WikiTruthiness

Displaying the level of contentiousness of Wikipedia pages via a coloring scheme.

http://www.wikitruthiness.com

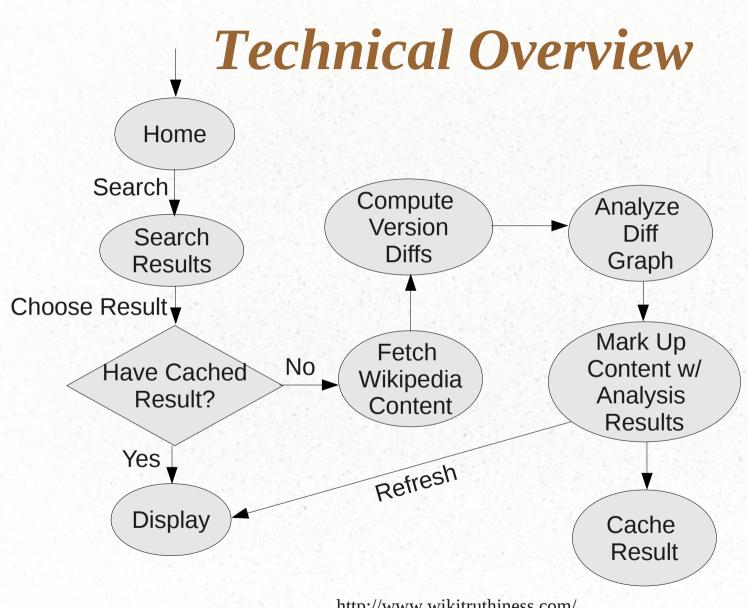
Katherine Baker David Koenig

Aaron Miller Cullen Walsh

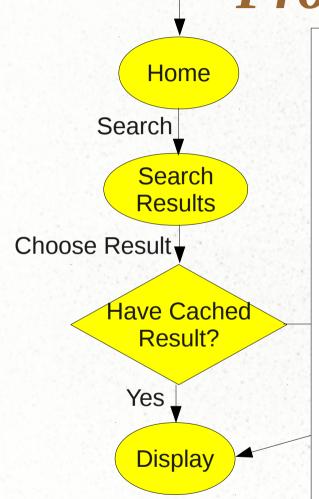
Aspirations v. Reality

Goals: Total article content contention determined from reversions, edit wars, other indicators at a paragraph/sentence level.

Final Results: Determine recent article contention on a sentence → word level by assigning scores based on content insertion, deletion, and modification.

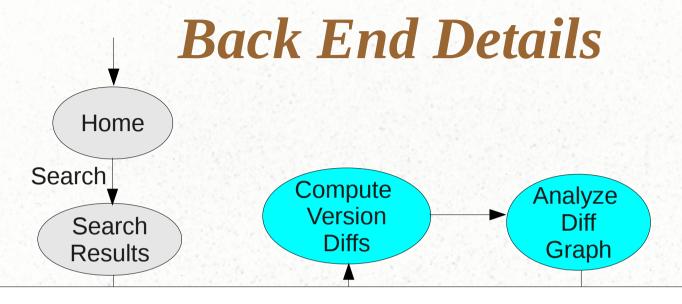


Front End Details



- <u>Search Utilizing Google Search API</u>: initiate processing (Ruby on Rails)
- Wikipedia Scraper: fetch data for processing (RoR)
- Render Output w/ Mediawiki API: display the results (Ruby on Rails)

Work by Cullen Walsh



- <u>Difference Analysis:</u>
 version differences graph (Python)
- Contention Identification: linear scaling (KDE approx.) (Python)

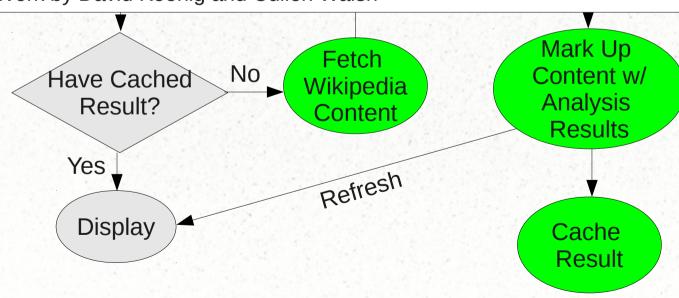
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Middleware Details

AWS

- S3 Caching Results & Wikipedia Data
- EC2 small instance for front end; high CPU instance for analysis
- •MySQL
 - Queuing requests, storing Wikipedia article versions (30 most recent)

Work by David Koenig and Cullen Walsh



Demonstration

WikiTruthiness

Search:	Basic Linux		Search
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Previous Page Next Page

BasicLinux - Wikipedia, the free encyclopedia
 BasicLinux also known as BasLin ,BL3, or BasLinux, is a mini Linux distribution optimized for old (386 - 486) PCs,

and laptops which uses the commandline or \dots

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WikiTruthiness

earch: Search

BasicLinux

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Please help improve this article by expanding it. Further information might be found on the talk

BasicLinux also known as BasLin , BL3 , or BasLinux , is a mini Linux distribution optimized for old (386 - 486) PCs , and laptops which uses the commandline or a simple GUI .

It's based on stripped down version of Slackware 3. 5 and uses an obsolete, but small, v2. 2. 26 kernel with busybox to provide a low-RAM Linux [1], capable of browsing the web, doing email, and functioning as an X terminal.

It's offered in 2 versions, a hard drive one that boots from DOS, and a floppy drive one that uses 2 disks.

Both versions can be used with an 386 CPU. The Hard Drive installable version requires 3 MB of RAM and 20 MB of disk space, plus a bootable DOS. The floppy version needs 12 MB of RAM.

Installed applications include: IceWM MagicPoint Mutt mp321

References

1. ^ http://distro. ibiblio. org/pub/linux/distributions/baslinux/

External links

- BasicLinux official site
- BasicLinux Mailing List Archives
- BasicLinux at Freshmeat
- BasicLinux on Softpedia

/ • d • e						Linux di	stributions				
Arch Linux	CentOS	Debian	Fedora	Gentoo	Knoppix	Linux Mint	Mandriva	PCLinuxOS	Red Hat Enterprise Linux	Slackware	�
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Project for CSE 454, University of Washington, Fall 2010
Contact us at (ajmiller|ckwalsh|kbaker4|koenig)@cs.washington.edu
Search powered by Google

Experimental Methodology

- Compare against related work: WikiTrust
- WikiTrust highlights untrustworthy words in a Wikipedia article based on many parameters
- Compute precision, recall against WikiTrust
- <u>True Positives</u> = # blocks which contain > 0 WikiTrust highlighted words
- <u>False Positives</u> = # blocks which do not contain any WikiTrust highlighted words
- <u>False Negatives</u> = # WikiTrust highlighted words which are not within our blocks

Experimental Results

	Precision	Recall
Worst	10.84%	52.43%
Average	20.25%	68.93%
Best	38.82%	79.37%

Results of evaluating 33 articles

Work by Katherine Baker and Aaron Miller

Challenges

- Getting the algorithm and coloring to work
- Obtaining cache coherency across memcached, S3, and MySQL
- Comparing data formats of WikiTrust and WikiTruthiness outputs
- Retrieving articles from Wikipedia in a timely fashion

What We Learned

- Mixing technologies and having them interface is difficult
- Choosing your development language is important (e.g. Python not always best)
- Limited version history to 30 most current for speed; in production, would use more revisions
- Good evaluation requires significant time and effort, esp. when crawling and processingintensive algorithms are involved

Questions

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