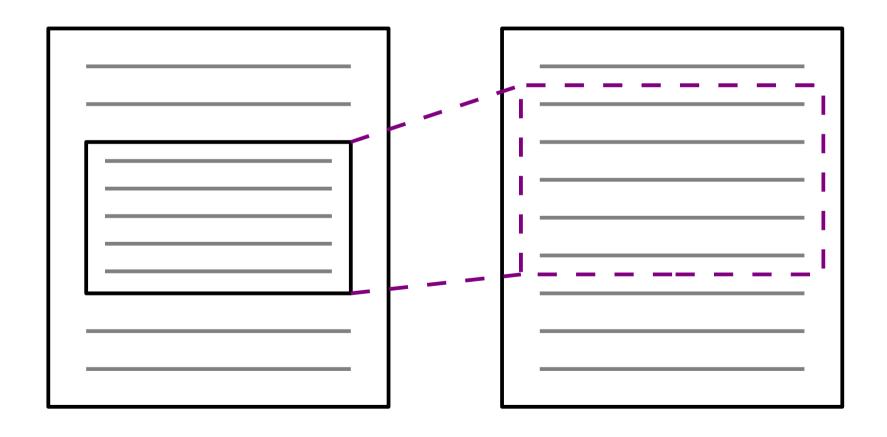


sequent versions

parallel branches

Deep links in Xanadu

An identifier for any portion/span of text (of whatever version) can be constructed.



Pathways from WWW to Xanadu

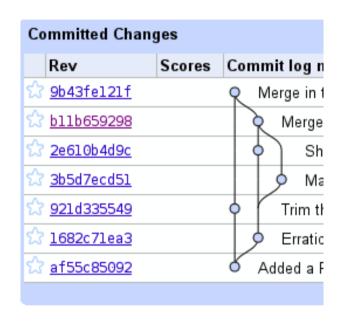
- Backlinks
 - Trackback/Pingback for notification
 - Dedicated link servers to publish and query links
- Versioning
 - Adding Time to the Web with Memento*



- Branching and Merging
 - OAI-ORE and similar RDF based models
 - Distributed Version Control Systems

* http://www.mementoweb.org/

Distributed version control systems (DVCS)



- Track changes, branches & merges
- Already used also for books
- Current systems do not scale: you always to clone the full repository*









* See question http://stackoverflow.com/questions/3098029

We can do better We can do Xanadu