Wikipedia and the Problem of Authorship. Aaron Swartz's Hypothesis

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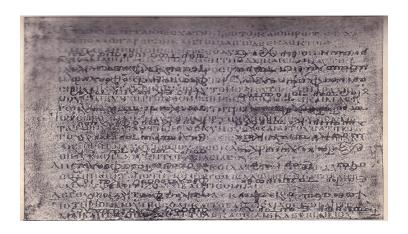
English Wikipedia Size in Volumes



Wikipedia pure text version in print (multimedia excluded)

- 12 stacks
- 2319 volumes (Britannica size)
- 5.2 million articles (as of July 2016)
- 3.068 billion words (as of July 2016)

Wikitext as a palimpsest



"you cannot change the content of Wikipedia, you can only supply a new one. "

Wikitext as a palimpsest

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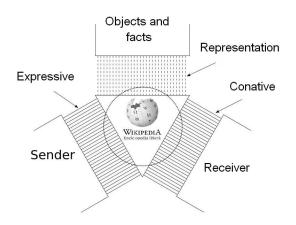
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                   07:34, 9 March 2016 Montanabw (talk | contribs) . . (41,737 bytes) (-57) . . (Ce per Biofeld) (undo | thank)
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Revision history of a Wikipedia article

Model of Communication



- Receiver = we
- Sender = ? "the free encyclopedia that anyone can edit."

The Gang of 500 vs. The Anonymous Horde

Jimmy Wales: The Gang of 500

Jimmy Wales:

- 73.4% of all the edits 2% of the users (1400 people)
- 50% of all the edits 0.7% of the users $(524 \text{ people})^1$

¹Swartz 2006

What Is an Edit?

Two types of edits:

- 1. uploading textual content
- 2. "wikisation" of a content already uploaded

Aaron Swartz: The Anonymous Horde

Top 10 contributors to "Alan Alda" entry

- 1. by edits: 7 registered vs. 3 anonymous
- 2. by letters added: 8 anonymous vs. 2 registered

Aaron Swartz: The Anonymous Horde

Apparent exceptions

- 1. translations
- 2. plagiarism

Alternatives: Persistent Word View and Persistent Word Revision

Persistent Word View

Persistent Word View (PWV) is based on

- 1. number of letters she input
- 2. the popularity of the content²

Top 10% most active editors generated 86% of Persistent Word View (Feb. 2006)

²Priedhorsky 2007

Persistent Word Revision

Persistent Word Revision (PWR) is

The sum total of subsequent revisions persisted by the words in a revision.³

³Research:Content persistence

Persistent Word View vs. Persistent Word Revision

- PWV stresses a role of a reader
- PWR editors decide of the value of the content

Verification of Swartz's thesis and Problems Arising

Research Sample

30 random entries from Polish Wikipedia ("Random article"):

- 1. Powstanie Kantonalistów
- 2. Gmina Czarnylas
- 3. Aurora (telenowela)
- 4. Podróż na Tajemniczą Wyspę
- 5. Oberwiera
- 6. Park Narodowy Ałtaj-Tawanbogd
- 7. Kościół św. Mikołaja w Wilnie
- 8 Klaffer am Hochficht
- 9. Anthaxia attenuata
- Jerzy Panek (polityk)
- 11. Wojna z terroryzmem
- 12. FSO Polonez Analog
- 13. Strange Frontier
- 14. Praszywe (Dolina Łatana)
- Chelmsley Wood

- 16. Droga krajowa B5 (Niemcy)
- 17. San Roque (Mariany Północne)
- 18. Krupy (powiat sokołowski)
- 19. Alex MacDowall
- 20. Scottish Premier League (2002/2003)
- 21. Bitwa pod Olszanica
- 22. Rodrigo Oliveira de Bittencourt
- 23. Hrabstwo White (Tennessee)
- 24. Bradford (Ohio)
- 25. Most Królowej Jadwigi w Poznaniu
- 26. Walenty Foryś
- 27. (Get A) Grip (On Yourself)
- 28. Andrzej Ekiert
- 29. Droga krajowa nr 471 (Węgry)
- 30. Wyganki

The Double Face of Wiki Text

Output Version of Wikipedia Article

Article | Ialk

Thunder (mascot)

From Wikipedia, the free encyclopedia

Thunder is the stage name for the horse who is the official live animal mascot for the Deriver Broncos football team. Three puret horses whose coats lightened with age until they turned completely white. Sharon Magness-Blake has owned all three horses, ani trainer since 1999. As of 2016, Thunder has appeared in four Super Bowls with the team since 1998. The original Thunder perfor Thunder III appeared in Super Bowl XLVIII and Super Bowl 50. Thunder III also made appearance in Times Square and on televis the pre-game promotion for Super Bowl XLVII. He routinely appears in parades, makes hospital and school visits, and attends vari airplanes, fidden in elevators, and appeared indoors at press conferences and banquets.

Thunder's duties as mascot typically include leading the team onto the field at the start of every home game, and a gallop down the touchdown or field goal. Thunder and his rider also interact with fans before the game; the horse is particularly popular with childreverved as Thunder need to remain calm in situations that would normally frighten most horses, such as being in football stadiums pyrotechnics, cheerleaders waving pom-poms, and other spectacles common to National Football League (NFL) games. Thunder a horse head mask atop a Broncos uniform.

The original Thunder, later named "Thunder, Sr.", was described as bold and courageous. He was a stallion registered as JB Kob the Broncos from 1993 until his retirement in 2004. He continued making community appearances until his death in 2009. Thunde Arabian gelding registered as Winter Solstyce. He had been the personal pleasure riding horse of Magness-Blake. Judge describ his role as mascot but eventually grew into it. He retired from mascot duties in early 2014 but appeared in the 2016 Super Bowl 50 Broncos win over the Carolina Panthers. "Thunder III", a gelding registered as Me N Myshadow, was the understudy to Thunder II, at age three when he was started under saddle. He began performing at preseason games in 2013. Although Thunder III was still Thunder III was sent to Super Bowl XLVIII because he was younger and better able to handle air travel. He is described as laid-bai performing.

Contents [hide]

Input Version of Wikipedia Article

""Thunder" is the [[stage name]] for the [[horse]] Who is the official live animal [[mascot]] for the [[herwer Broncos]] [[(Irabian horse][Arabians]] have held this role since 1993, all [[gray (horse)][gray (hors

Thunder's duties as mascot typically include leading the teams onto the field at the start of every [[Home (sports) home game field whenever the team scores a [[toundown]] or [[Field goal (American and Canadian football] field goal]]. Thunder and I the horse is particularly popular with children, who are allowed to pet him. The horses who have served as Thunder need to frighten most horses, such as being in football stadiums with thousands of cheering fans, exploding [[pyrotechnics]], cheer. Common to [[National Football Leaguel]] N.P. cames. Thunder shares mascot duties with [[Miles [mascot]Miles]] a human who

The original Thunder, later named "Thunder, Sr.", was described as bold and courageous. He was a [[stallion]] [[breed regin show] show horsel], who was team masord for the Broncos from 1999 until his retirement in 2004. He was continued making community. The substitution of the state of the

==History==

[[File:ThunderIII TD509.ogg|thumb|upright=1.3|left|Video clip of Thunder III (Me N Myshadow) making a run in 2014 after [[Pe

Back-end: Input Version of Wikipedia Article (IVA)

IVA vs. OVA

- IVA is easy to determinate, calculated automatically, but includes WikiMarkUp
- OVA is what we actually see, what counts for a reader, but is difficult to precise

Methodological problems

- Wiki MarkuUp Language
- Non-textual content: links, bibliography, tables, sounds, images, graphics, diagrams, schemes etc.
- Styles: headings, lists, tables etc.
- Tranclusion (templates)
- Photos and other multimedia (WikiCommons)

Concise as a Wikipedia Article

The size of articles

The size of articles

developed	more than 10 lines	6	20%
somehow developed	4-10 lines	6	40%
undeveloped	less than 4 lines	12	40%

- only 13% of articles had more than 50 revisions.
- average OVA in the research sample: 1961 chars
- average IVA in the research sample: 3960 chars
- average IVA in the Polish Wikipedia: 2718 chars (Feb., 2014)

The Authors

Presumptions

- In most of the cases articles up to 2 authors.
- The First Author the biggest contribution in terms of OVA
- The Second Author the second biggest contribution in terms of OVA

The First Author

- 11 of 30 articles only one human author (9 of 11 a bot contribution)
- The whole group of the First Authors consists of 29 members.
- A Wikipedist Cojan (ranked as 21st profilic editor in Wikipedia) happened to be the First Author of two random articles.
- 2 of 29 First Authors happened to be a bot: Tsca.bot and MalarzBOT.
- Only 2 of 29 First Authors were anonymous

The Second Author

- 8 of 30 articles the Second Author added some facts or notes, 22 of 30 — redaction & wikisation only
- 2 of 8 factual intervention was made by anonymous, 6 of 8 by registered users.
- A Wikipedist Lowdown (one of the most profilic editors in Wikipedia) happened to be the Second Author of 2 random articles.

Authors

The characteristics of 1st and 2nd authors of articles

	all	registered	anonymous	bot
1st authors	29	25 (86%)	2 (7%)	2 (7%)
2nd authors	21	14 (67%)	4 (19%)	3 (14%)

Copied Content Problem

A Case of "Wojna z terroryzmem" ("War on terrorism")

 At 10:34 am, on 5 August 2005, an anonymous user A added a sentence:

"Such understood "war on terrorism" caused 25 000 civilian deaths"

 At 6:01pm, on 29 August 2005 another anonymous user B removed this sentence and wrote instead a new one:

> "They [opponents of USA policy] also point out the numerous civilian casualties (several thousand) due to military operations."

- Result?
 - The user B was granted the authorship of the sentence.
 - The user A hasn't been counted as an author of the final version of the entry at all.

Conclusions. Ritual vs. Conflict View of Communication

Results

OVA Contribution

	chars	%
registered	40940	90,78%
anonymous	3353	7,43%
bots	806	1,79%

Pareto Principle vs. Long Tail

- ullet Gang of 500 Theory o Pareto principle
- Anonymous Horde \rightarrow Long Tail (Anderson 2006)

Ritual View of Communication

"In a ritual definition, communication is linked to terms such as 'sharing,' 'participation,' 'association,' 'fellowship,' and 'the possession of a common faith.' This definition exploits the ancient identity and common roots of the terms 'commonness,' 'communion,' 'community,' and 'communication.' A ritual view of communication is directed not toward the extension of messages in space, but toward the maintenance of society in time; not the act of imparting information, but the representation of shared beliefs."⁴

⁴Carey 2009: 15

Conflict View of Communication



Conflict View of Communication⁵

⁵Conf. Jemielniak 2006: 124

References

- 1. Anderson Ch. 2006, The Long Tail: Why the Future of Business Is Selling Less of More. New York: Hyperion.
- Carey J. W. 2009. Communication as Culture: Essays on Media and Society. New York: Routledge.
- 3. Jemielniak, D. 2013. Życie wirtualnych dzikich Netnografia Wikipedii, największego projektu współtworzonego przez ludzi, Warsaw: Poltext.
- 4. Swartz, A. 2006. Who Writes Wikipedia. (n.d.) http://www.aaronsw.com/weblog/whowriteswikipedia
- 5. Swartz, A. nd. "Who Writes Wikipedia?" (Swartz 2006), http://www.aaronsw.com/2002/whowriteswikipedia/swartz2006