

Webis Student Presentations WS2014/15

- ▶ Argumentation Analysis in Newspaper Articles
- ▶ Morning Morality
- ▶ The Super-document
- ▶ Netspeak Query Log Analysis
- ▶ Informative Linguistic Knowledge Extraction from Wikipedia
- ▶ Elastic Search and the Clueweb
- ▶ Passphone Protocol Analysis with Avispa
- ▶ Beta Web
- ▶ SimHash as a Service: Scaling Near-Duplicate Detection
- ▶ One Class Classification of Vandalism in the Wikipedia

Modeling Information Extraction Problems using Argumentation Theory

Speakers:

Philip Drewes
Jonas Köhler

Motivation:

- Opinion mining
- Summaries of large texts
- Rating the validity of arguments in texts
- Search for arguments for a given hypothesis

⇒ We want to have a computable model of argumentation for human language.

A computational model of argumentation

nodes: **argumentative units**
(Claims, Premises)

arcs: **relations between arguments**
(Attacks, Supports, ...)

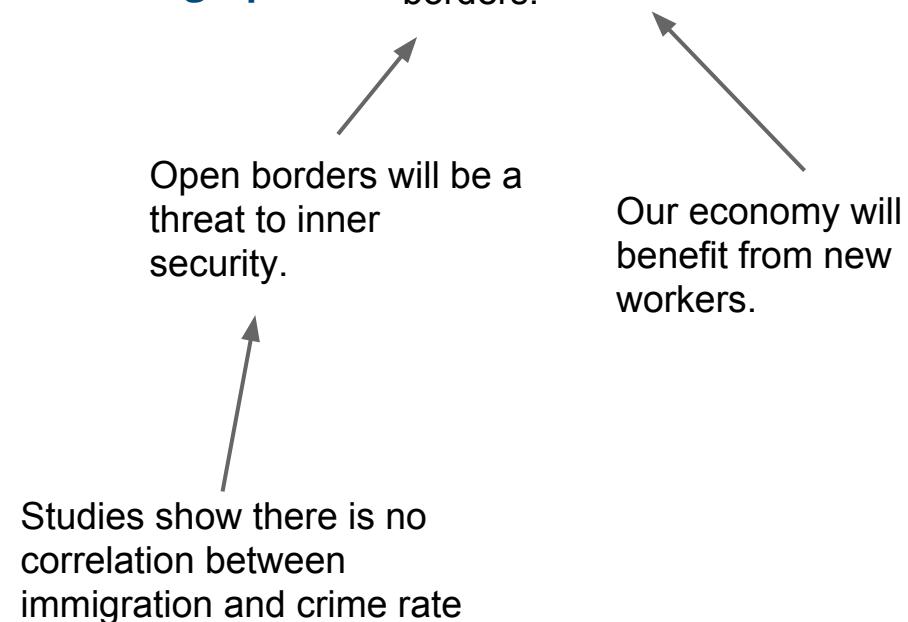
Questions:

When do arguments contradict?

How are arguments related?

What are important arguments?

directed graph



A computational model of argumentation

Searching for arguments involves the task of detecting them

Classification:

Is a part of a text an argumentative unit? \Rightarrow **binary** { yes, no }

What type of argumentative unit? \Rightarrow **nominal** { claim, premise, ... }

Are two argumentative units related? \Rightarrow **binary** { yes, no }

What type of relation is it? \Rightarrow **nominal** { attack, support, ... }

...

\Rightarrow Supervised learning problem

\Rightarrow which features?

A computational model of argumentation

Features (mostly NLP based):

Lexical: number of punctuation marks in a part of text

Syntactic: depth of the parse tree (linguistics)

Indicators: are discourse marker present?

Contextual: number of sub clauses in the sentences around the part of interest

Heavy use of the **Stanford NLP** Java library:

⇒ training data?

⇒ human annotation!

```
import edu.stanford.nlp.util.CoreMap;
import edu.stanford.nlp.pipeline.*;
import edu.stanford.nlp.ling.CoreAnnotations.*;
import edu.stanford.nlp.ling.CoreLabel;

public class NLPTools {

    protected StanfordCoreNLP pipeline;

    public NLPTools () {
        Properties props = new Properties();
        props.setProperty("annotators", " tokenize,ssplit,pos ,parse");
        props.setProperty("tokenize.language", "en");
        initPipeline(props);
    }
}
```

Creating a corpus for an argument classifier

Annotation:

Humans will annotate argumentative texts by hand.

The texts are taken from online newspapers (opinion section).

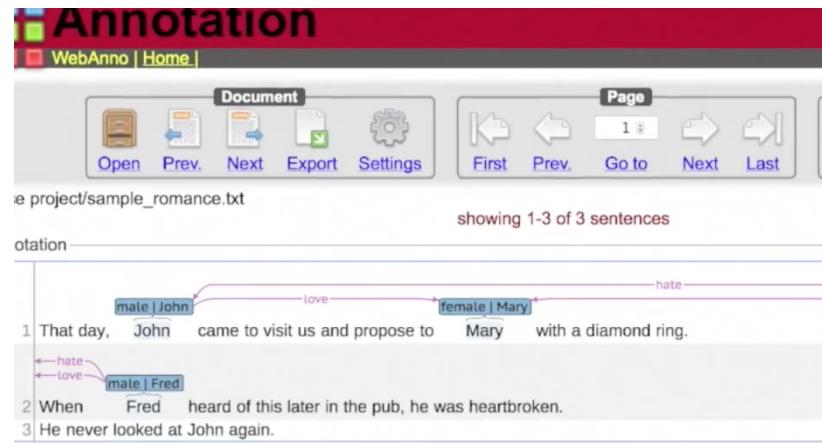
The tool for annotation is web-based. The annotations are saved to XML files.

Question:

Don't we need 1000s of annotations?

Who will do all this work?

⇒ **Crowdsourcing!**



Outlook:

What we have done so far:

- Implementing a classification framework, which is
 - Calculating the feature vectors
 - Reproducing the state of the art in classification
 - Stab et al.¹ achieve ~72% precision on an essay corpus
 - We are able to achieve ~68%
- Gathering the text data (automated web scraping)
- Designing the annotation job for the digital crowd.

¹ Stab C., Gurevych, I., Identifying Argumentative Discourse Structures in Persuasive Essays *Conference on Empirical Methods in Natural Language Processing (EMNLP 2014)*, p. 46-56, Association for Computational Linguistics, October 2014.

Outlook:

What we will do until February 2015 / What may come in the long term

- Let the crowd annotate our texts and build the training corpus
- Add additional features and improve the classification
 - Extend the model? Refine the classification?
- Analyze the data
 - Which questions may arise?
- Search for argument components
 - Only possible if there is a good model + classification

Thank you for your listening!

Questions?

Morning Morality on the Web

Webis presentation

2014-12-18

Morning Morality on the Web

foundation

Project foundation and discussion starter:

- Kouchaki, Maryam, and Isaac H. Smith. "The Morning Morality Effect The Influence of Time of Day on Unethical Behavior." *Psychological science* 25 (2013):95-102

Content:

- People's ethical behaviour is changing throughout the day.
- There is a „self-regulatory“ resource, which depletes the longer someone is behaving good.
- Therefore, a person is more likely to cheat and lie in the afternoon or evening than in the morning.

Morning Morality on the Web

previous work

Is such a phenomenon measurable on the Web?

- In an effort to show such an effect, Wikipedia-Vandalism cases were analyzed.

What is Wikipedia-Vandalism?

Inappropriate change, addition or removal of Wikipedia content, like adding irrelevant, abusive words, deleting pages or purposely adding false information.

Mick Pearce, the architect, therefore took an alternative approach. Because of its altitude, Harare has a [[temperate]] climate despite being in the tropics, and the typical daily temperature swing is 10 to 14°C. [\[{{cite web|title=Eastgate Development, Harare, Zimbabwe|url=http://www.arup.com/feature.cfm?pageid=292|publisher=Arup|archiveurl=https://web.archive.org/web/20041114141220/http://www.arup.com/feature.cfm?pageid=292|archivedate=14 November 2004}}\]](http://www.arup.com/feature.cfm?pageid=292) This makes a mechanical or passive cooling system a viable alternative to artificial air-conditioning.

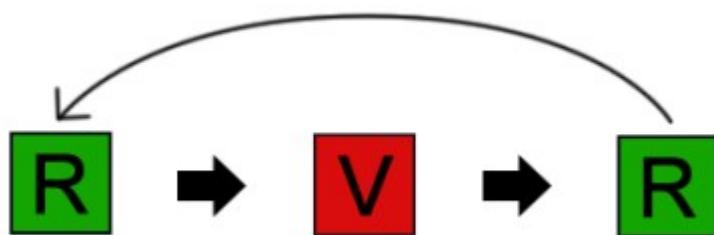
Mick Pearce, the architect, therefore took an alternative approach. Because of its altitude, Harare has a [[temperate]] climate despite being in the tropics, and the typical daily temperature swing is 10 to 14°C. [\[{{cite web|title=Eastgate Development, Harare, Zimbabwe|url=http://www.arup.com/feature.cfm?pageid=292|publisher=Arup|archiveurl=https://web.archive.org/web/20041114141220/http://www.arup.com/feature.cfm?pageid=292|archivedate=14 November 2004}}\]](http://www.arup.com/feature.cfm?pageid=292) This makes a mechanical or passive cooling system a viable alternative to artificial air-conditioning. **Jarno is gay** [\[{{ref}}](http://www.arup.com/feature.cfm?pageid=292)

Morning Morality on the Web

Wikipedia Vandalism

How to get Wikipedia-Vandalism data?

- Scan through the history of edits for a Simple Vandalism Pattern.
- A revert back to a revision before an edit(V) is most often a case of vandalism.
- Detection is done by users and bots.



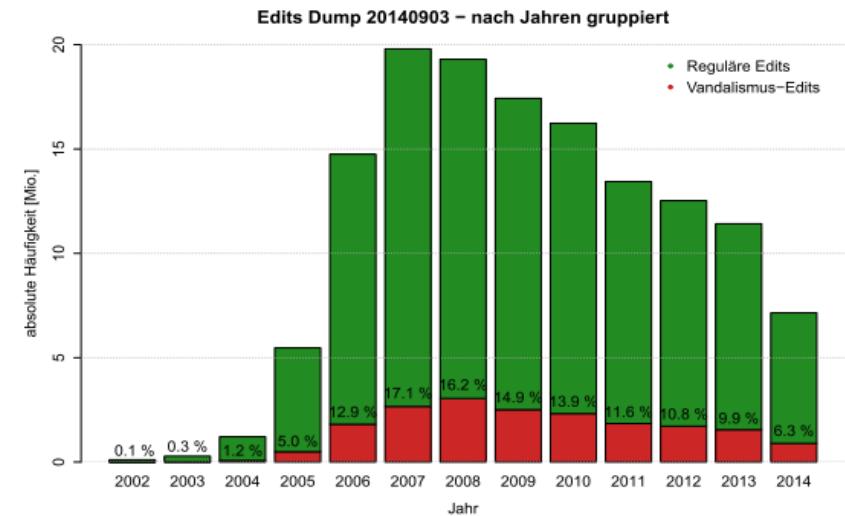
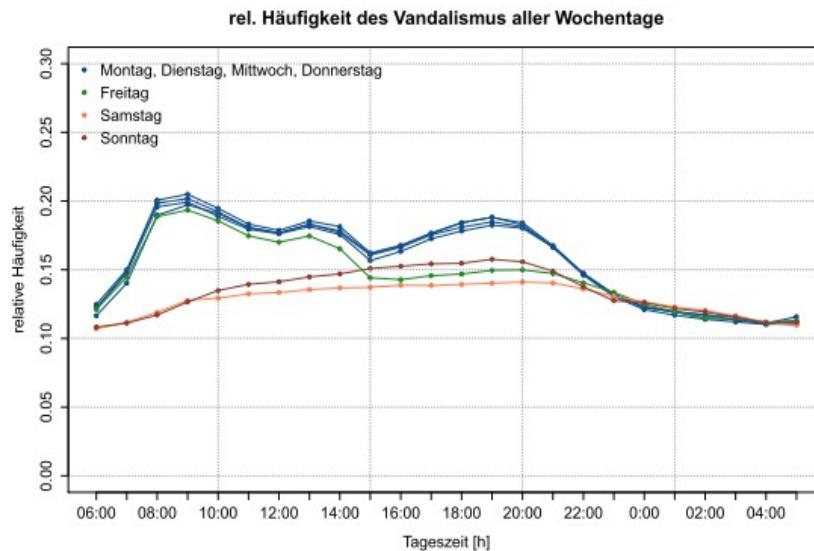
Morning Morality on the Web

previous work

Finding the „Morning Morality Effect“ in Wikipedia-Vandalism data.

Work of the previous project group:

- Analyzing correlations between local time and vandalism.
- Geolocation of vandal - IP addresses for local edit time.



Morning Morality on the Web

current work

Finding more correlation between bad behaviour on the Web and exogenous/external factors, e.g. , weather, time and region.

What we have done so far/are working on:

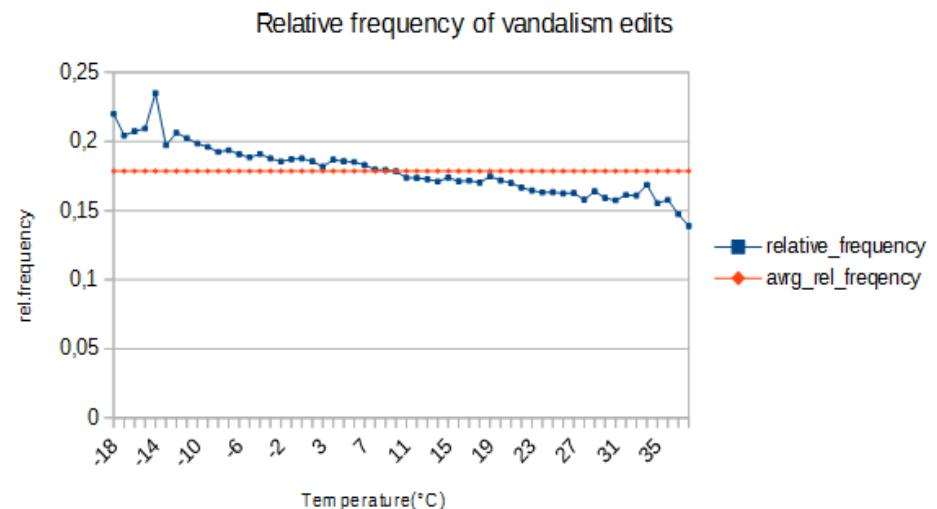
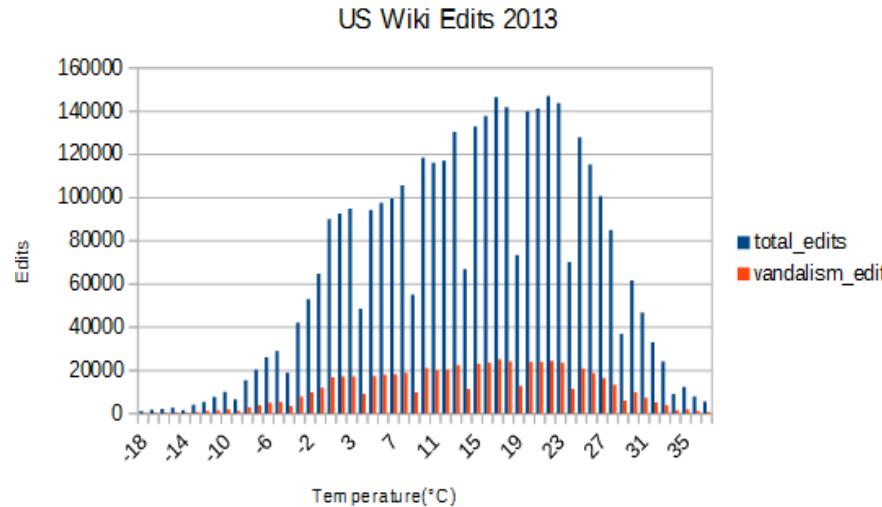
- Geolocate the given vandalism and normal edit dumps of the United States for 2013.
- Correleated them with the NOAA National Weather Service data (hourly weather data from 1.700 weather stations in the US over the last 15 years).

Morning Morality on the Web

current work

Early data -

Work still in progress :



Morning Morality on the Web

future work

- Analyze data for different Climate Zones and weather effects like rain and snow.
- Changing vandalism frequency in correlation with weather over time, e.g., annual and monthly time periods
- Different locations: comparisons of different states, rural and metropolitan areas.

The Super Document

A Result Presentation Paradigm for Exploratory Search Tasks

Participants:

Kevin Reinartz, Janek Bevendorff,
Kristof Komlossy, Carsten Tetens, Sebastian Gottschlich

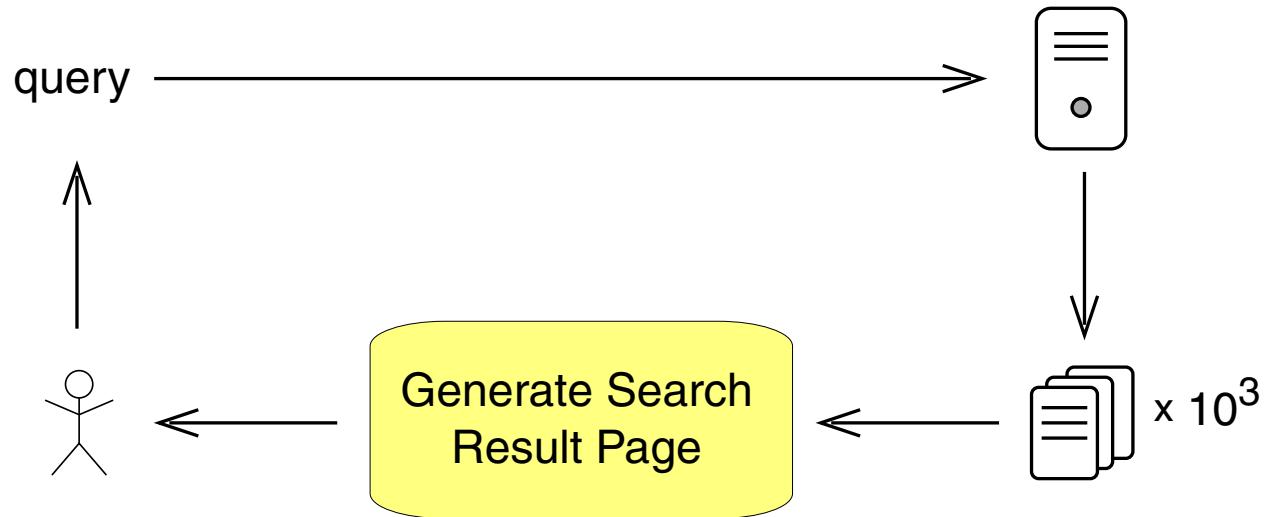
Tim Gollub

Michael Völske

Benno Stein

Project: SuperSERP

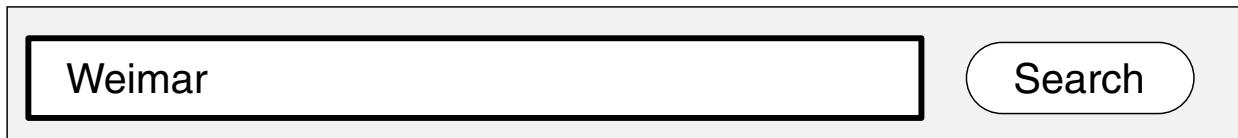
Web Search: Problem Description



Given the relevant documents for a query, how to present them to the user?

Project: SuperSERP

Traditional Presentation Paradigm: Ranked Result Lists



1. _____

2. _____

3. _____

- ⋮

- Compile a list of document descriptions linking to the original resources.
- Order based on the likelihood that a document contains relevant information.

Project: SuperSERP

General

- Alternative result presentation paradigms for open or undirected informational queries
- General Approach: Increase accessibility of resources in the limit of a search result list.
- Observation: An effective domain independent paradigm is hard to find.
- We concentrate on two applications:
 - Related Work Search
 - City Search

Application 1: Related Work Search

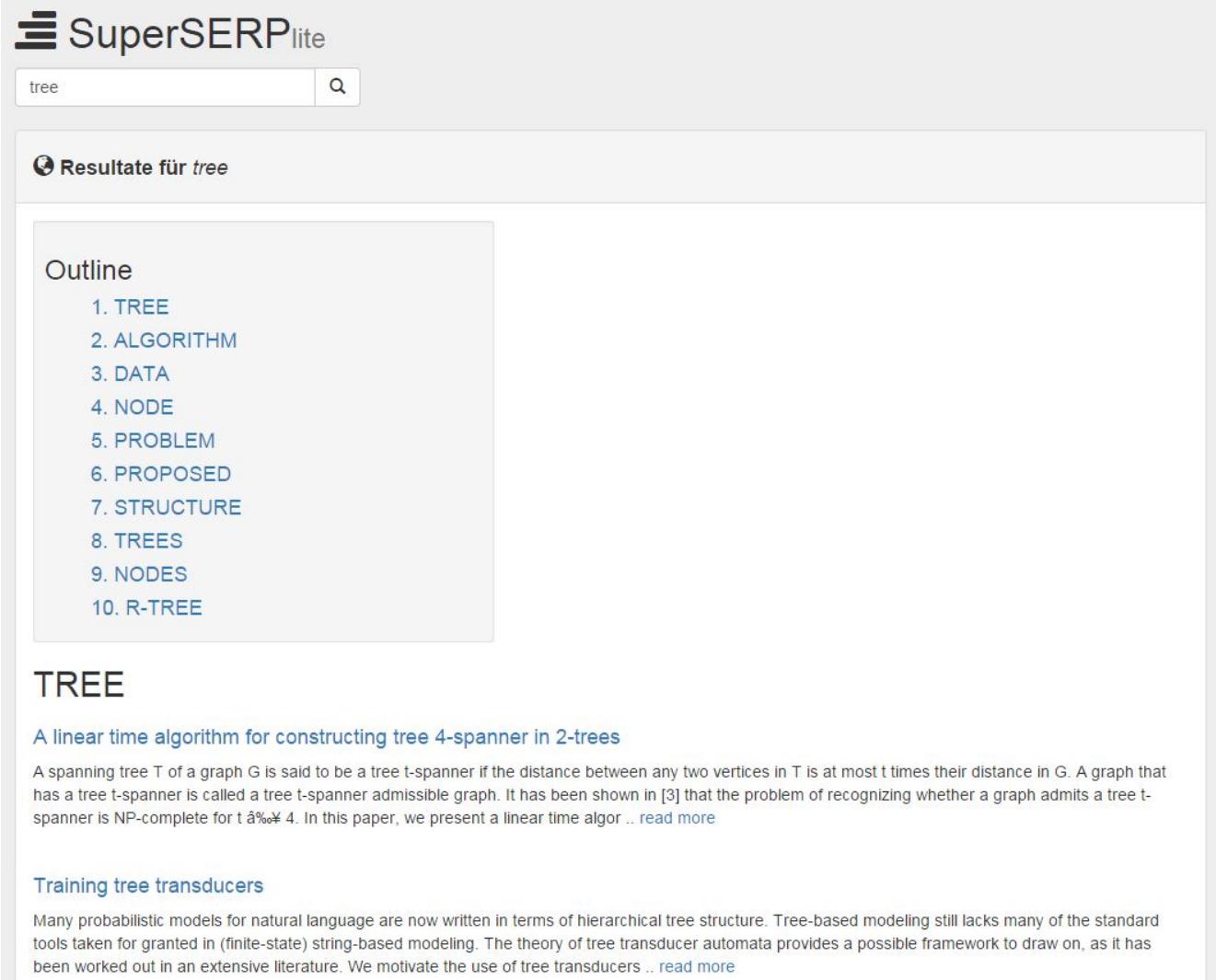
Current State

- ❑ LUCENE Index of webis-csp corpus (approx. 177.000 papers)
- ❑ Keyphrase extraction (KpMinerExtractor from aitools)
- ❑ MUSTACHE Template-Engine for search result presentation
- ❑ Search result based on keyphrases (currently)



Application 1: Related Work Search

Current user interface



The screenshot shows the SuperSERP lite search interface. At the top, there is a search bar with the query "tree" and a magnifying glass icon. Below the search bar, the text "Resultate für tree" is displayed, followed by a "Outline" section containing a numbered list of topics: 1. TREE, 2. ALGORITHM, 3. DATA, 4. NODE, 5. PROBLEM, 6. PROPOSED, 7. STRUCTURE, 8. TREES, 9. NODES, and 10. R-TREE. The "TREE" entry in the outline is highlighted in blue. Below the outline, the title "TREE" is shown in large, bold, black capital letters. Underneath the title, the text "A linear time algorithm for constructing tree 4-spanner in 2-trees" is displayed in blue, followed by a detailed description of the concept of a tree t-spanner and a link to a paper: "A spanning tree T of a graph G is said to be a tree t -spanner if the distance between any two vertices in T is at most t times their distance in G . A graph that has a tree t -spanner is called a tree t -spanner admissible graph. It has been shown in [3] that the problem of recognizing whether a graph admits a tree t -spanner is NP-complete for $t \geq 4$. In this paper, we present a linear time algorithm for constructing a tree 4-spanner in 2-trees. ... read more". At the bottom, there is a section titled "Training tree transducers" with a corresponding link.

Outline

- 1. TREE
- 2. ALGORITHM
- 3. DATA
- 4. NODE
- 5. PROBLEM
- 6. PROPOSED
- 7. STRUCTURE
- 8. TREES
- 9. NODES
- 10. R-TREE

TREE

A linear time algorithm for constructing tree 4-spanner in 2-trees

A spanning tree T of a graph G is said to be a tree t -spanner if the distance between any two vertices in T is at most t times their distance in G . A graph that has a tree t -spanner is called a tree t -spanner admissible graph. It has been shown in [3] that the problem of recognizing whether a graph admits a tree t -spanner is NP-complete for $t \geq 4$. In this paper, we present a linear time algorithm for constructing a tree 4-spanner in 2-trees. ... read more

Training tree transducers

Many probabilistic models for natural language are now written in terms of hierarchical tree structure. Tree-based modeling still lacks many of the standard tools taken for granted in (finite-state) string-based modeling. The theory of tree transducer automata provides a possible framework to draw on, as it has been worked out in an extensive literature. We motivate the use of tree transducers ... read more

Application 1: Related Work Search

Future Work

- Improved user interaction:
 - Query by document
 - Manual “topic points”
 - Quality of clustering statistics
- Topic Model for Indexing & keyquery compositing
- Efficient clustering algorithm for outline generating

Application 2: City Search

Current State

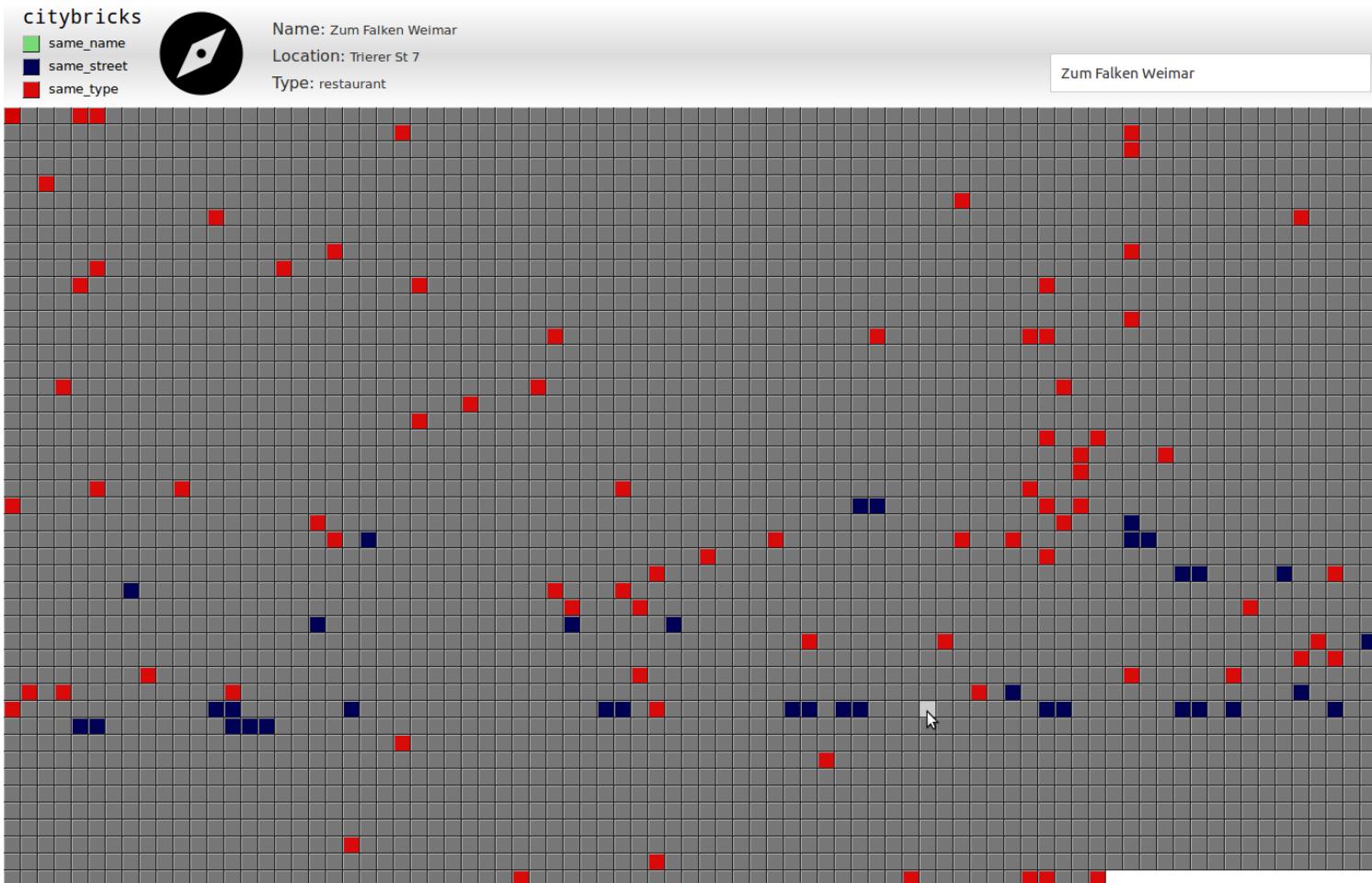
- ❑ collected Google Places
- ❑ using *Bigdata* as triple store (replacing *Fuseki*)
- ❑ read Google Places as RDF triples into triple store
- ❑ generated random people at random locations

CityBricks:

- ❑ each place is a brick
- ❑ sorted from north to south
- ❑ highlight on search & similarity

Application 2: City Search

CityBricks



Application 2: City Search

CityTales

- take the user on a journey through the city
- create a mashup using content & statistics
- streets from a city + Random users and locations
- from various sources (Google Places, Flickr ...)

citytales weimar People: 10.000 Places: 3.702 Streets: 132

Welcome to the streets of Weimar.



Arno-Holz St



 **Queralt**
Arno-Holz St 27
geologist

Amsel Path



 **Sachverständigenbüro für Verkehrswertermittlung Drusche V. Dipl.-Ing. Amsel Path 3 establishment**

Yael
Amsel Path 1 travel agent



Im Dorfe



 **Ignaz**
Im Dorfe 1 builder

Gelena
Im Dorfe 1 animator



Application 2: City Search

Future Work

- ❑ Improve storytelling, infographic inspired UI
- ❑ Add sources like news, official statistics, social network, reviews
- ❑ Use focused crawling (Heritrix) to obtain web pages related to Weimar.

Netspeak Query Log Analysis

Amir Othman

CVS:

code-in-progress/webisstud/wstud-netspeak-analysis

code-in-progress/webisstud/wstud-netspeak-analysis-query-detection

code-in-progress/webisstud/wstud-netspeak-analysis-query-browser

data-in-progress/wstud-netspeak-analysis

Netspeak

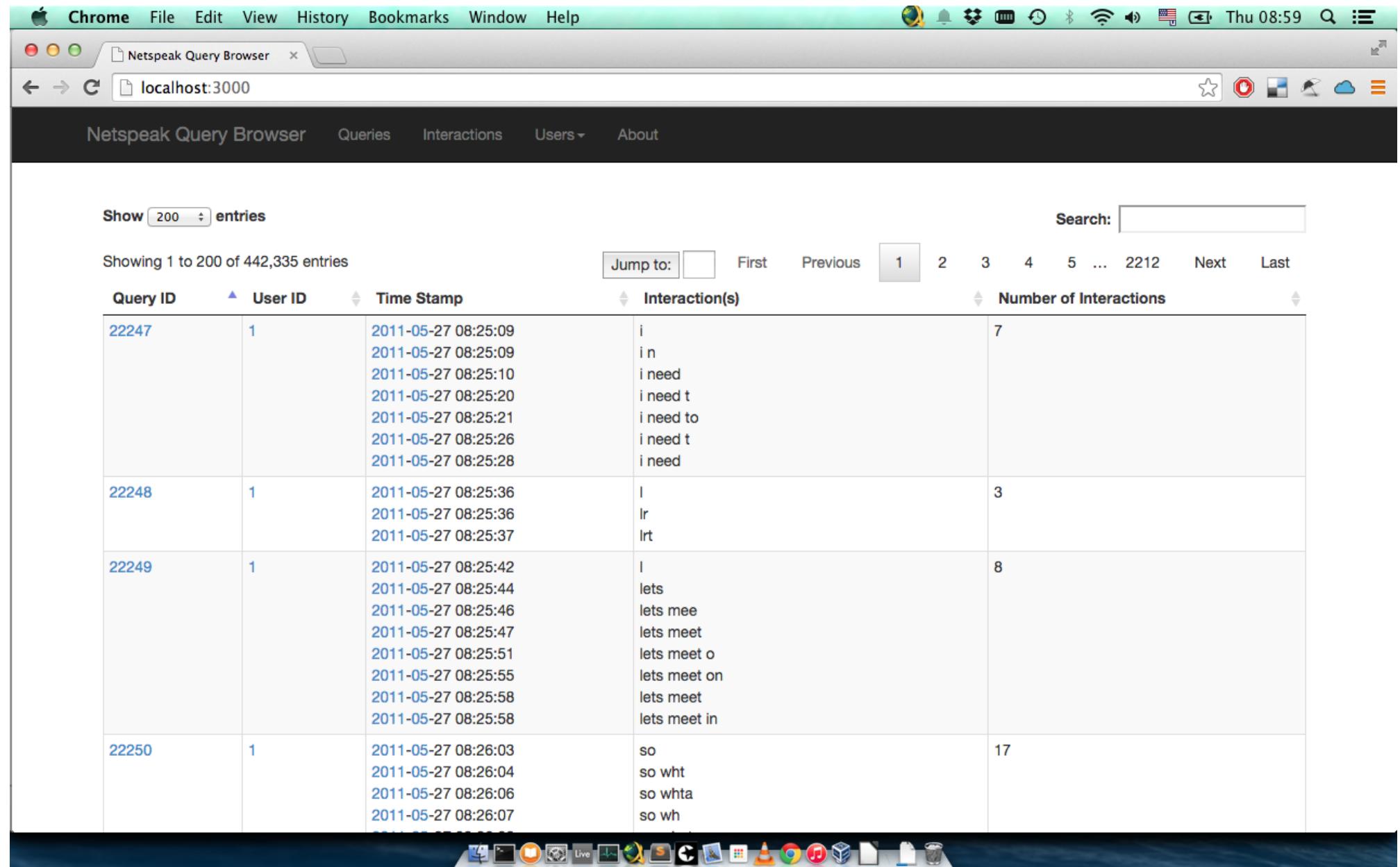
- Service to check usage of words
- ~2000 Users a month
- Log from March 2009 to February 2014

Query Detection

- Decision Tree, using log from 100 different IPs as groundtruth
- Features: overlapping characters, term overlap, character Jaccard coefficient, trigram character cosine similarity, Levenshtein distance, timegap

Netspeak Query Log Browser

- Facilitate analysis - added visualizations and interlinking
- Exploring
- Add Notes



Chrome File Edit View History Bookmarks Window Help

Thu 09:00

Netspeak Query Browser x

localhost:3000/queries/22247

Netspeak Query Browser Queries Interactions Users About

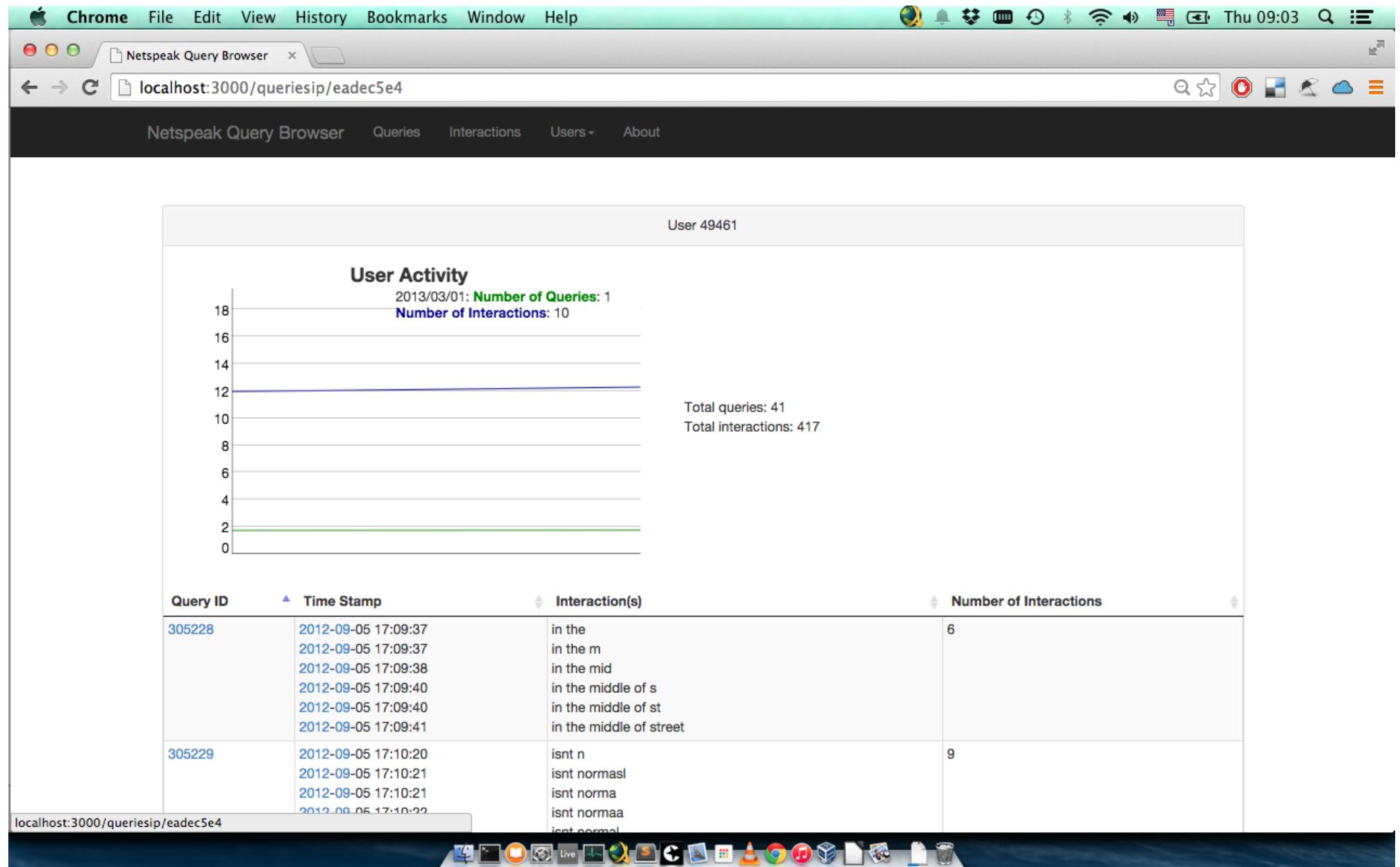
Time Stamp	Interaction
2011-05-27 08:25:09	i
2011-05-27 08:25:09	i n
2011-05-27 08:25:10	i need
2011-05-27 08:25:20	i need t
2011-05-27 08:25:21	i need to
2011-05-27 08:25:26	i need t
2011-05-27 08:25:28	i need

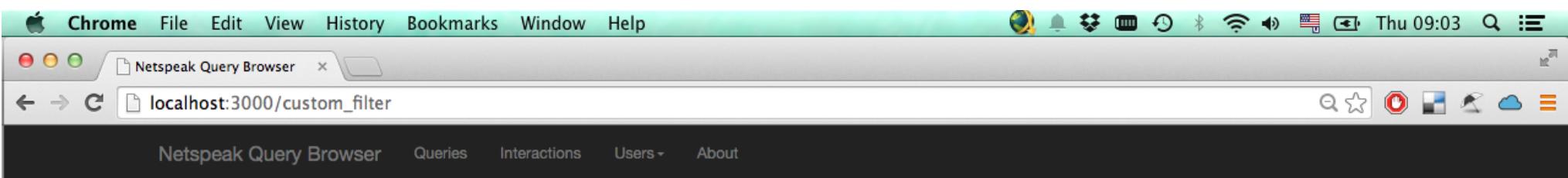
Showing 1 to 7 of 7 entries

previous query next query

localhost:3000/queries/22247







Custom Search

Minimum Duration of presence[s]:

Minimum Number of queries:

Minimum Number of interactions:

First Appeared:

Last Appeared:

February 2014						
Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	1
2	3	4	5	6	7	8



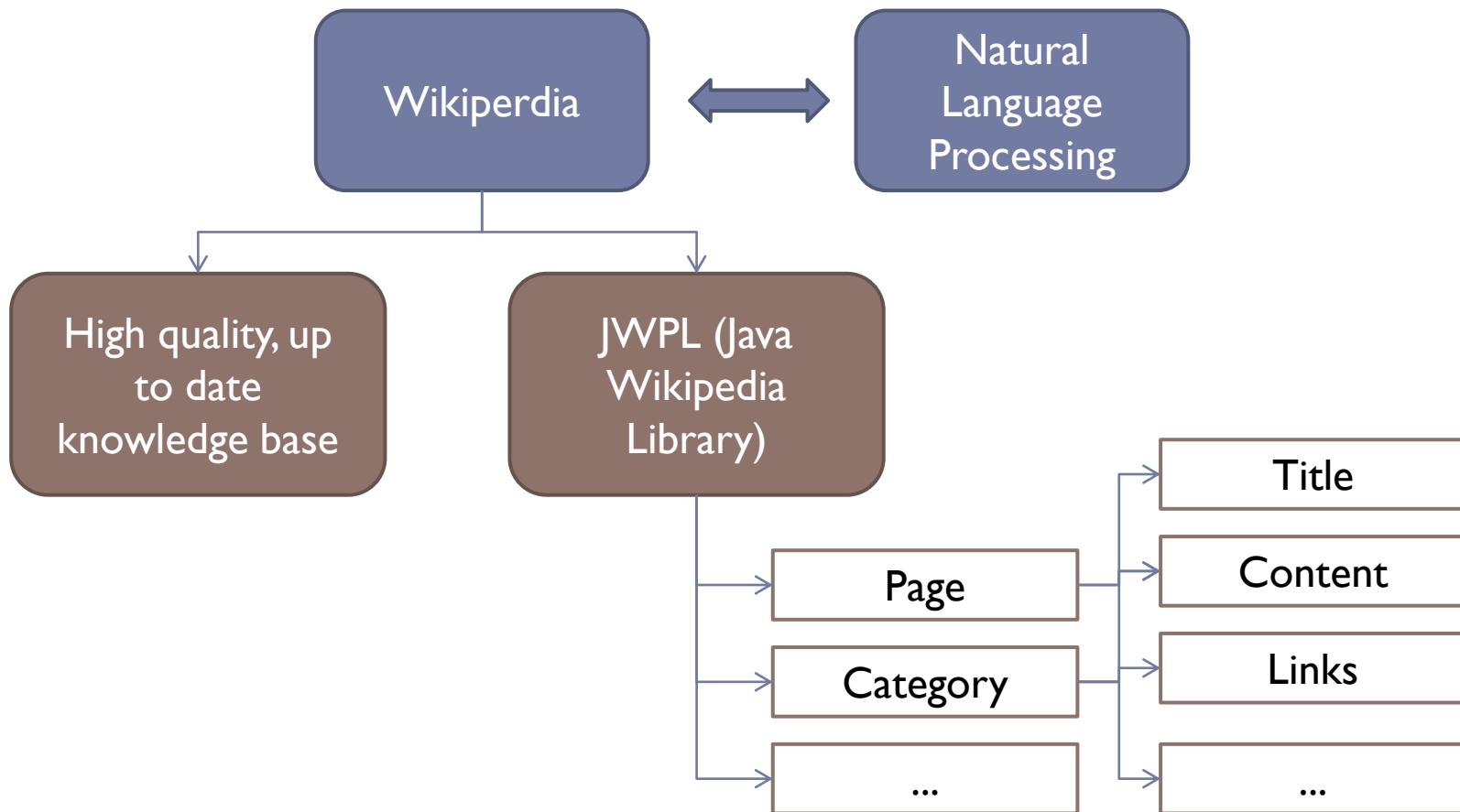
Ideas

- Learning effect
- Identifiable user

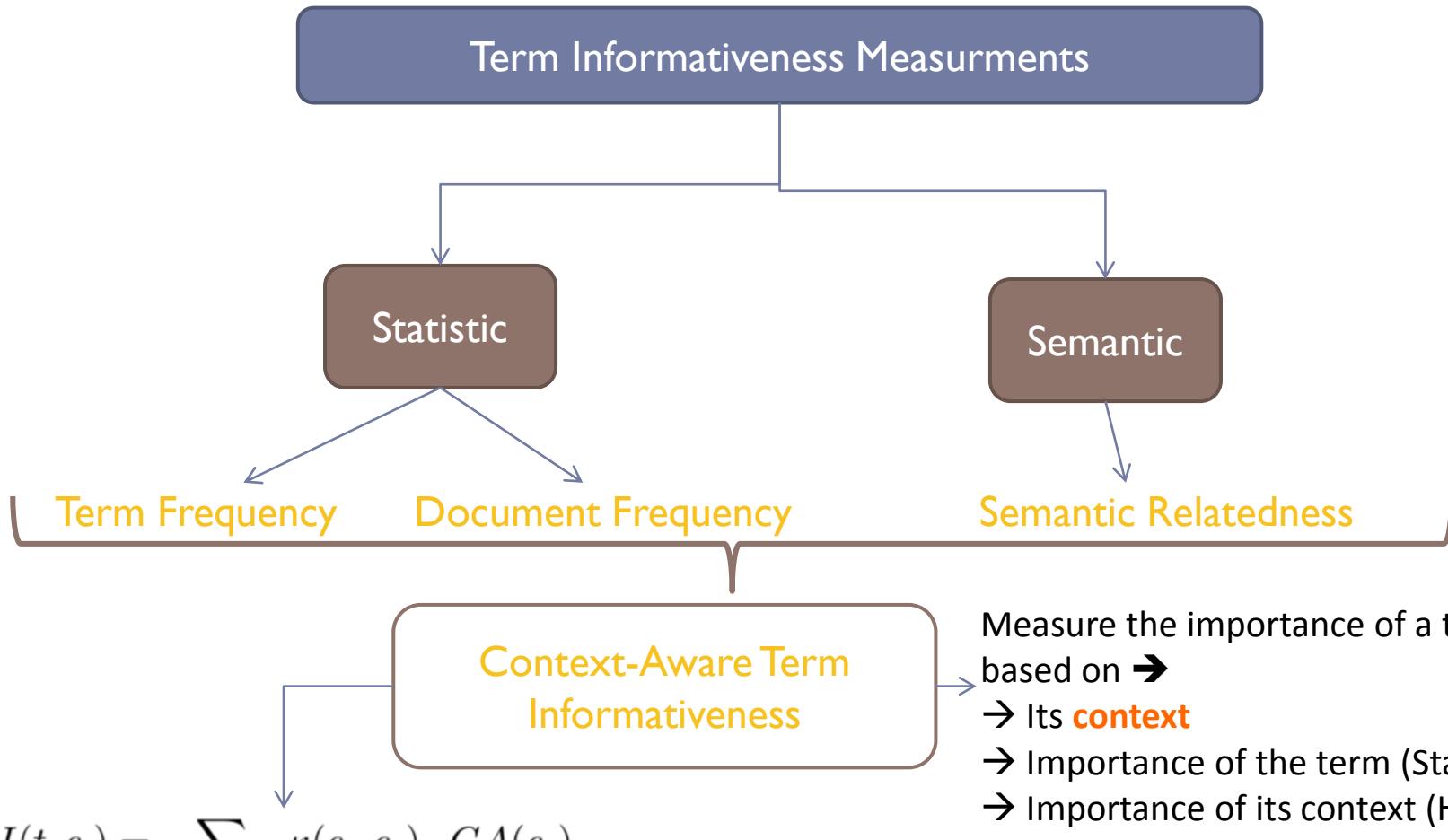
Informative Linguistic Knowledge Extraction from Wikipedia

Roxanne El Baff (1st Semester CSM Student)
Supervisor : Khalid El Khatib

Wikipidea and JWPL



Measuring Term Informativeness



Elasticsearch and the Clueweb

A Work-in-Progress Presentation

Janek Bevendorff

Elasticsearch and the Clueweb

What is the Clueweb?

some data:

- ❑ web crawl of 1,040,809,705 documents
- ❑ 5TB of compressed data (25TB uncompressed)
- ❑ 4,780,950,903 unique URLs
- ❑ tons of spam

Elasticsearch and the Clueweb

And what do we do with it?



The screenshot shows a search interface with a logo for 'CHAT NOIR' featuring a black cat. A search bar contains the query 'obama family tree'. A yellow search button with a magnifying glass icon is to the right. Below the search bar, the text '63481 other results (30.184 seconds) from 32/40 responding nodes' is displayed. The results list includes:

- allAfrica.com: Kenya: Country to Launch Obama Family Tree (Page 1 of 1)**
<http://allAfrica.com/stories/200901260024.html>
istory books, especially on the Luo migration," he said. M'Reria said his department would come up with the draft on Obama's family tree, which would be adopted by the Ministry of Heritage and Culture. In a related development, the Kenyan government sai
- Genealogy Ireland - Obama Irish Family Tree**
http://www.eneclann.ie/Research/genealogy_Obama_family_tree.html
Genealogy Ireland - Obama Irish Family Tree Michael Kearney, d. 1762 Master of the Guild of Barber Surgeons, 1726 Joseph Kearney, b.ca.1698 buried 20th Jan.
- Japan America Society of Greater Philadelphia - Membership**
http://jasgp.org/component/page,shop/browse/category_id,1?option,com_virtuemart/Itemid,171/
Read More Previous Blog Entries Obama Manju, Obama Burgers Tokyo No Records [...] \$15.00 Product Details Individual/Family Membership \$50.00 Product Details [...] - Membership Home About Events Tree Planting Project Membership Blog
- Japan America Society of Greater Philadelphia - Student Membership**
Blog Entries Obama Manju, Obama [...] Individual/Family Membership [...] About Events Tree Planting

[>> more results from jasgp.org](#)

Elasticsearch and the Clueweb

New backend: Elasticsearch



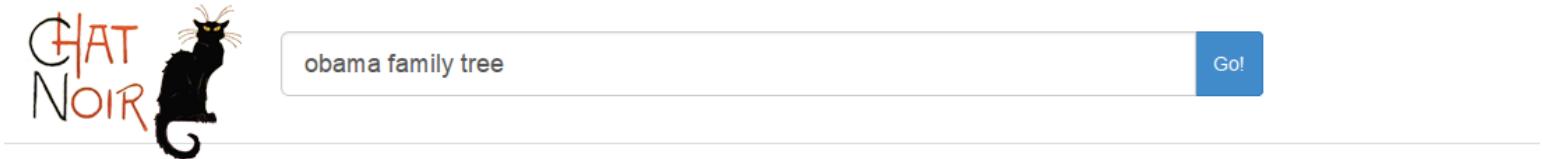
Elasticsearch is a...

- distributed and redundant Lucene index
- (RESTful) search server

Optionally, Elasticsearch comes with Hadoop integration for indexing large amounts of data and performing real-time search on HDFS clusters.

Elasticsearch and the Clueweb

Chatnoir 2



Search results 1-10 for "obama family tree"

Total results: 388016 (retrieved in 42.8ms)

clueweb09-en0001-02-21241

...Ancestry of Barack **Obama** - Family Tree and Genealogy of Senator **Obama** var ziRfw=0;function zlpSS(u){zpu(0,u,280,375,"ssWin")}function zllb(l,t,f){var u=new Array([["1/XJ/W9","1/XJ/WP"],["1/XK/WB","1/XK/WQ"],["18/15m","1/XL/WR"]],[["18/15o","18/1Pp"]],[["1/XJ/WA","1/XJ/WP"],["1/XK/WC","1/XK/WQ"],["18/15m","1/XL/WR"],["18/15o","18/1Pp"]]);var p=l.parentNode.parentNode.parentNode.parentNode.id=="oC"?0:1;var clk;if(arguments.length==3){if(t==1){f=0}if(t==2&&!zlos(l.href)){f=3}clk=u[t][f][p]...
[URL: </cache?trec-id=B2UATCzyRXWB8byLwvQqjA>]

clueweb09-en0001-35-11959

...&ARTS SPORTS BUSINESS OPINION CLASSIFIED BLOGS Login Register Contact Subscribe Obituaries E-Edition Photos Videos Fun & Games Gazette Photo Gallery Buy Gazette photos online Christmas trees Several varieties of Christmas trees are available at Ellim's **Family Tree** Farm in Ballston Spa, which is a traditional spot for many holiday **tree** shoppers. Posted on December 5, 2008. E-mail this gallery to a friend...
[URL: </cache?trec-id=mVNDMEtZT1GkukQbH-boJA>]

clueweb09-en0001-02-21240

.... Martin Luther King, Jr.Historic civil rights leader Martin Luther King, Jr. was actually born with the name Michael King, one of the three children born to Martin Luther King, Sr. and Alberta Williams King. Learn about the ancestors and history of Martin Luther King in this only **family tree**. Barack ObamaLearn about the deep African and American roots of Barack **Obama**, US Senator and presidential candidate. His African roots stretch back for generations in Kenya, while his American roots connect to...
[URL: </cache?trec-id=8bWzuhFkSmOHK0yDzk8qMQ>]

clueweb09-en0001-75-31244

... is my only free night until the weekend and I simply can't wait that long if I don't find a **tree**, the **tree**, tonight.A little girl's happy squeals erupt a few trees over. Curious to see which **tree** has found its **family**, I amble over. A young girl zipped and hooded inside a pink puffy jacket hops up and down holding her mother's hand. Her dad gives the **tree** a final once-over. The little girl hops faster. Her mother tells her gently to calm down. She stands still and pushes the hood off of her...
[URL: </cache?trec-id=0cJ4ZqdwSEem-tYUZA5jKg>]

Elasticsearch and the Clueweb

Future Work

- ❑ index the whole ClueWeb12 and ClueWeb09 datasets on our brandnew Betaweb cluster
- ❑ use more fields (title, URL, anchor texts etc.) for weighted search
- ❑ some more frontend magic

Elasticsearch and the Clueweb

Thank you for your attention!

Passphone Protocol Analysis with Avispa

André Karge

Bauhaus-Universität Weimar

17. Dezember 2014

Agenda

1 Passphone Protocol

2 AVISPA

Passphone Protocol

- Protocol for two factor authentication at a service provider
- Factors:
 - Password as usual
 - Smartphone
- User enters his password
- Gets a QR-Code in return
- Scans the QR-Code with his registered smartphone app
- After success the user is logged in

Passphone Protocol

- Protocol for two factor authentication at a service provider
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 - Password as usual
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- After success the user is logged in

- In protocol: several communications with different parties:
 - Service Provider (e.g. Facebook, Ebay, Amazon, ...)
 - Trusted Third Party Server
 - User at a browser
 - User at his smartphone
- Communication save?

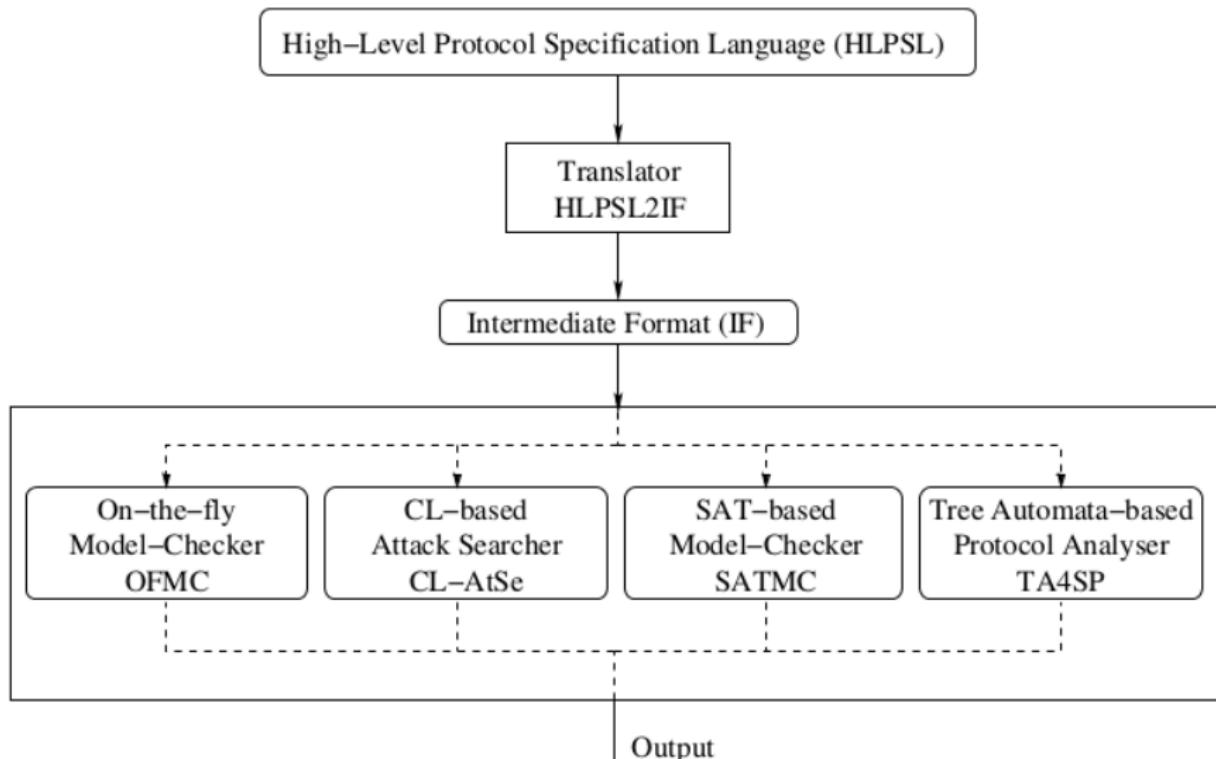
AVISPA

- Approach: automatic proofing of the protocol with AVISPA
- AVISPA = Automated Validation of Internet Security Protocols and Applications
- Protocol has to be translated into special language HPSL
- HPSL = High Level Protocol Specification Language

AVISPA

- Approach: automatic proofing of the protocol with AVISPA
- AVISPA = Automated Validation of Internet Security Protocols and Applications
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- HLPSL = High Level Protocol Specification Language

AVISPA Function



- Possible to choose the proofer
- output after proofing depends on criterias set in the hlspl file
- (e.g. security of a nonce)
- Proofer checks if the given protocol is safe or not
- If a Protocol is not safe the proofer gives an attack trace

betaweb

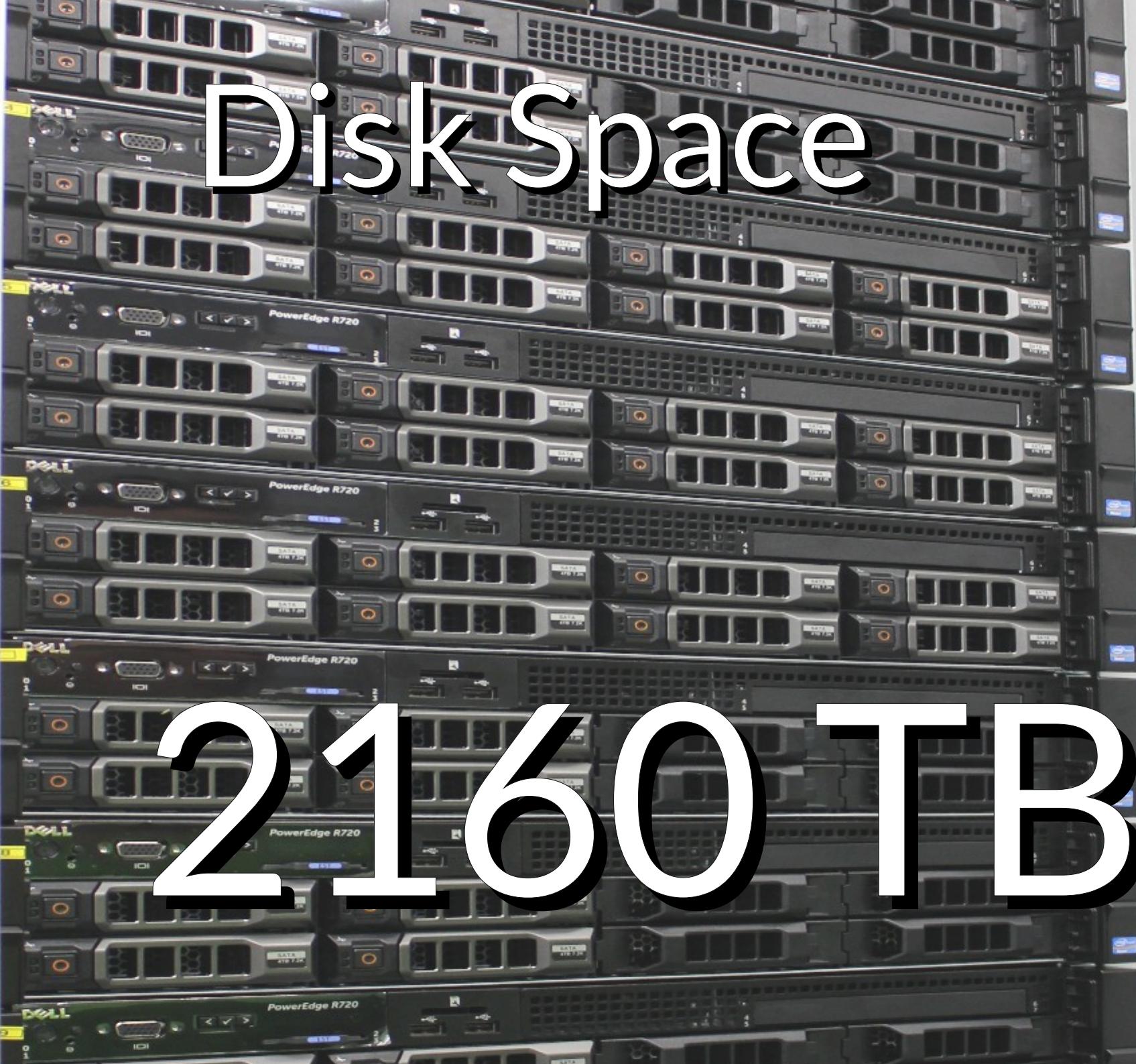
A photograph of a server rack in a data center. The rack is filled with various server components, including drives and a power supply unit labeled '750W'. In the background, a person wearing a red t-shirt with the words 'PIZZA PARTY' is visible, holding a pizza box. The overall image has a slightly blurred, dynamic feel.

janek.bevendorff@uni-weimar.de
alexander.herr@uni-weimar.de
martin.tippmann@uni-weimar.de

135 Server

= 27 x

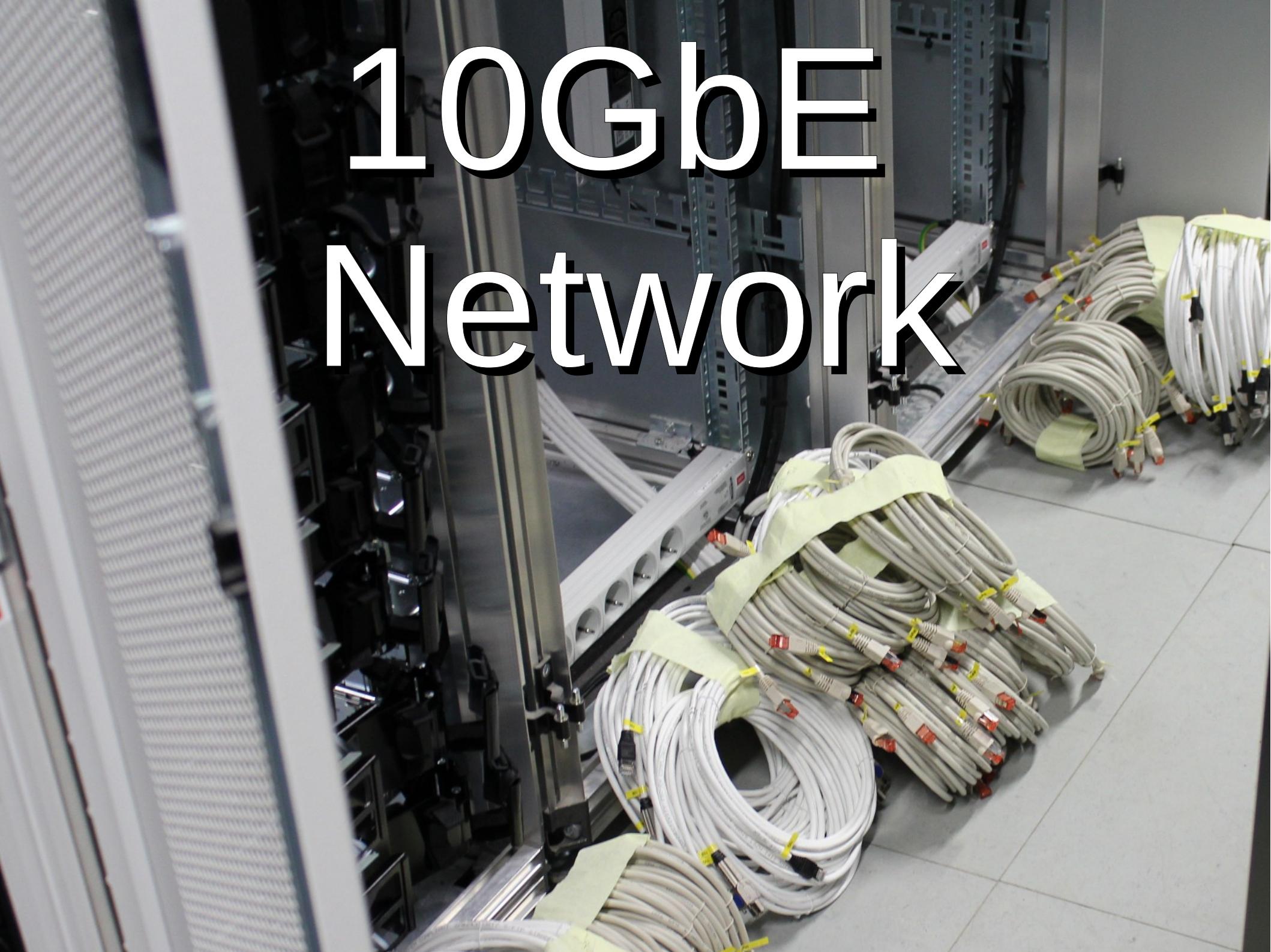


A stack of Dell PowerEdge R720 server units, viewed from the front. The servers are black with multiple drive bays and expansion slots. The text 'Disk Space' is overlaid in large white letters.

Disk Space

2160TB

10GbE Network



webis@betaweb020: ~

1	[	0.0%	7	[	0.0%	13	[	0.0%	19	[	0.0%
2	[|	0.6%	8	[	0.0%	14	[	0.0%	20	[	0.0%
3	[	0.0%	9	[	0.0%	15	[|	3.2%	21	[	0.0%
4	[	0.0%	10	[	0.0%	16	[	0.0%	22	[	0.0%
5	[|	0.6%	11	[	0.0%	17	[	0.0%	23	[	0.0%
6	[	0.0%	12	[	0.0%	18	[	0.0%	24	[|	0.6%
Mem	[|||||	2695/64365MB]	Tasks: 51, 434 thr; 1 running								
Swp	[	0/0MB]	Load average: 0.07 0.06 0.05								
			Uptime: 7 days, 11:00:00								

PID	USER	PRI	NI	VIRT	RES	SHR	S	CPU%	MEM%	TIME+	Command
7850	webis	20	0	26416	2728	1440	R	3.2	0.0	0:01.04	htop
10158	hdfs	20	0	1729M	448M	18124	S	0.6	0.7	7:35.19	/usr/lib/jvm/ja
10304	yarn	20	0	1878M	313M	18116	S	0.6	0.5	2:59.86	/usr/lib/jvm/ja
10489	yarn	20	0	1878M	313M	18116	S	0.6	0.5	2:33.62	/usr/lib/jvm/ja
10261	yarn	20	0	1878M	313M	18116	S	0.6	0.5	2:44.44	/usr/lib/jvm/ja
103643	hdfs	20	0	1724M	398M	18204	S	0.0	0.6	9:58.95	/usr/lib/jvm/ja
10501	yarn	20	0	1878M	313M	18116	S	0.0	0.5	0:13.66	/usr/lib/jvm/ja
103702	hdfs	20	0	1724M	398M	18204	S	0.0	0.5	0:03.03	/usr/lib/jvm/ja
10459	yarn	20	0	1878M	313M	18116	S	0.0	0.5	0:13.45	/usr/lib/jvm/ja
105390	root	20	0	511M	471M	18118	S	0.0	0.1	0:01.95	/usr/bin/python
10477	yarn	20	0	1878M	313M	18116	S	0.0	0.5	0:13.84	/usr/lib/jvm/ja

1620 cores
8.64 TB RAM

Help F2Setup F3Search F4Filter F5Tree F6SortByF7Nice -F8Nice +F9Kill F10Qui

Network Boot

Scanning for devices. Please wait, this may take several minutes...

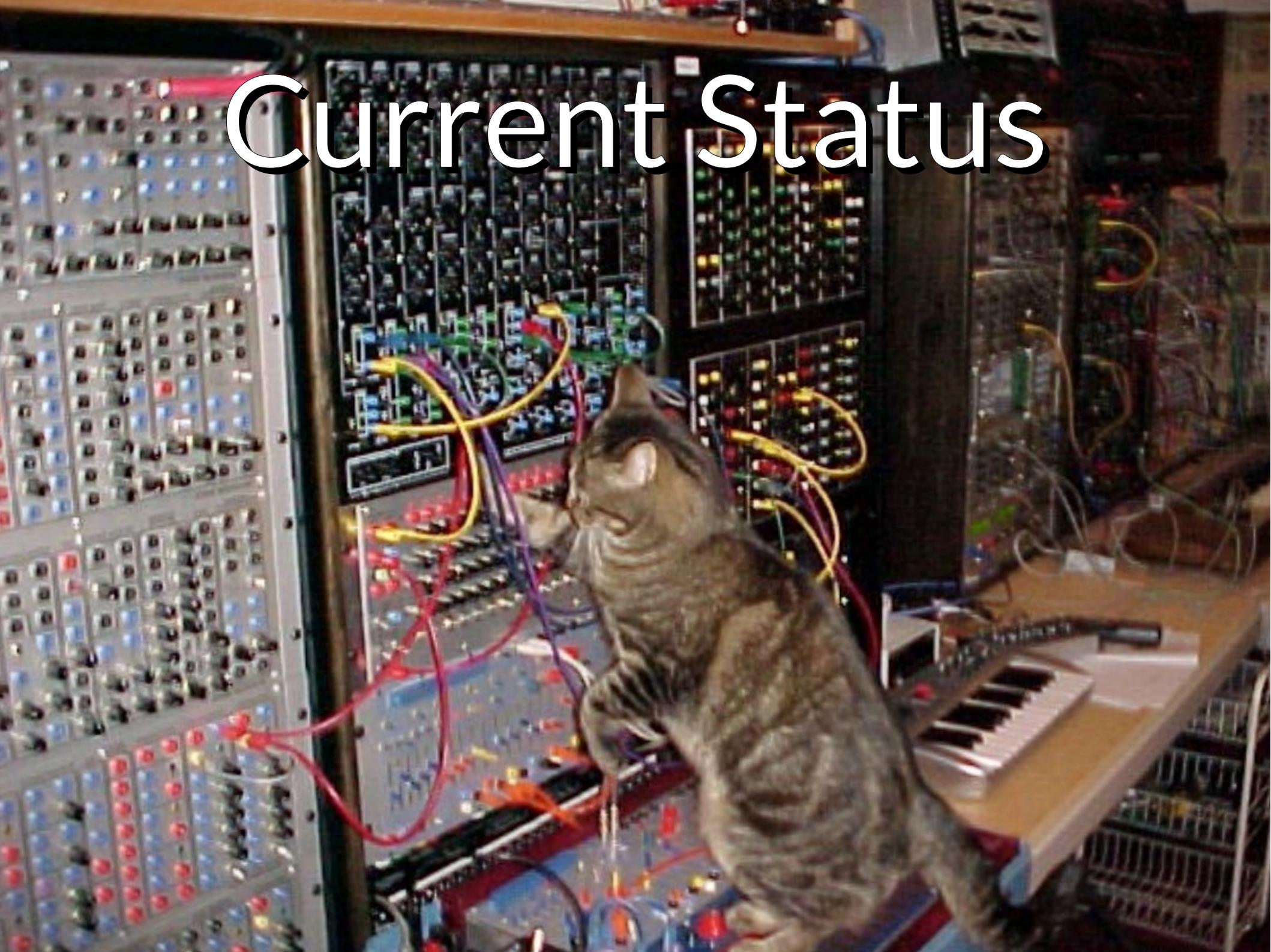
Intel(R) Boot Agent XE v2.3.08
Copyright (C) 1997-2013, Intel Corporation

CLIENT MAC ADDR: EC F4 BB C9 35 B2 GUID: 44454C4C 5400 104D 8030 C4C04F573232
CLIENT IP: 141.54.132.1 MASK: 255.255.255.0 DHCP IP: 141.54.65.1
GATEWAY IP: 141.54.132.254
!PXE entry point found (we hope) at 9837:0106 via plan A
UNDI code segment at 9837 len 4810
UNDI data segment at 90F5 len 7420
Getting cached packet 01 02 03
My IP address seems to be 8D368401 141.54.132.1
ip=141.54.132.1:141.54.132.20:141.54.132.254:255.255.255.0
BOOTIF=01-ec-f4-bb-c9-35-b2
SYSUUID=44454c4c-5400-104d-8030-c4c04f573232
TFTP prefix: /tftpboot/
Trying to load: pxelinux.cfg/default ok
BETAWEB
boot:
Loading vmlinuz.....
Loading initrd.lz.....ready.

Setup via Configuration Management

```
Name: hadoop-home-link - Function: alternatives.install - Result: Clean
Name: /etc/profile.d/hadoop.sh - Function: file.managed - Result: Clean
Name: /etc/hadoop - Function: file.directory - Result: Clean
Name: /etc/hadoop/conf-2.5.2 - Function: file.directory - Result: Clean
Name: mv /usr/lib/hadoop-2.5.2/etc/hadoop /etc/hadoop/conf.dist - Function: cmd.run Result: Clean
Name: /usr/lib/hadoop-2.5.2/etc/hadoop - Function: file.link - Result: Clean
Name: hadoop-conf-link - Function: alternatives.install - Result: Clean
Name: /etc/hadoop/conf-2.5.2/log4j.properties - Function: file.compare - Result: Clean
Name: /etc/hadoop/conf-2.5.2/hadoop-env.sh - Function: file.managed - Result: Clean
Name: /etc/default/hadoop - Function: file.managed - Result: Clean
Name: hdfs - Function: group.present - Result: Clean
Name: hdfs - Function: user.present - Result: Clean
Name: /home/hdfs/.ssh - Function: file.directory - Result: Clean
Name: /home/hdfs/.ssh/id_dsa - Function: file.managed - Result: Clean
Name: /home/hdfs/.ssh/id_dsa.pub - Function: file.managed - Result: Clean
Name: ssh_dss_hdfs - Function: ssh_auth.present - Result: Clean
Name: /home/hdfs/.ssh/config - Function: file.managed - Result: Clean
Name: /home/hdfs/.bashrc - Function: file.append - Result: Clean
Name: /etc/security/limits.d/99-hdfs.conf - Function: file.managed - Result: Clean
Name: /data/hdfs - Function: file.directory - Result: Clean
Name: /data/hdfs/dn - Function: file.directory - Result: Clean
Name: /etc/hadoop/conf/core-site.xml - Function: file.managed - Result: Clean
Name: /etc/hadoop/conf/hdfs-site.xml - Function: file.managed - Result: Clean
Name: /etc/hadoop/conf/masters - Function: file.managed - Result: Clean
Name: /etc/hadoop/conf/slaves - Function: file.managed - Result: Clean
Name: /etc/hadoop/conf/dfs.hosts - Function: file.managed - Result: Clean
Name: /etc/hadoop/conf/dfs.hosts.exclude - Function: file.managed - Result: Clean
Name: /etc/init.d/hadoop-datanode - Function: file.managed - Result: Clean
Name: mapred - Function: group.present - Result: Clean
Name: hadoop-datanode - Function: service.running - Result: Clean
Name: mapred - Function: user.present - Result: Clean
Name: /home/mapred/.ssh - Function: file.directory - Result: Clean
Name: /home/mapred/.ssh/id_dsa - Function: file.managed - Result: Clean
Name: /home/mapred/.ssh/id_dsa.pub - Function: file.managed - Result: Clean
Name: ssh_dss_mapred - Function: ssh_auth.present - Result: Clean
Name: /home/mapred/.ssh/config - Function: file.managed - Result: Clean
Name: /home/mapred/.bashrc - Function: file.append - Result: Clean
Name: /etc/security/limits.d/99-mapred.conf - Function: file.managed - Result: Clean
Name: /data/mapred - Function: file.directory - Result: Clean
Name: /etc/hadoop/conf/mapred-site.xml - Function: file.managed - Result: Clean
Name: /etc/hadoop/conf/taskcontroller.cfg - Function: file.managed - Result: Clean
Name: yarn - Function: group.present - Result: Clean
Name: yarn - Function: user.present - Result: Clean
```

Current Status



SimHash as a Service

Scaling Near-Duplicate Detection

Jan Graßegger

Near-Duplicates

» ZGT Abo bestellen Leserservice E-Paper Anzeigen Online werben Marktplatz Finden Sie Reisen Tickets Kontakt

ANMELDEN DIENSTAG, 23. SEPTEMBER 2014 Suche in allen Nachrichten

ERFURT 16°C

Thüringer Allgemeine



Startseite Lokales Wahlen Politik Wirtschaft Sport Kultur Vermischtes Veranstaltungen Video

Freiwilligentag in Weimar: Ein Tag mit 680 Stunden

23.09.2014 - 11:00 Uhr

Wenn 170 Leute vier Stunden lang ranklotzen, schaffen sie viel mehr als ein Arbeiter in 680 Stunden. Gemeinsamkeit macht stärker, deshalb sind die Einsätze an den Weimarer Freiwilligentagen nicht mit Geld aufzuwiegen.

+  Gefällt mir 0



Bäumchen, rüttel dich: Auf der Streuobstwiese bei Gaberndorf hängt kein Apfel mehr am Baum, nachdem die Grüne Liga mit zehn Helfern alles erntete, was sich zu Saft verarbeiten lässt. Foto: Sabine Brandt

Weimar. "Wir haben alles geschafft, was wir uns vorgenommen hatten", zieht Stefanie Lachmann von der Ehrenamtsagentur zufrieden Bilanz unter Weimars größten Subbotnik, der am zurückliegenden Samstag ausgerufen worden war. Seither sind der Lebenshilfelaufen um einen Bilderständer und die Grüne Liga um rund zwei Tonnen Obst aus Gaberndorf für die Saftpresse reicher und das Schlachthofviertel um einige Kilo Müll

ZUM THEMA

Rekord an guten Taten beim Freiwilligentag in Jena



Rekordbeteiligung beim 10. Jenaer Freiwilligentag: Mehr als 320 Freiwillige kümmerten sich an 34 Ein... [mehr](#)

Freiwilligentag in Weimar: Ein Tag mit 680 Stunden

Erfurter Freiwilligentag für das Gemeinwohl

Kindertag mit Spaß und Wünschen in Gera

Erster Freiwilligentag in Eisenach

Bilder des Tages im Monat September

Erster Thüringer Freiwilligentag im Landkreis Nordhausen

Thüringer Freiwilligentag im Landkreis Nordhausen

Im Nachbarschaftszentrum in Eisenach wird beraten und auch gemeinsam gekocht

Helfer für Freiwilligentag am 20. September in Gera gesucht

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ANMELDEN DIENSTAG, 23. SEPTEMBER 2014 Suche in allen Nachrichten

ERFURT 16°C

Thüringische Landeszeitung

TLZ.DE

Startseite Lokales Wahlen Politik Wirtschaft Sport Kultur Vermischtes Veranstaltungen Video

Zum Thema: Thüringenwahl 2014 | TLZ öffnet Türen | Drittligist FC Rot-Weiß Erfurt | Kulturrena Jena | alle Themen ...

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MEISTGELESEN

- 1 Wenn Paare sehr unterschiedlich aussehen
- 2 Blutspuren an der Windschutzscheibe: Polizei-Großeinsatz nach Unfallflucht in Heiligenstadt
- 3 Spurensuche in Jena: Wie ein Sportstudent zum Islamisten wurde
- 4 Entsetzen bei Mitschülern der in Jena getöteten Leila
- 5 Lieberknecht entschuldigt sich bei SPD für Wahlkampf-Polemik

MEISTKOMMENTIERT

- 1 AfD will Lieberknecht nicht unterstützen: Unterstützung für Ramelow möglich
- 2 Skepsis in Erfurt: Ein Kilometer

SimHash [Cha02]

- Locality-Sensitive Hash
- embeds document text into a 64-bit hash
- correlates with Cos-Similarity

SimHash as a Service

Searching for near-duplicates over a web service

- corpus: ClueWeb12 (over 700M docs)
- response time: < 1 second
- search tables allow fast candidate retrieval [MJS07]
- works with aitools-invertedindex3

Bibliography

- [Cha02] Moses Charikar. Similarity estimation techniques from rounding algorithms. In Proceedings on 34th Annual ACM Symposium on Theory of Computing, May 19-21, 2002, Montréal, Quebec, Canada, Seiten 380–388, 2002.
- [MJS07] Gurmeet Singh Manku, Arvind Jain und Anish Das Sarma. Detecting near-duplicates for web crawling. In Proceedings of the 16th International Conference on World Wide Web, WWW'07, Banff, Alberta, Canada, May 8-12, 2007, Seiten 141–150, 2007.

One class classification of vandalism in the wikipedia

Speaker:

Jonas Köhler

The classification problem:

Classify edits of wikipedia entries into **regular** edits and **vandalism** edits.

- Currently he is the Chairman of the [[World of Labor Institute]].
- + Currently he is the Chairman of the [[World of Labor Institute]], and wants to breed an army of termites to claim world domination..

The corpora:

PAN WVC 2010 and PAN WVC 2011¹ (humanly annotated edits: *vandalism* and *regular*)

PAN WVC 2010

2394	vandalism entries	⇒	imbalanced classes...
30045	regular entries		

Features:

54		
few meta-data, few linguistic data	⇒	dimensionality will grow!

¹ Martin Potthast. [Crowdsourcing a Wikipedia Vandalism Corpus](#). In Fabio Crestani et al, editors, *33rd International ACM Conference on Research and Development in Information Retrieval (SIGIR 10)*, pages 789-790, July 2010. ACM. ISBN 978-1-4503-0153-4

One class classification

Train a model with data of the **positive class only**.

The model shall detect if a data vector is **positive or an outlier** from this class.

Useful if: the negative class is hard to describe with feature model

the negative class is difficult to sample

the class cardinality is very imbalanced

⇒ There are two ways Wikipedia vandalism detection can be seen as a OCC:

- 1) vandalism can be modelled with features **positive = vandalism**
regular entries probably can't
- 2) a lot more regular entries exist **positive = regular**
annotation of vandalism entries is expensive

Outlook

What we have tried:

applying two standard implementations (libsvm)

applying a method intended for high dimension OCC (based on Random Forest ¹)

Results

standard implementations do not work on PAN-WVC-2010 and PAN-WVC-2011

there is a lot of research on OCC, but only few implementations of methods are available

implementing the methods by our own is not feasible

How we want to proceed now:

continue with the work on the features (meta-data, NLP, ...)

analyze the „hard cases“ (there are ~280 entries which are always bad in recall)

¹ Chesner Désir, Simon Bernard, Caroline Petitjean, Heutte Laurent. One class random forests. Pattern Recognition, Elsevier, 2013, 46, pp.3490-3506.

Thank you!

Questions?