

**A QUALITATIVE MULTI-ATTRIBUTE MODEL FOR SELECTION OF  
PRIVATE HYDROPOWER PLANT INVESTMENTS IN TURKEY: BY  
FOUNDATION OF SEARCH RESULTS CLUSTERING ENGINE (Carrot<sup>2</sup>),  
HYDROPOWER PLANT CLUSTERING, DEXi AND DEXiTree**



Source: The International Energy Agency Implementing Agreement for Hydropower Technologies and Programmes  
(<http://www.ieahydro.org/>)

# Journal of Industrial Engineering and Management

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**WIKIPEDIA**  
*The Free Encyclopedia*

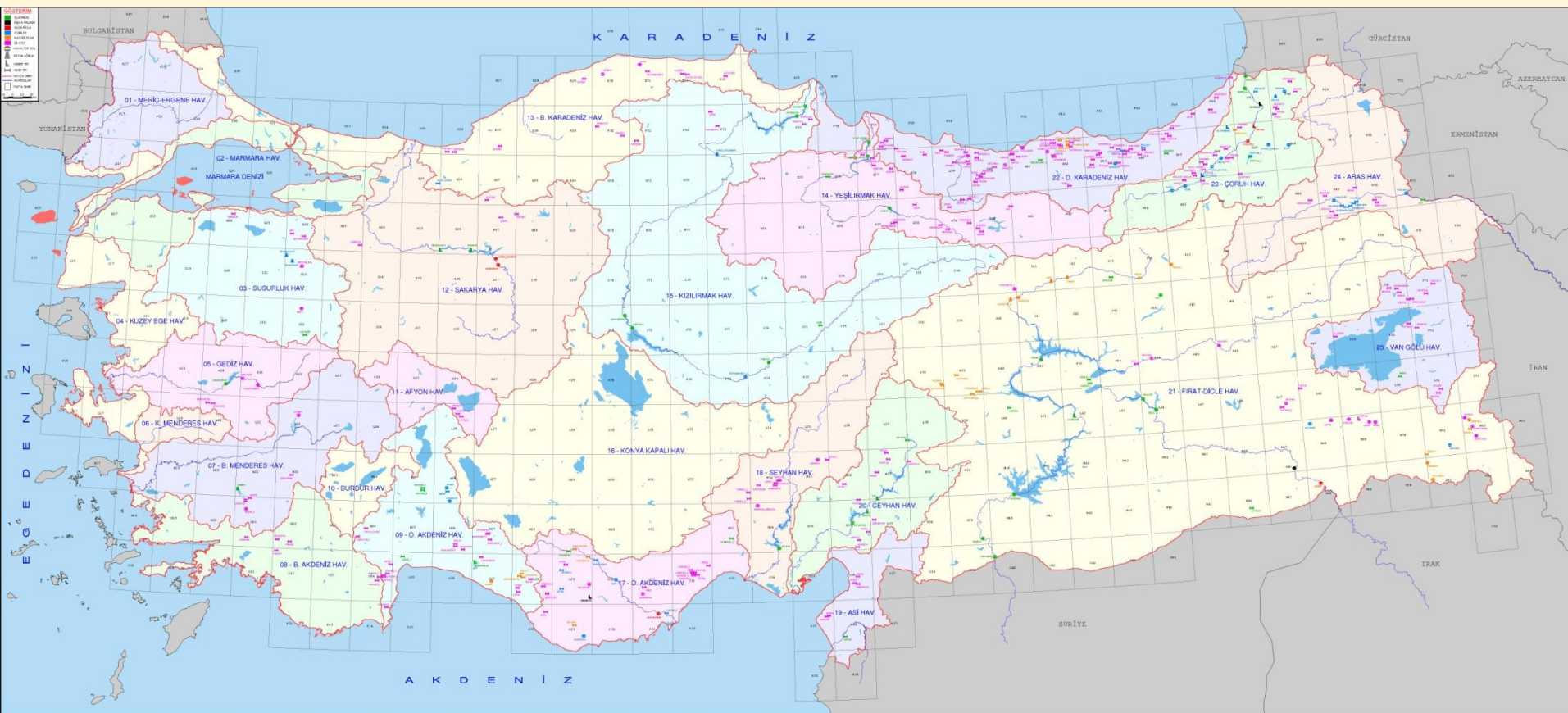
<http://en.wikipedia.org/wiki/Turkey>





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The scope or the investigation region of the current study can be understood from the map below. This map was presented by The General Directorate of Renewable Energy. The river basins were shown one by one on the map by The General Directorate of Renewable Energy.



The Turkey Electricity Production Map was presented by The Electricity Generation Company. This map is presented for showing the scope or the investigation region of the current study based on the provinces.

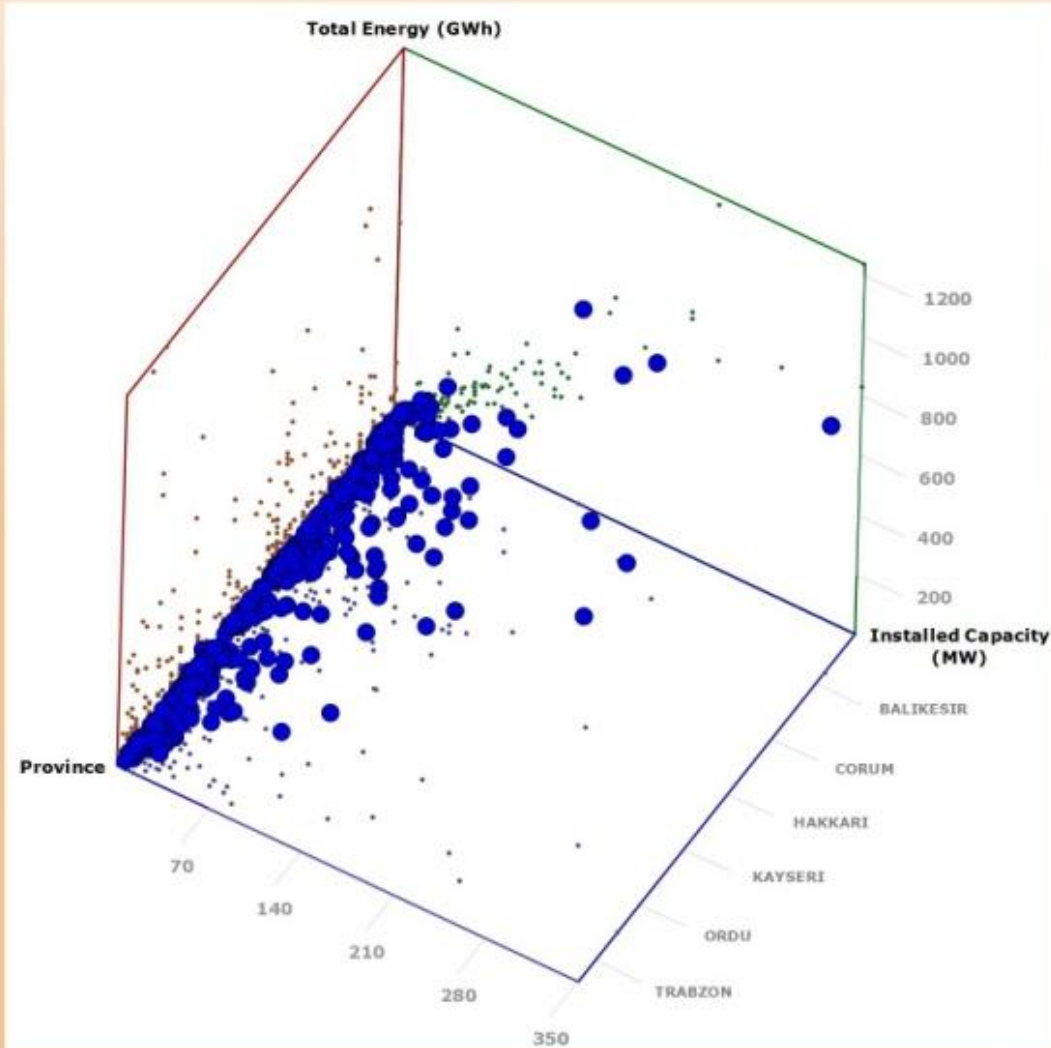




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totally  
617  
private  
hydropower  
plant  
investment  
options  
on  
the data set



Private hydropower plant investment options data set

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- total energy generation      ■ community attitude      ■ security conditions
- river basin      ■ transportation      ■ protected areas      ■ business climate
- climate change      ■ terrorism conditions      ■ substation conditions
- ambient temperature change predictions      ■ precipitation change predictions
- electricity demand      ■ transmission system network      ■ labor      ■ cost
- distribution lines network      ■ availability of workforce      ■ credit availability
- availability of skilled labor      ■ natural disasters/hazards      ■ free travel
- earthquakes and zones      ■ geopolitical uncertainty      ■ war conditions
- social chaos      ■ air transportation      ■ railway transportation
- road transportation      ■ inland waterway transportation
- ocean-sea transportation      ■ technological infrastructure
- scientific infrastructure

The unstructured selected attributes, which were described by the key terms and phrases.



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The screenshot shows the Carrot2 website interface. At the top, there's a navigation bar with links: Home, Download, Documentation, FAQ, Support, Source Code, License, Algorithms, Publications, Powered by C2, Authors, Spin-off, and Labs. The main content area features a search bar with the text 'salsa' and a 'Search' button. Below the search bar, there's a 'Tree' visualization showing a hierarchical structure of search results. The tree includes categories like 'All Topics (100)', 'Dance Salsa (18)', 'Salsa Classes (10)', 'Salsa Recipes (7)', 'Salsa Music (6)', 'Mambo (5)', and 'Salsa Tanzschule (4)'. To the right of the tree, there's a list of search results, including 'Salsa Cycles 2008' and 'Salsa Recipes - Dips and Spreads - All'. The website also has a 'Download' section with links to 'Carrot<sup>2</sup> API JavaDoc' and 'Carrot<sup>2</sup> C# API reference'. There's a 'News' section mentioning 'Release 3.9.0 is available.' and a 'Sponsors and donors' section. At the bottom, there's a 'Spin-off company' section with the 'CARROT search' logo.

Carrot<sup>2</sup> is an Open Source **Search Results Clustering Engine**. It can automatically organize small collections of documents (search results but not only) into thematic categories.

Download  
Carrot<sup>2</sup> API JavaDoc  
Carrot<sup>2</sup> C# API reference

News  
Release [3.9.0](#) is available.

Sponsors and donors  
Carrot<sup>2</sup> is kindly supported by a number of [companies](#) and [organizations](#)

Spin-off company  
**CARROT** search

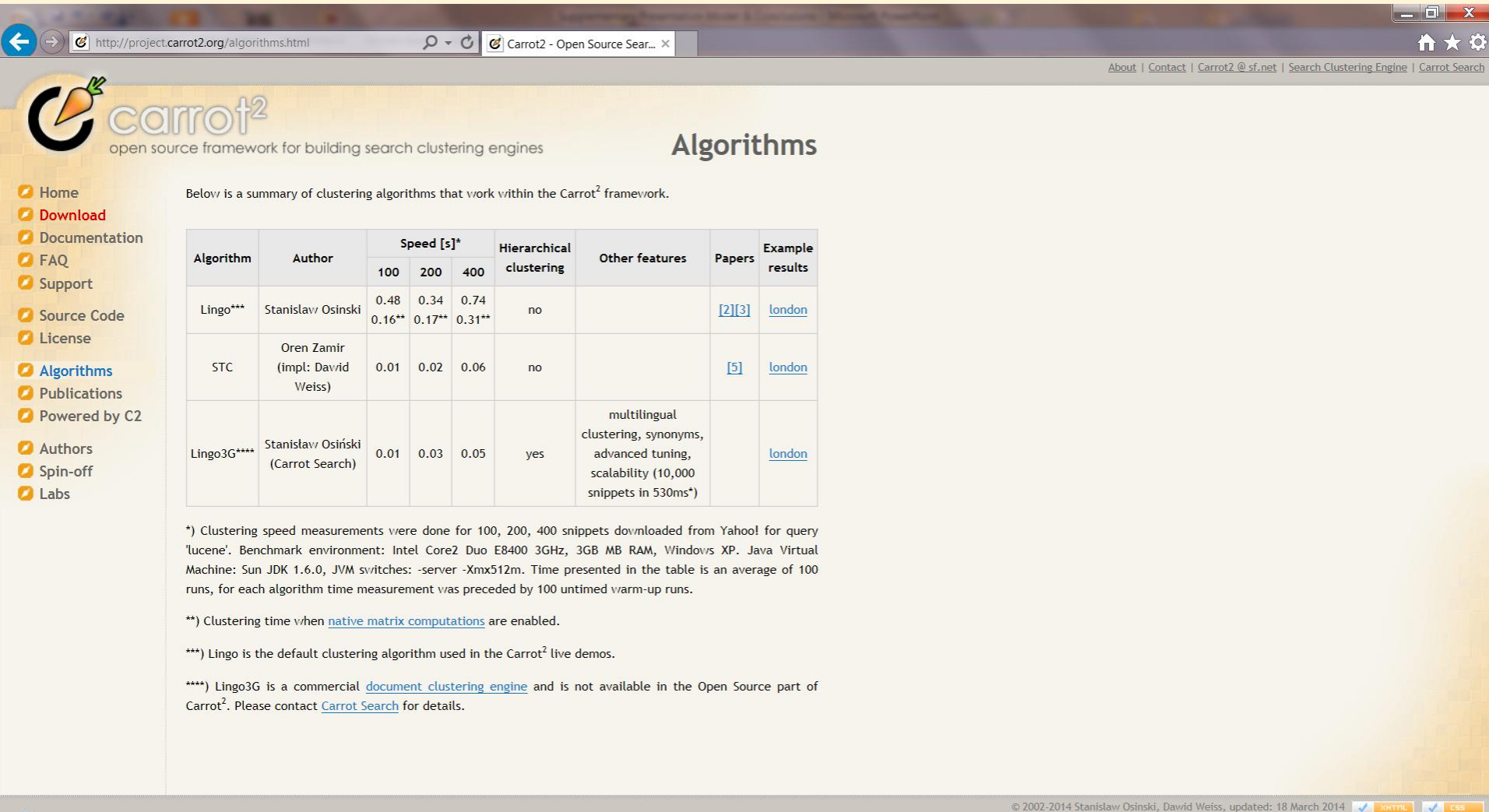
Search results clustered with Carrot<sup>2</sup> ([live demo](#))

Apart from two specialized [document clustering algorithms](#), Carrot<sup>2</sup> offers ready-to-use components for fetching search results from various sources including GoogleAPI, Bing API, [eTools Meta Search](#), Lucene, SOLR, and more.

Carrot<sup>2</sup> is implemented in Java, but a native C# / .NET API is also available. Other non-Java platforms, such as PHP or Ruby, can call Carrot<sup>2</sup> clustering through its REST interface. The [downloads page](#) will help you to choose the right package. For consulting services, installation, maintenance and text mining expertise, contact [Carrot Search](#) -- the Carrot<sup>2</sup> spin-off company.

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Below is a summary of clustering algorithms that work within the Carrot<sup>2</sup> framework.

Algorithm	Author	Speed [s]*			Hierarchical clustering	Other features	Papers	Example results
		100	200	400				
Lingo***	Stanislav Osinski	0.48 0.16**	0.34 0.17**	0.74 0.31**	no		<a href="#">[2][3]</a>	<a href="#">london</a>
STC	Oren Zamir (impl: Dawid Weiss)	0.01	0.02	0.06	no		<a href="#">[5]</a>	<a href="#">london</a>
Lingo3G****	Stanislav Osinski (Carrot Search)	0.01	0.03	0.05	yes	multilingual clustering, synonyms, advanced tuning, scalability (10,000 snippets in 530ms*)		<a href="#">london</a>

\*) Clustering speed measurements were done for 100, 200, 400 snippets downloaded from Yahoo! for query 'lucene'. Benchmark environment: Intel Core2 Duo E8400 3GHz, 3GB MB RAM, Windows XP. Java Virtual Machine: Sun JDK 1.6.0, JVM switches: -server -Xmx512m. Time presented in the table is an average of 100 runs, for each algorithm time measurement was preceded by 100 untimed warm-up runs.

\*\*\*) Clustering time when [native matrix computations](#) are enabled.

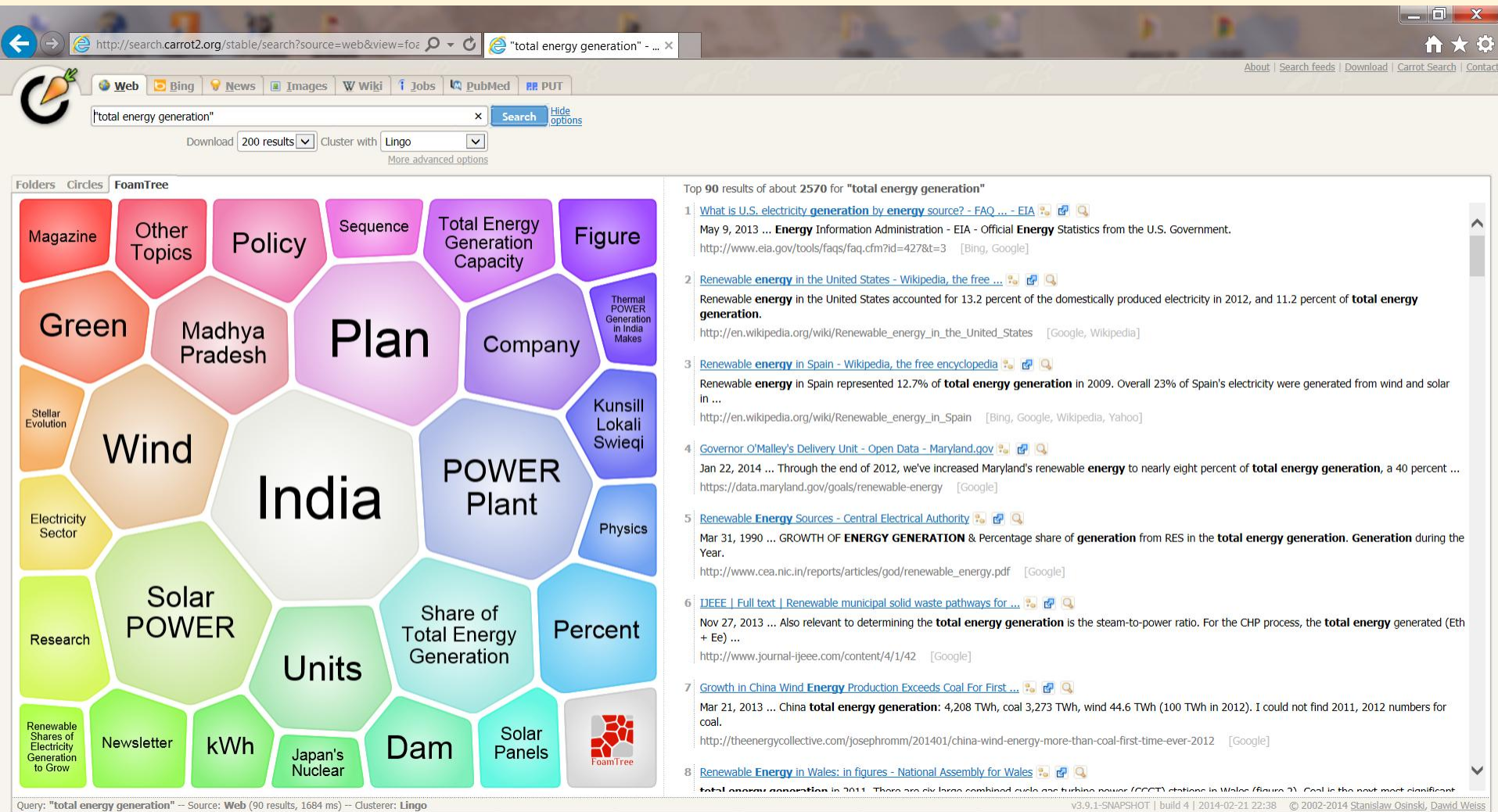
\*\*\*\*) Lingo is the default clustering algorithm used in the Carrot<sup>2</sup> live demos.

\*\*\*\*\*) Lingo3G is a commercial [document clustering engine](#) and is not available in the Open Source part of Carrot<sup>2</sup>. Please contact [Carrot Search](#) for details.



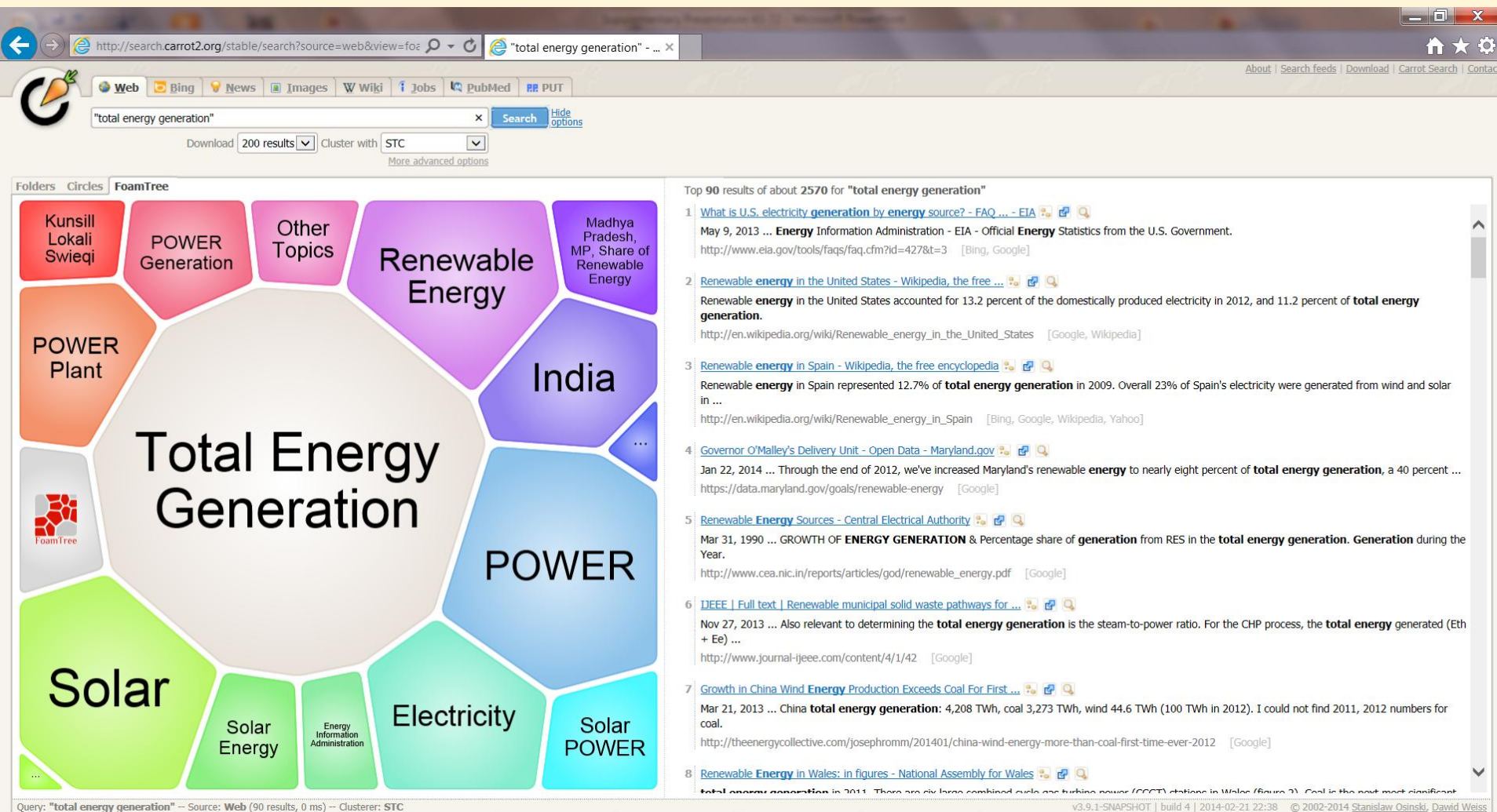
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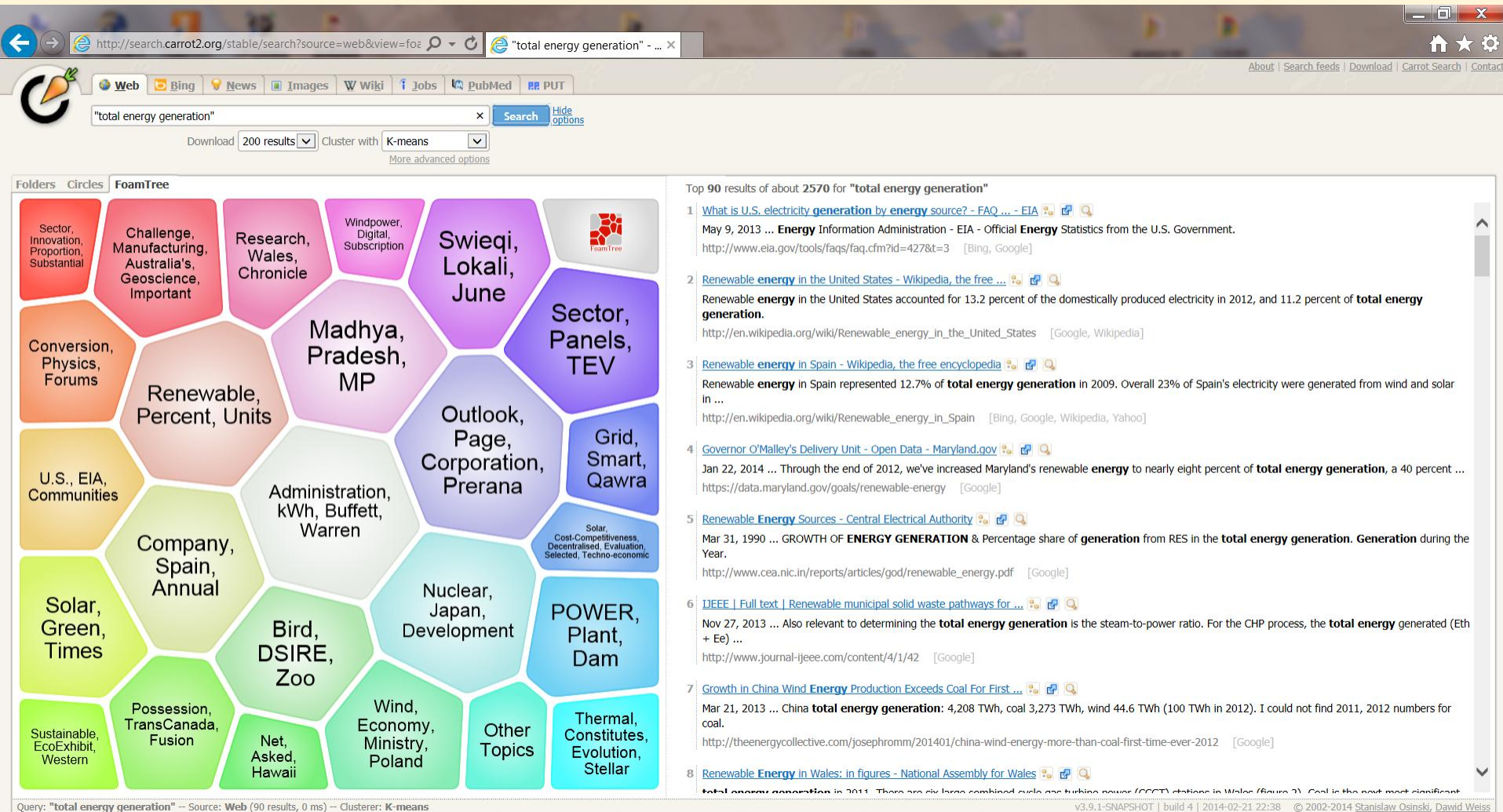


The Carrot<sup>2</sup> STC clustering results for the total energy generation key term Source: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)



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The Carrot<sup>2</sup> K-means clustering results for the total energy generation key term *Source*: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)

[http://search.carrot2.org/stable/search?source=web&view=foa](#)
["community attitude" - Carr...](#)

[Web](#)
[Bing](#)
[News](#)
[Images](#)
[Wiki](#)
[Jobs](#)
[PubMed](#)
[RPUT](#)

Download 200 results Cluster with Lingo

**Folders** **Circles** **FoamTree**

**Top 122 results of about 8170 for "community attitude"**

- Thousand Oaks - Community Attitude Survey**

The City of Thousand Oaks has conducted a **Community Attitude** Survey about every five years since 1968 to sample citizen views on a wide range of planning ...

<http://www.toaks.org/government/depts/community/planning/attitudesurvey.asp> [Google, Yahoo]
- Community Opinion Survey - Official Site of the City of Phoenix**

Previous Surveys: 2010 City of Phoenix **Community Attitude** Survey · 2008 City of Phoenix **Community Attitude** Survey · 2006 City of Phoenix **Community Attitude** ...

<http://phoenix.gov/communitysurvey> [Google]
- Community Attitude Survey Approach**

**Community Attitude** Survey Approach. Learn more from University of Nebraska- Lincoln Extension in Lancaster County.

<http://lanaster.unl.edu/community/articles/surveyattitude.shtml> [Bing, Blekko, Google, Yahoo]
- Beachwood School administrators reviewing community attitude ...**

Feb 25, 2014 ... Beachwood Superintendent Richard A. Markwardt gave an update on the upcoming **community attitude** survey at the Feb. 24 School Board ...

<http://www.news-herald.com/general-news/20140225/beachwood-school-administrators-reviewing-community-attitude-survey> [Blekko, Google]
- Community Attitude Survey - Convince.LLC**

High-profile cases don't have to meet the ranks of O.J. and Casey Anthony to merit a broad survey of the population. Whether mounting a Change of Venue ...

<http://www.convincellc.com/community-attitude-survey.html> [Google]
- VicHealth - Community Attitude Survey on Alcohol**

**Community Attitude** Survey on Alcohol. About the study. This is an important study about the **attitudes** of Victorians to alcohol and related issues. The results from ...

<http://www.vichealth.vic.gov.au/Programs-and-Projects/Alcohol-Misuse/Community-Attitude-Survey-on-Alcohol.aspx> [Google]
- Assessing community attitude towards home-based care for people ...**

Assessing **community attitude** towards home-based care for people with AIDS ( PWAs) in Kenya. Olenja JM. This paper presents data on an assessment of ...

<http://www.ncbi.nlm.nih.gov/pubmed/10399651> [Google]
- Community Attitude Survey Report Now Available - City of McMinnville**

The City has received the results of a **community attitude** survey. Earlier this year 3,000 citizens were sent a questionnaire about city services and issues.

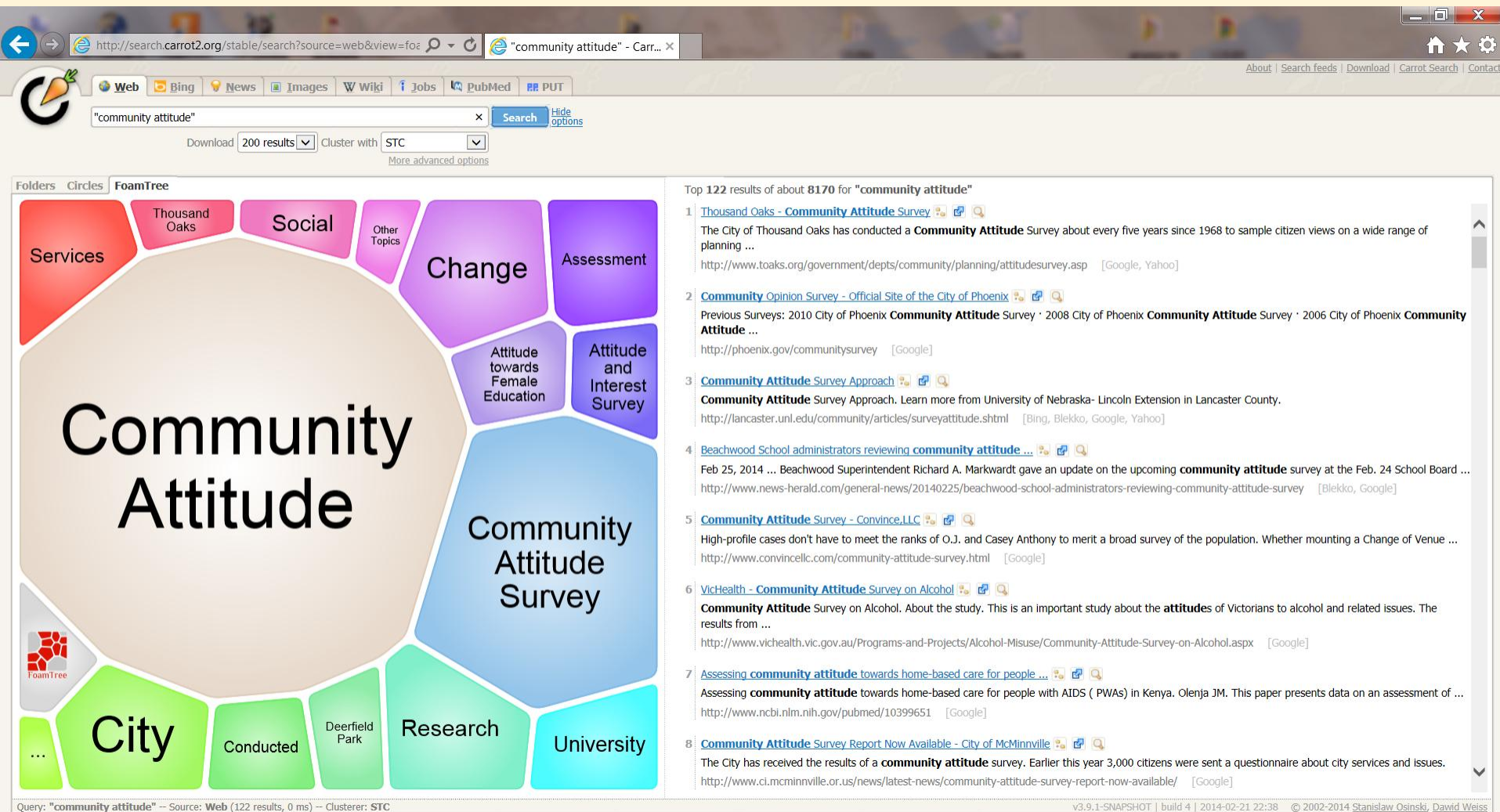
<http://www.ci.mcminnville.or.us/news/latest-news/community-attitude-survey-report-now-available/> [Google]

Query: "community attitude" -- Source: Web (122 results, 2049 ms) -- Clusterer: Lingo



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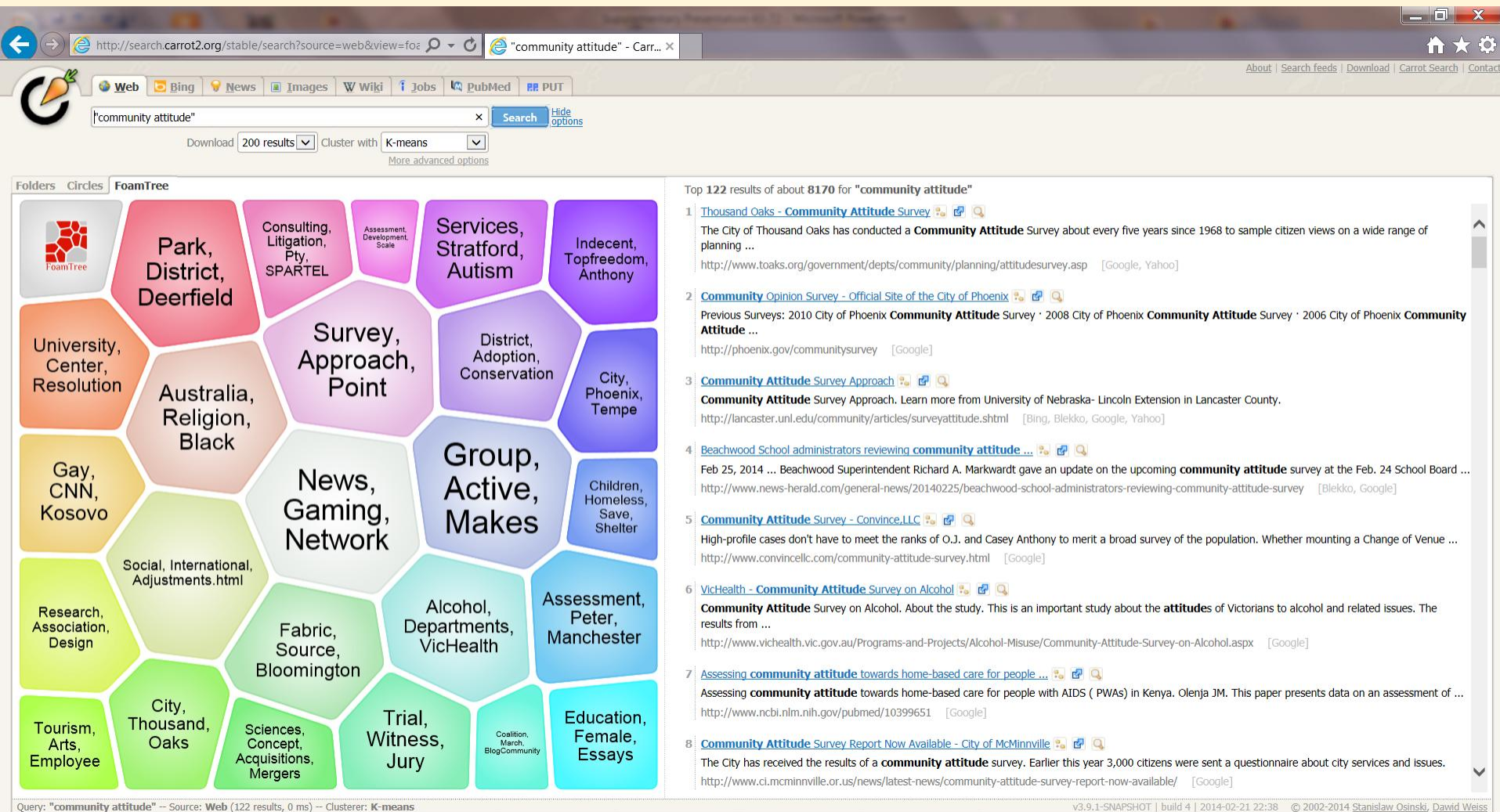
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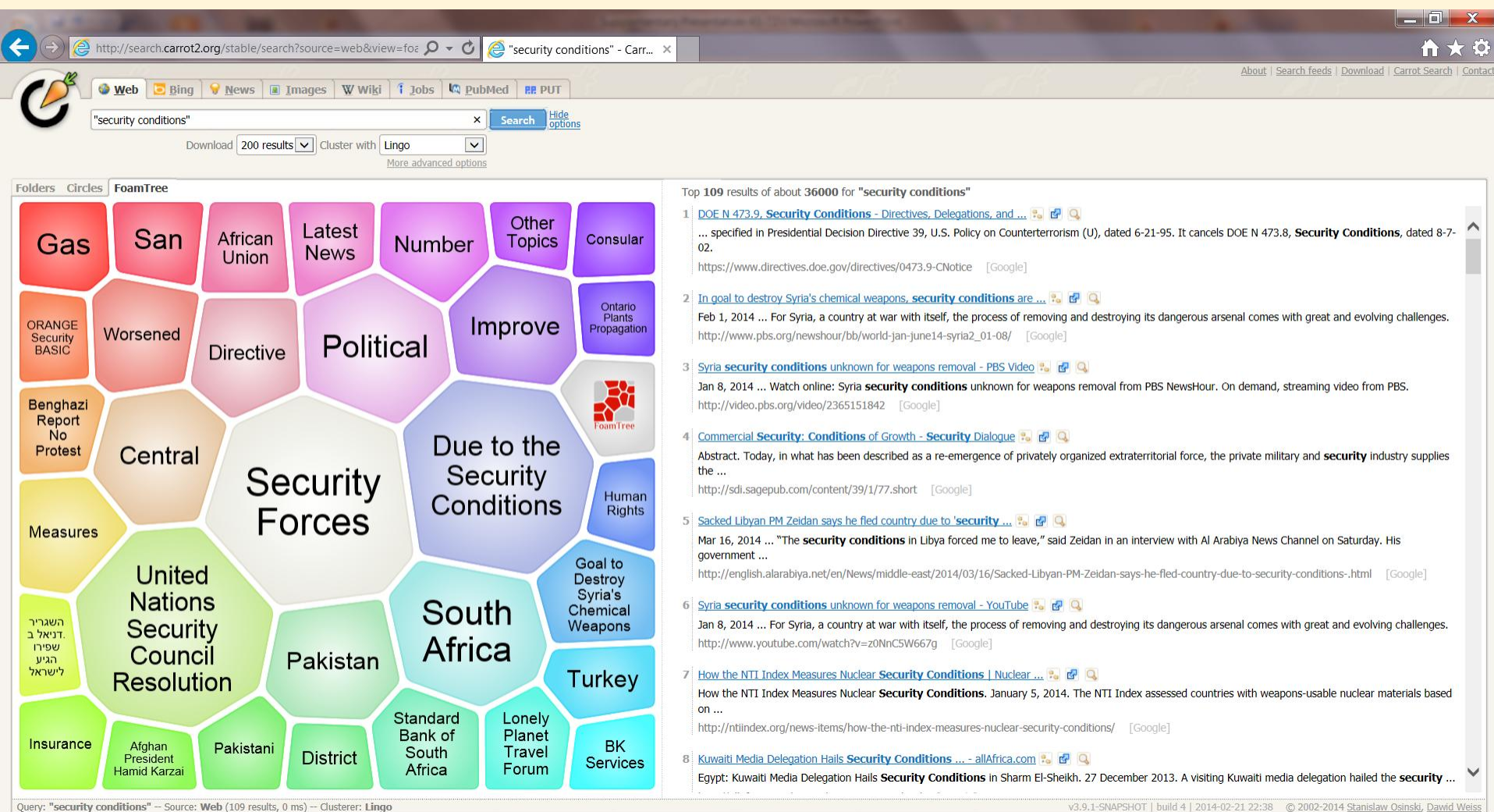
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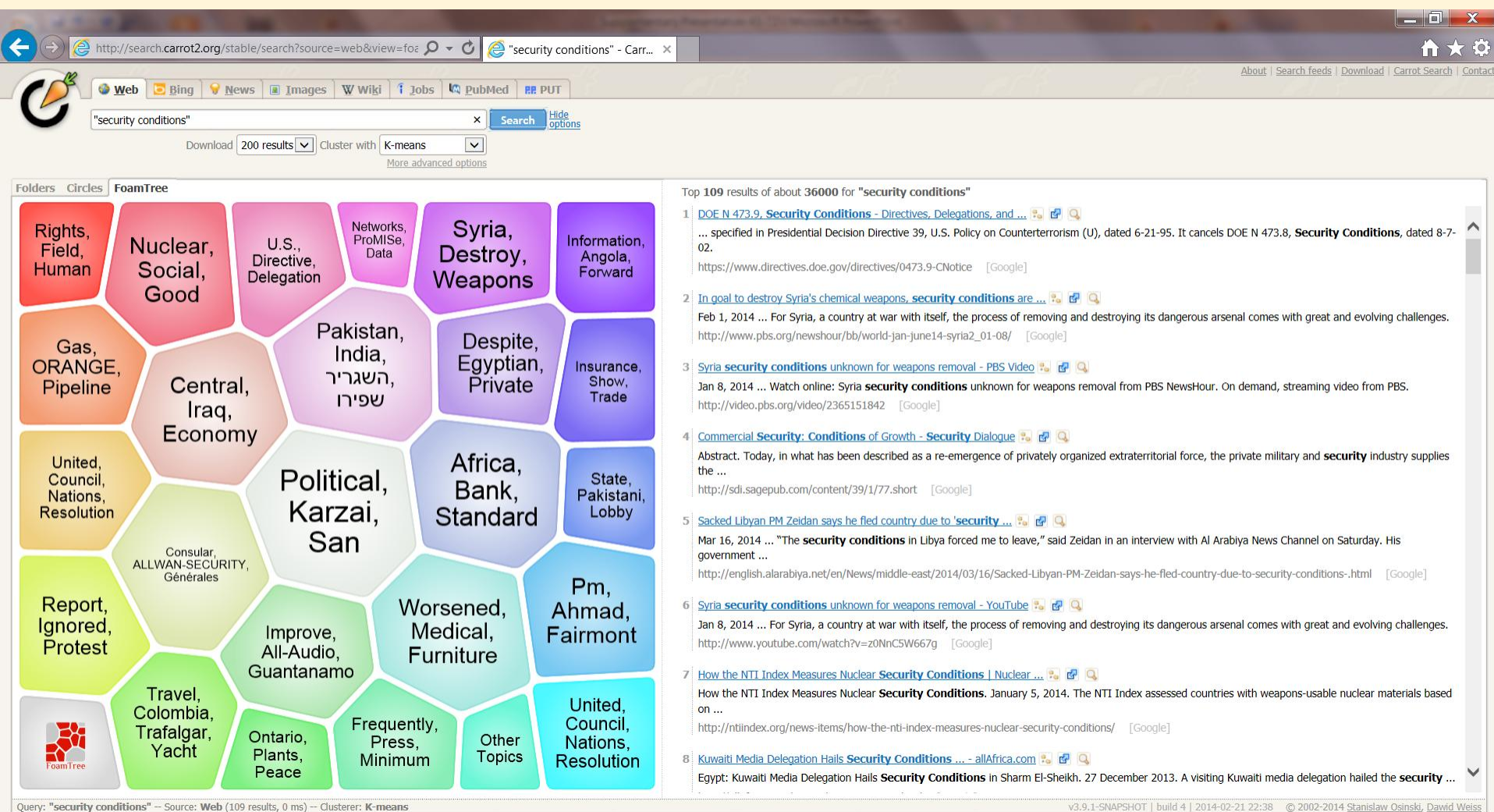
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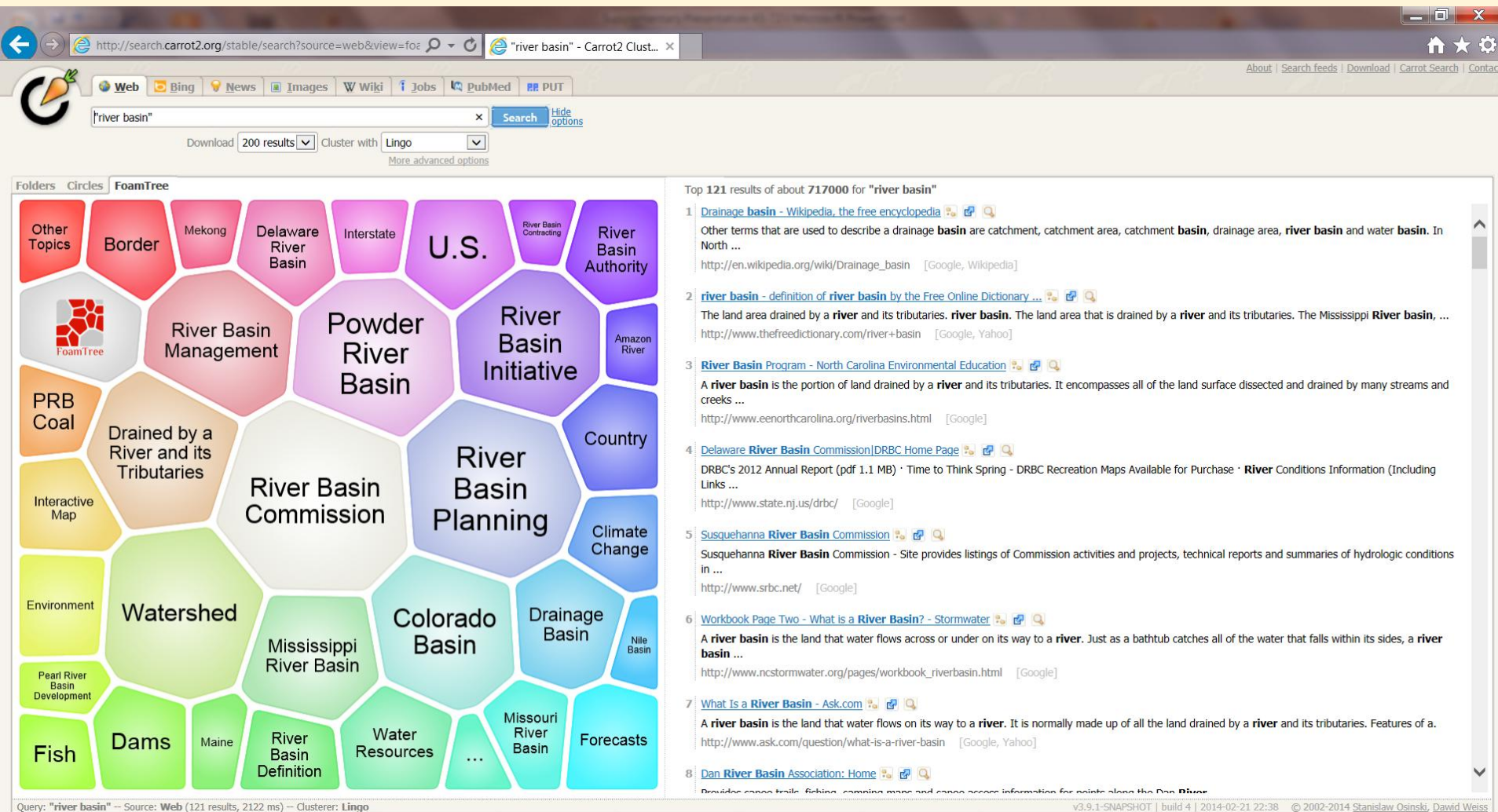
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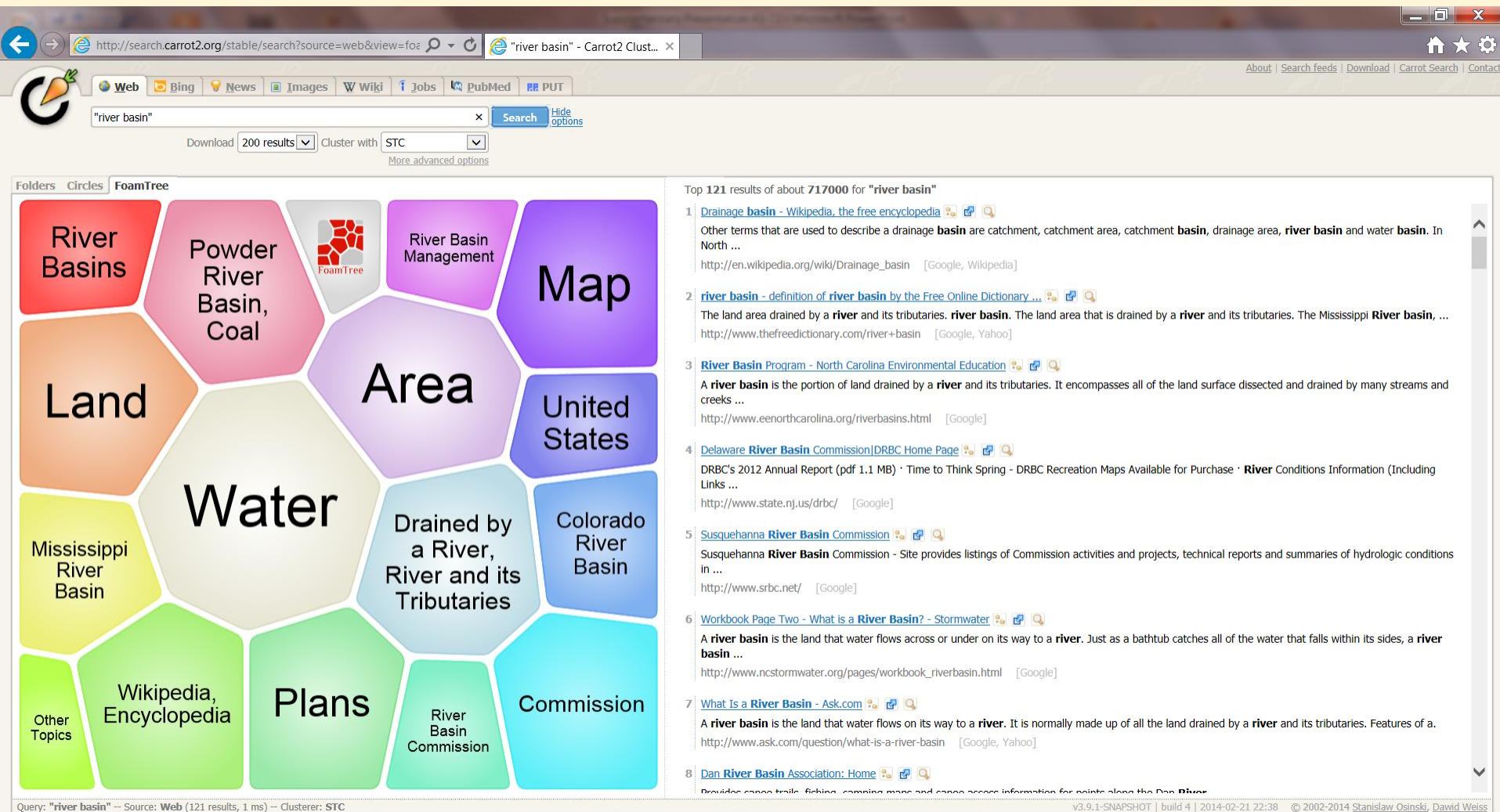


The Carrot<sup>2</sup> Lingo clustering results for the river basin key term *Source*: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)



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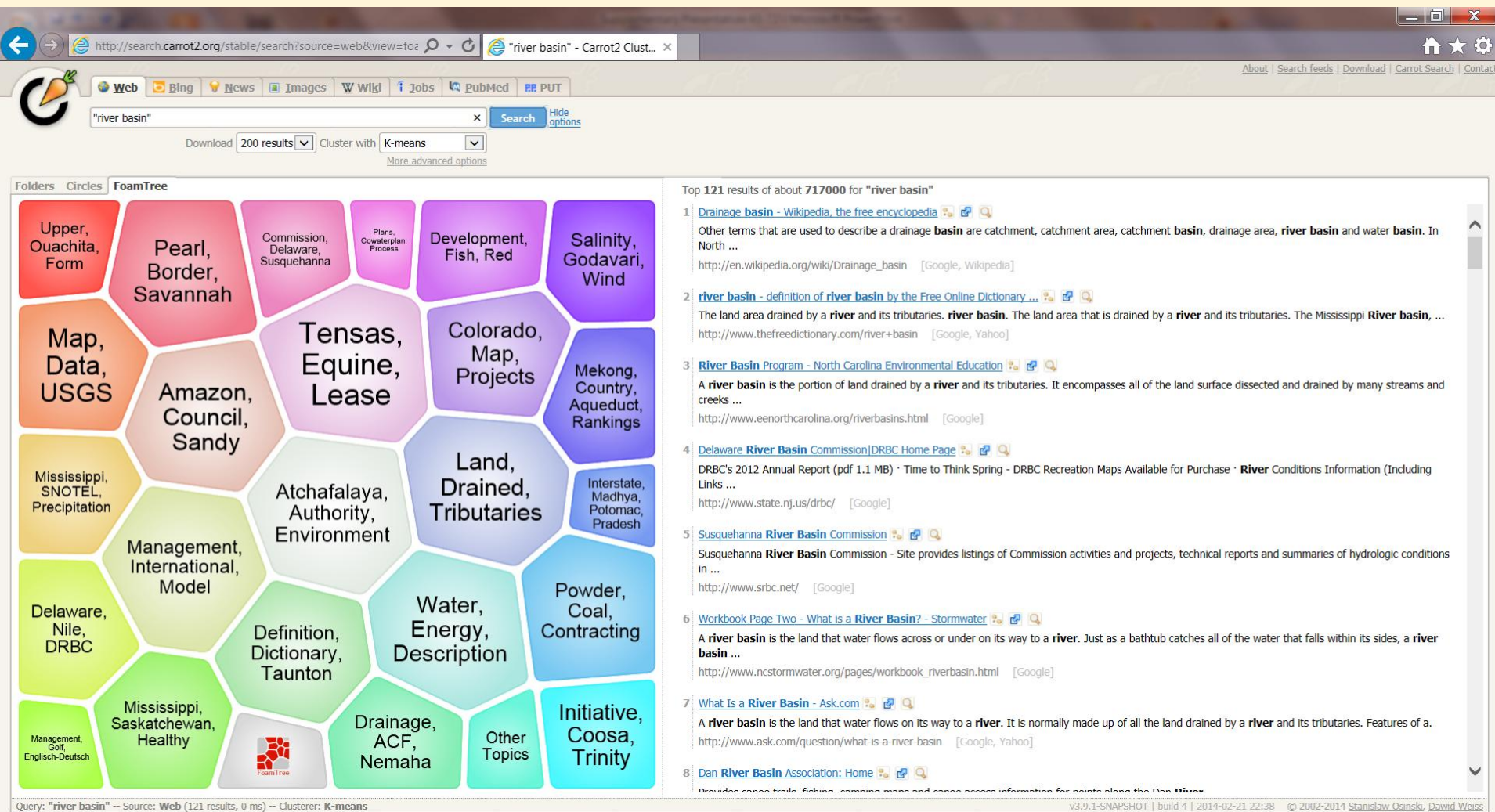


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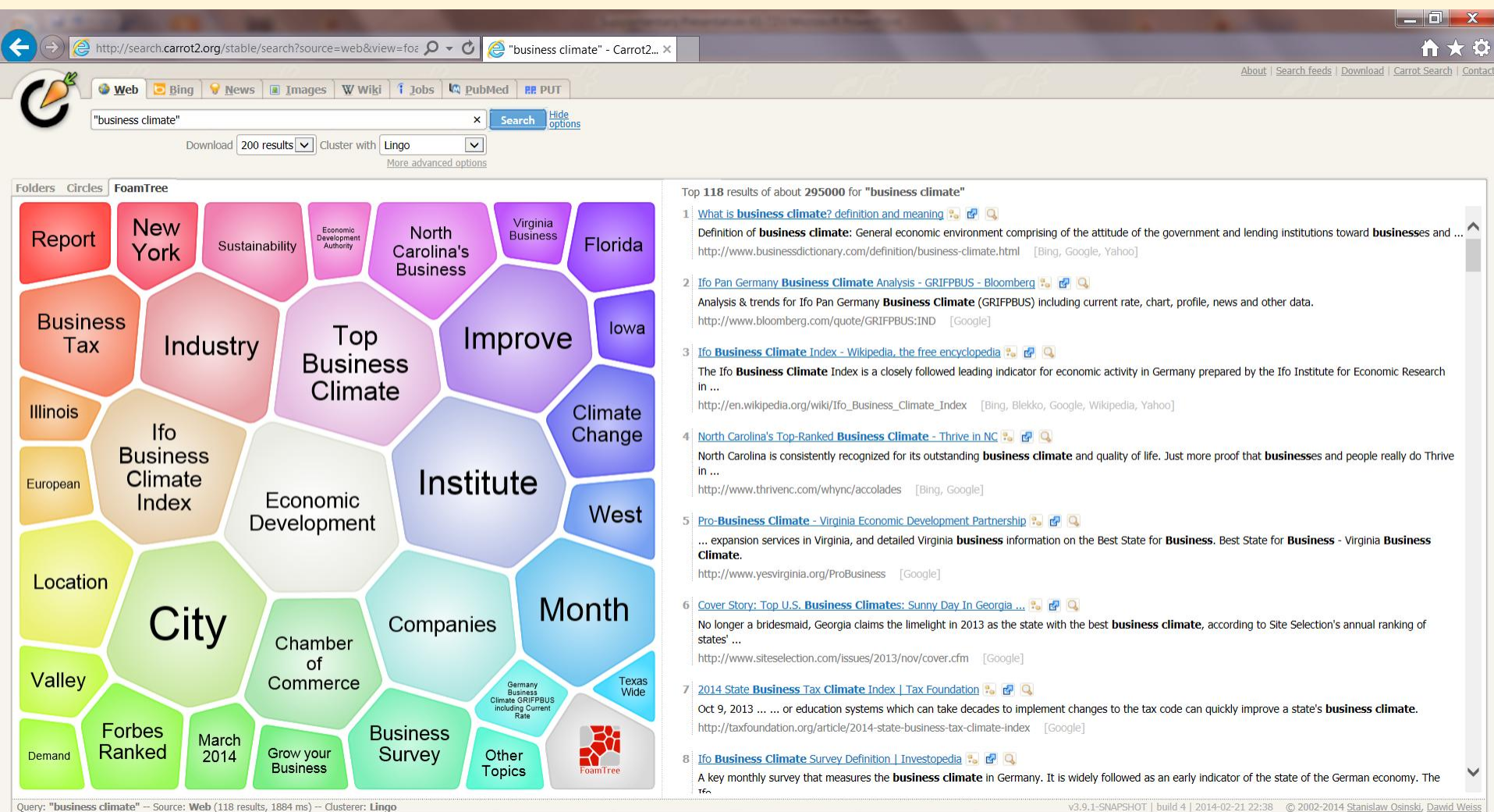
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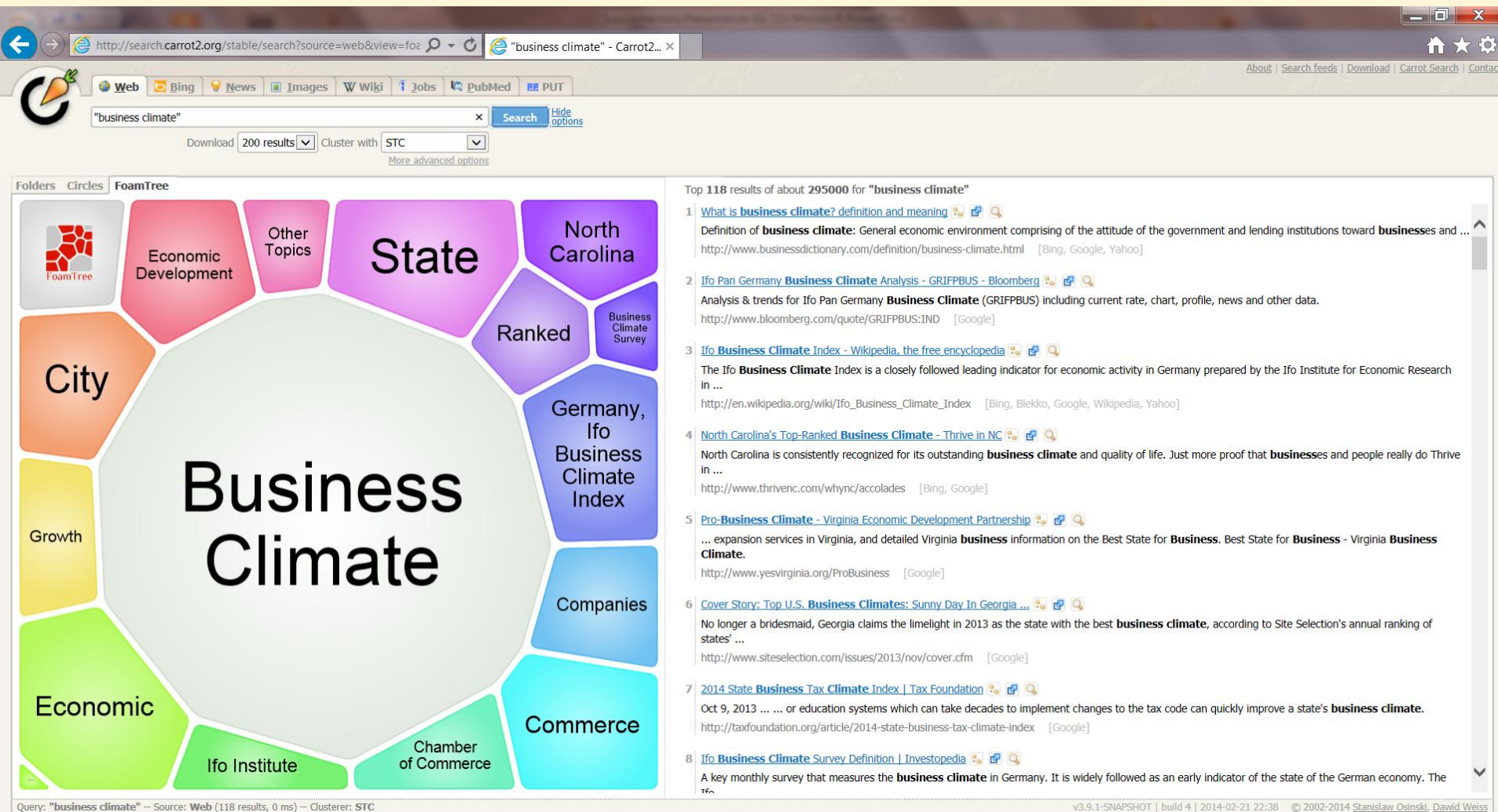


The Carrot<sup>2</sup> Lingo clustering results for the business climate key term *Source*: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)



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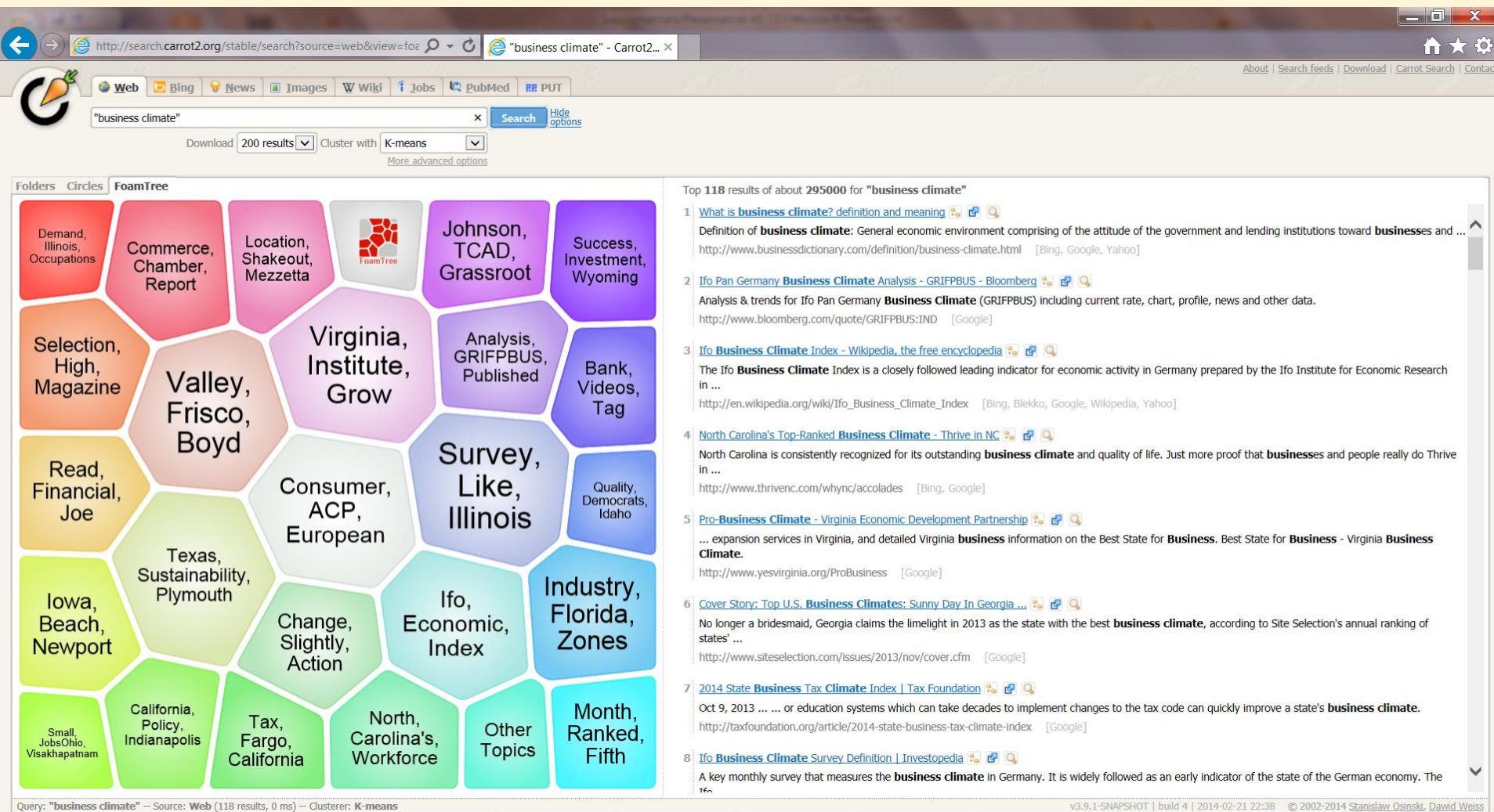


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Search results for "terrorism conditions" (200 results) clustered using Lingo.

Top 65 results of about 167 for "terrorism conditions"

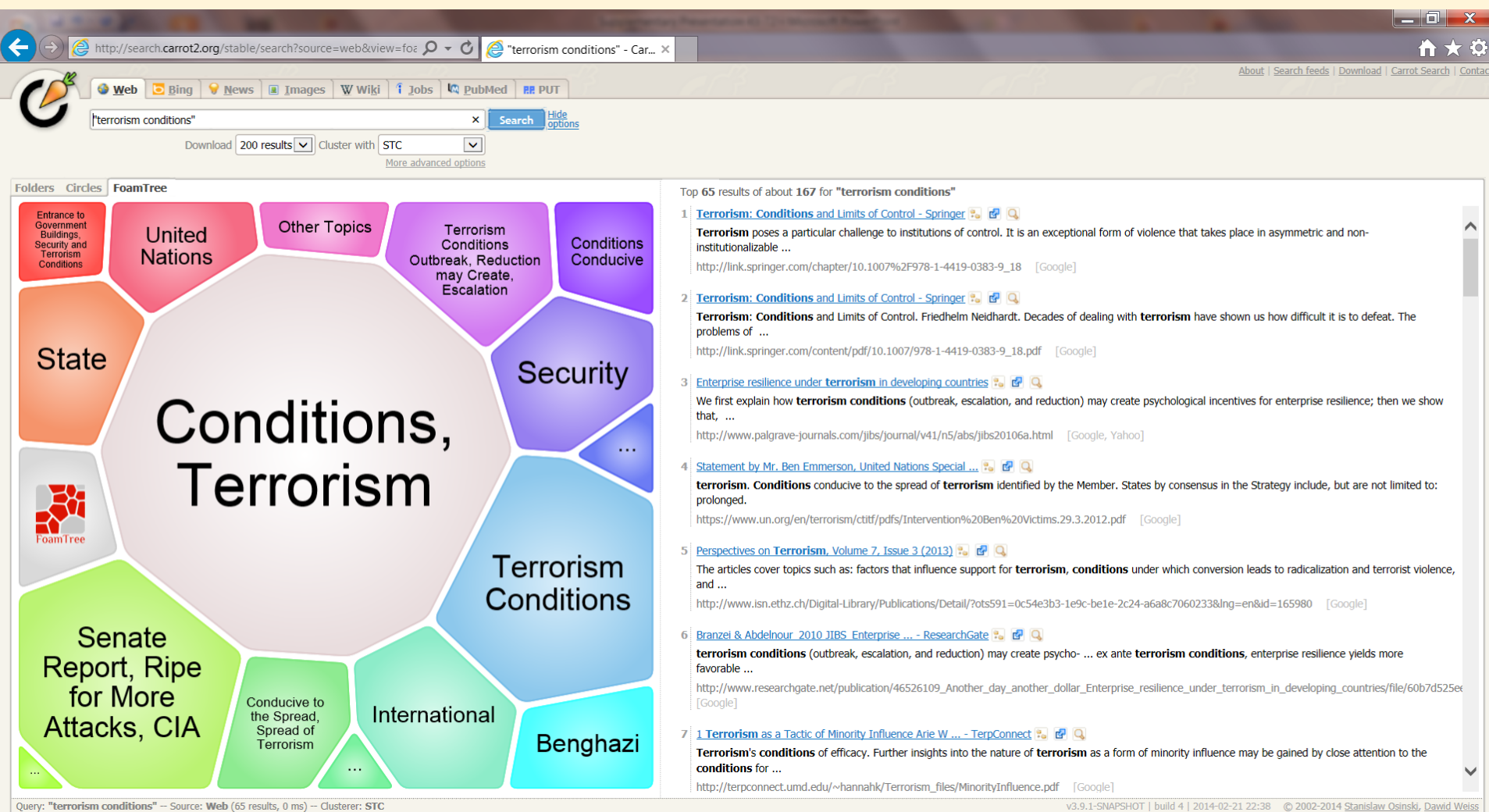
- Terrorism: Conditions and Limits of Control - Springer**  
**Terrorism** poses a particular challenge to institutions of control. It is an exceptional form of violence that takes place in asymmetric and non-institutionalizable ...  
[http://link.springer.com/chapter/10.1007%2F978-1-4419-0383-9\\_18](http://link.springer.com/chapter/10.1007%2F978-1-4419-0383-9_18) [Google]
- Terrorism: Conditions and Limits of Control - Springer**  
**Terrorism: Conditions and Limits of Control.** Friedhelm Neidhardt. Decades of dealing with **terrorism** have shown us how difficult it is to defeat. The problems of ...  
[http://link.springer.com/content/pdf/10.1007/978-1-4419-0383-9\\_18.pdf](http://link.springer.com/content/pdf/10.1007/978-1-4419-0383-9_18.pdf) [Google]
- Enterprise resilience under terrorism in developing countries**  
 We first explain how **terrorism conditions** (outbreak, escalation, and reduction) may create psychological incentives for enterprise resilience; then we show that, ...  
<http://www.palgrave-journals.com/jibs/journal/v41/n5/abs/jibs20106a.html> [Google, Yahoo]
- Statement by Mr. Ben Emmerson, United Nations Special ...**  
**terrorism. Conditions** conducive to the spread of **terrorism** identified by the Member. States by consensus in the Strategy include, but are not limited to: prolonged.  
<https://www.un.org/en/terrorism/ctitf/pdfs/Intervention%20Ben%20Victims.29.3.2012.pdf> [Google]
- Perspectives on Terrorism, Volume 7, Issue 3 (2013)**  
 The articles cover topics such as: factors that influence support for **terrorism, conditions** under which conversion leads to radicalization and terrorist violence, and ...  
<http://www.isn.ethz.ch/Digital-Library/Publications/Detail?ots591=0c54e3b3-1e9c-be1e-2c24-a6a8c7060233&lng=en&id=165980> [Google]
- Branzei & Abdelnour 2010 JIBS Enterprise ... - ResearchGate**  
**terrorism conditions** (outbreak, escalation, and reduction) may create psycho- ... ex ante **terrorism conditions**, enterprise resilience yields more favorable ...  
[http://www.researchgate.net/publication/46526109\\_Another\\_day\\_another\\_dollar\\_Enterprise\\_resilience\\_under\\_terrorism\\_in\\_developing\\_countries/file/60b7d525e](http://www.researchgate.net/publication/46526109_Another_day_another_dollar_Enterprise_resilience_under_terrorism_in_developing_countries/file/60b7d525e) [Google]
- Terrorism as a Tactic of Minority Influence Arie W. ... - TerpConnect**  
**Terrorism's conditions** of efficacy. Further insights into the nature of **terrorism** as a form of minority influence may be gained by close attention to the conditions for ...  
[http://terpconnect.umd.edu/~hannahk/Terrorism\\_files/MinorityInfluence.pdf](http://terpconnect.umd.edu/~hannahk/Terrorism_files/MinorityInfluence.pdf) [Google]

Query: "terrorism conditions" -- Source: Web (65 results, 1915 ms) -- Clusterer: Lingo

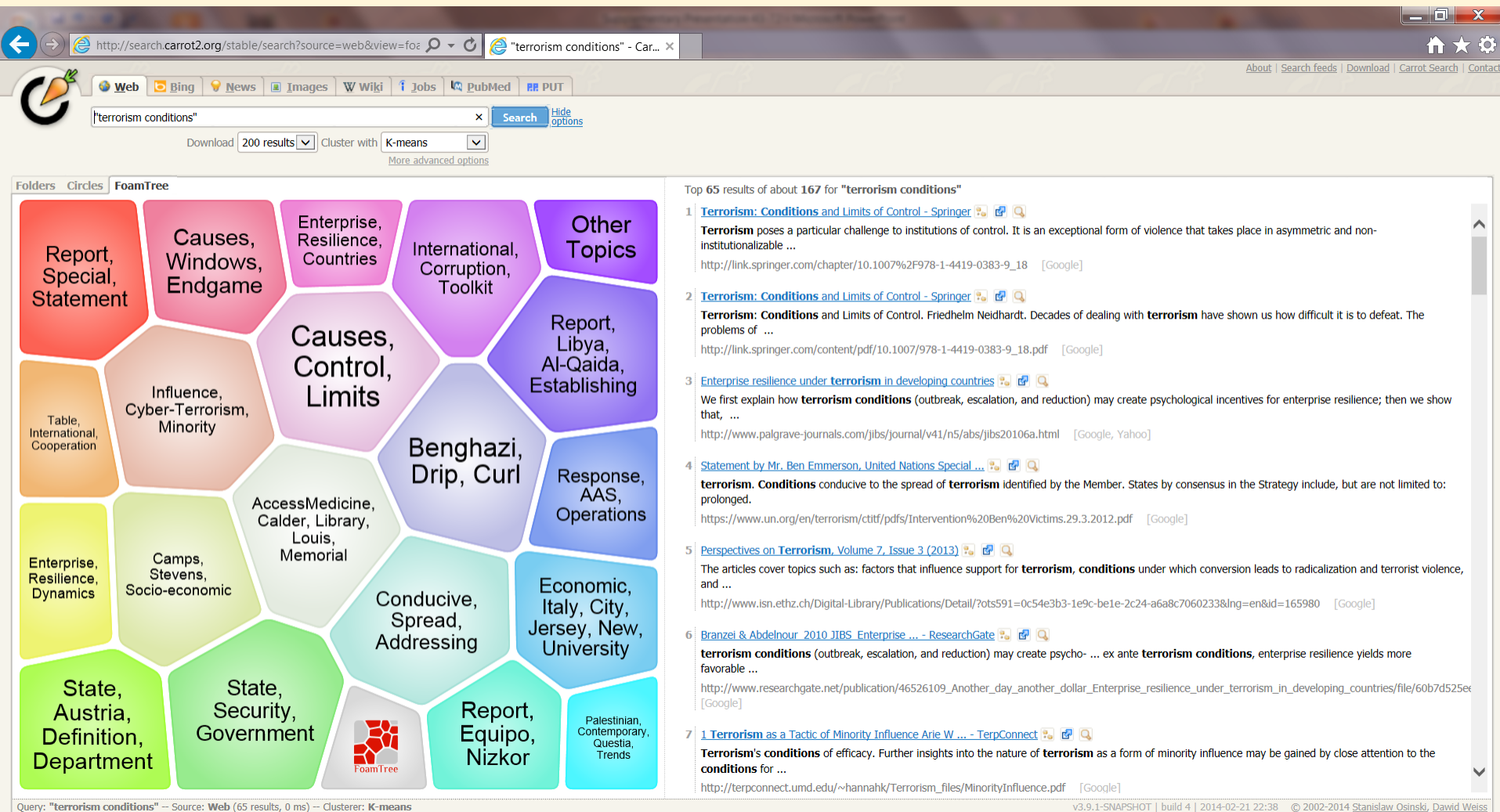


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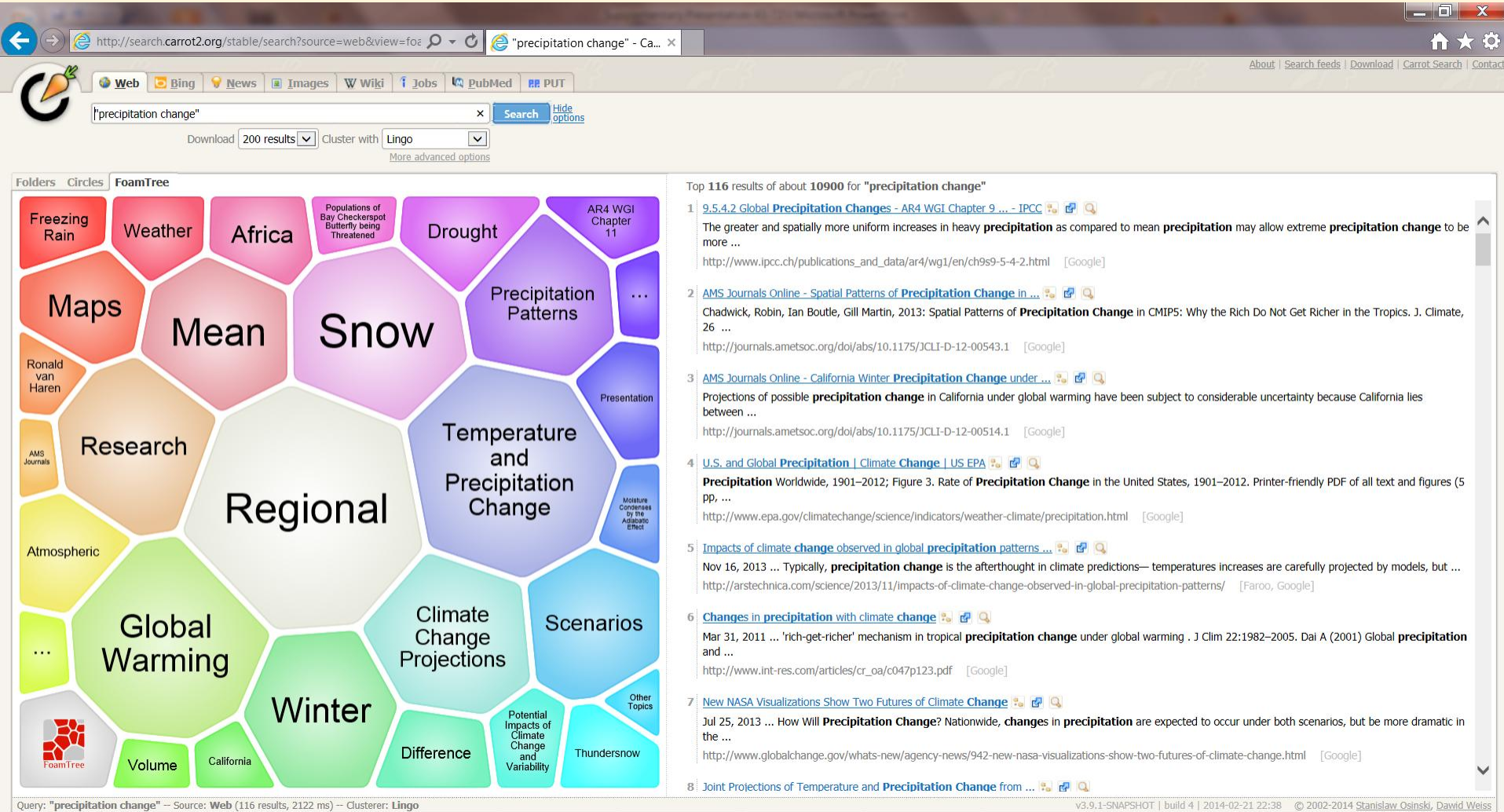


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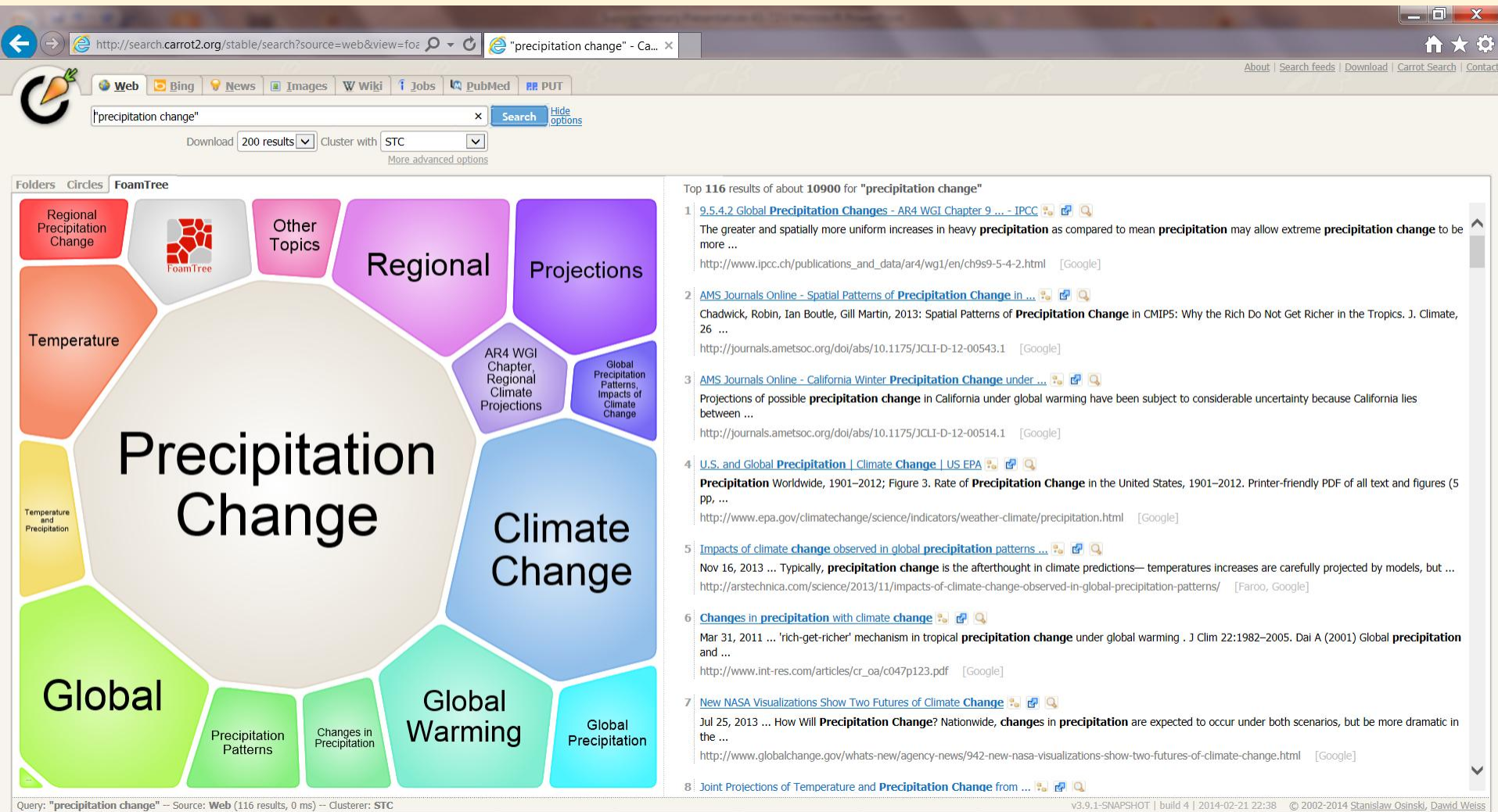
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The Carrot<sup>2</sup> Lingo clustering results for the precipitation change predictions key term *Source*: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)

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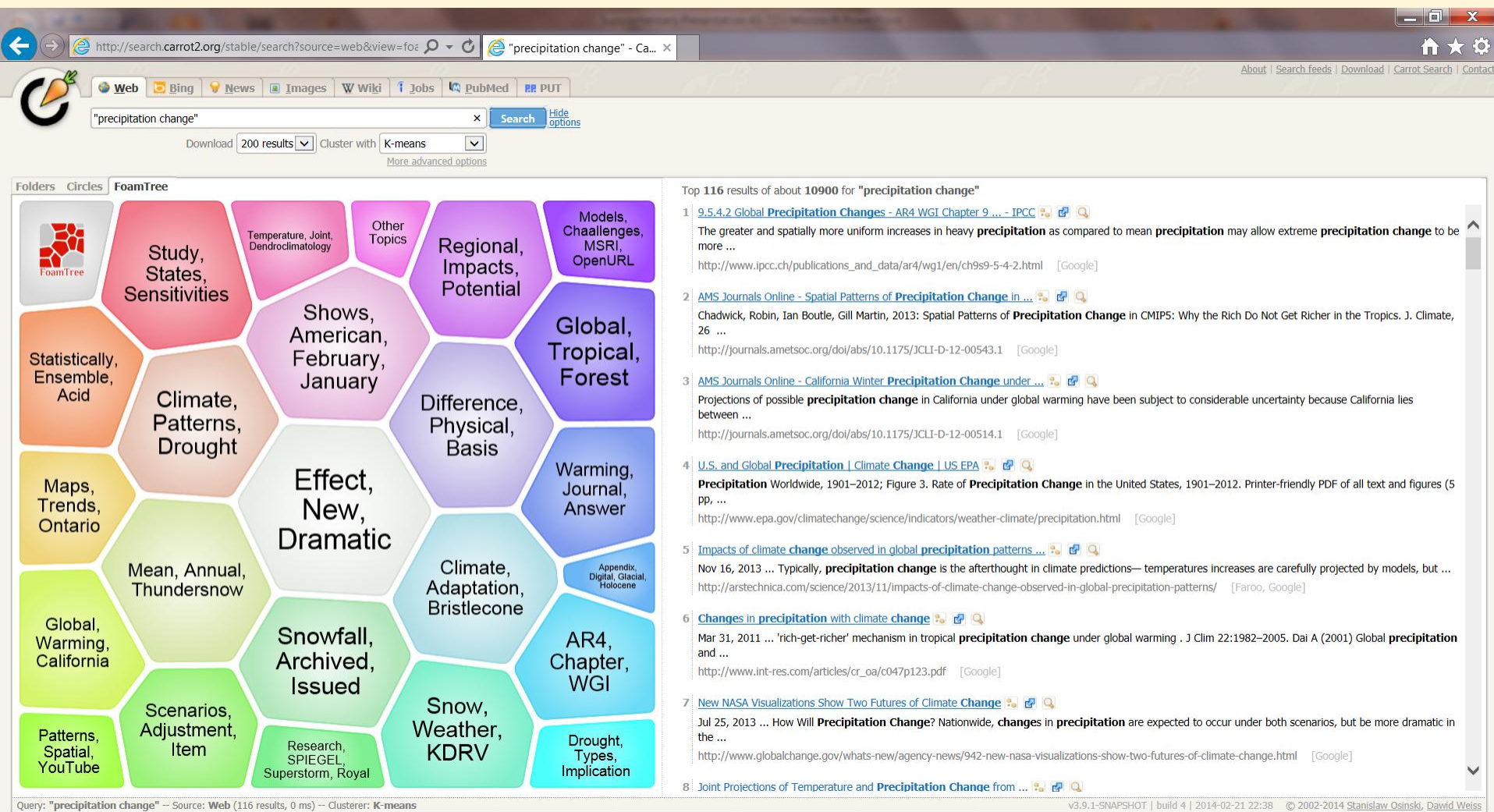
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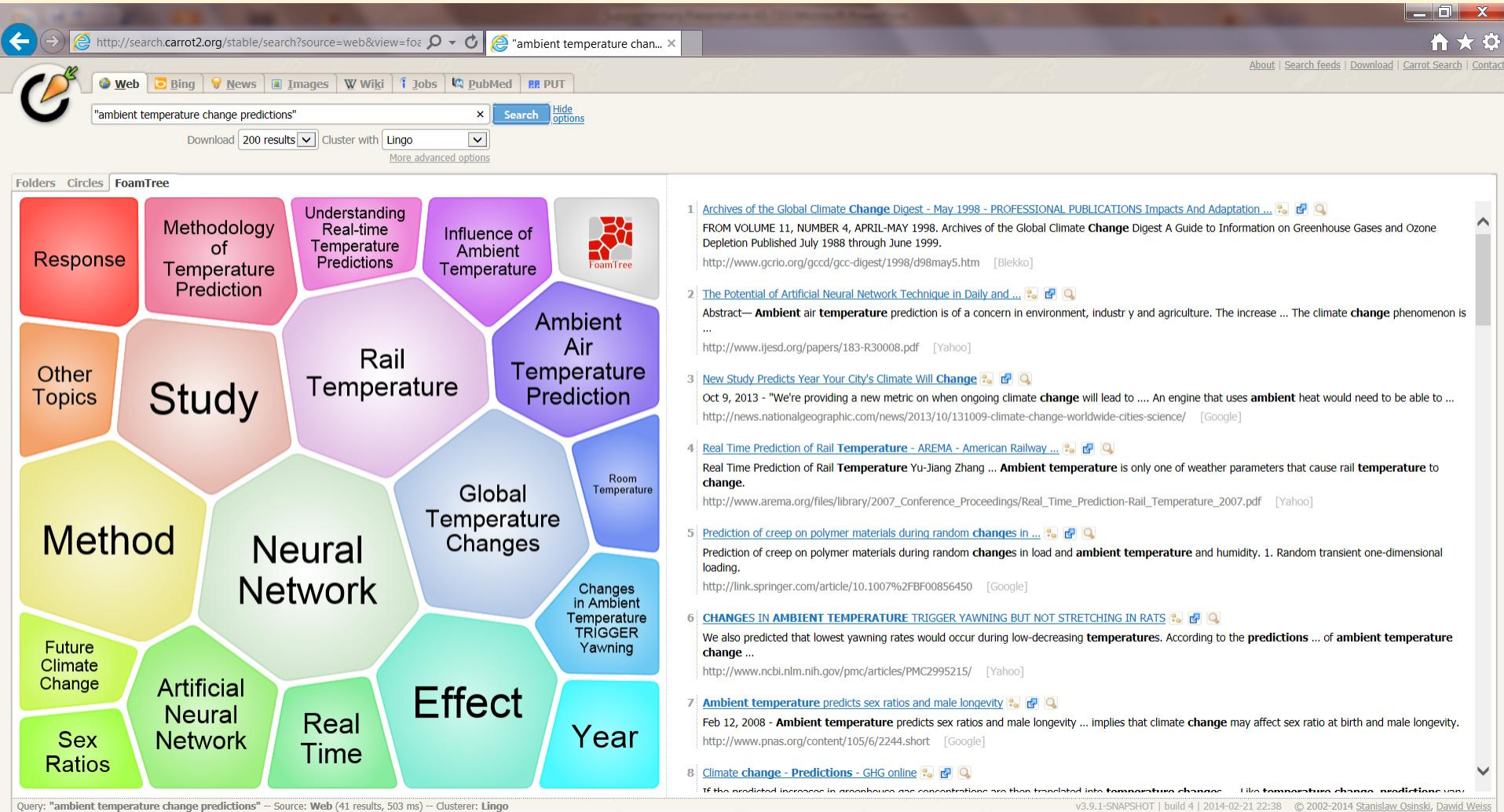
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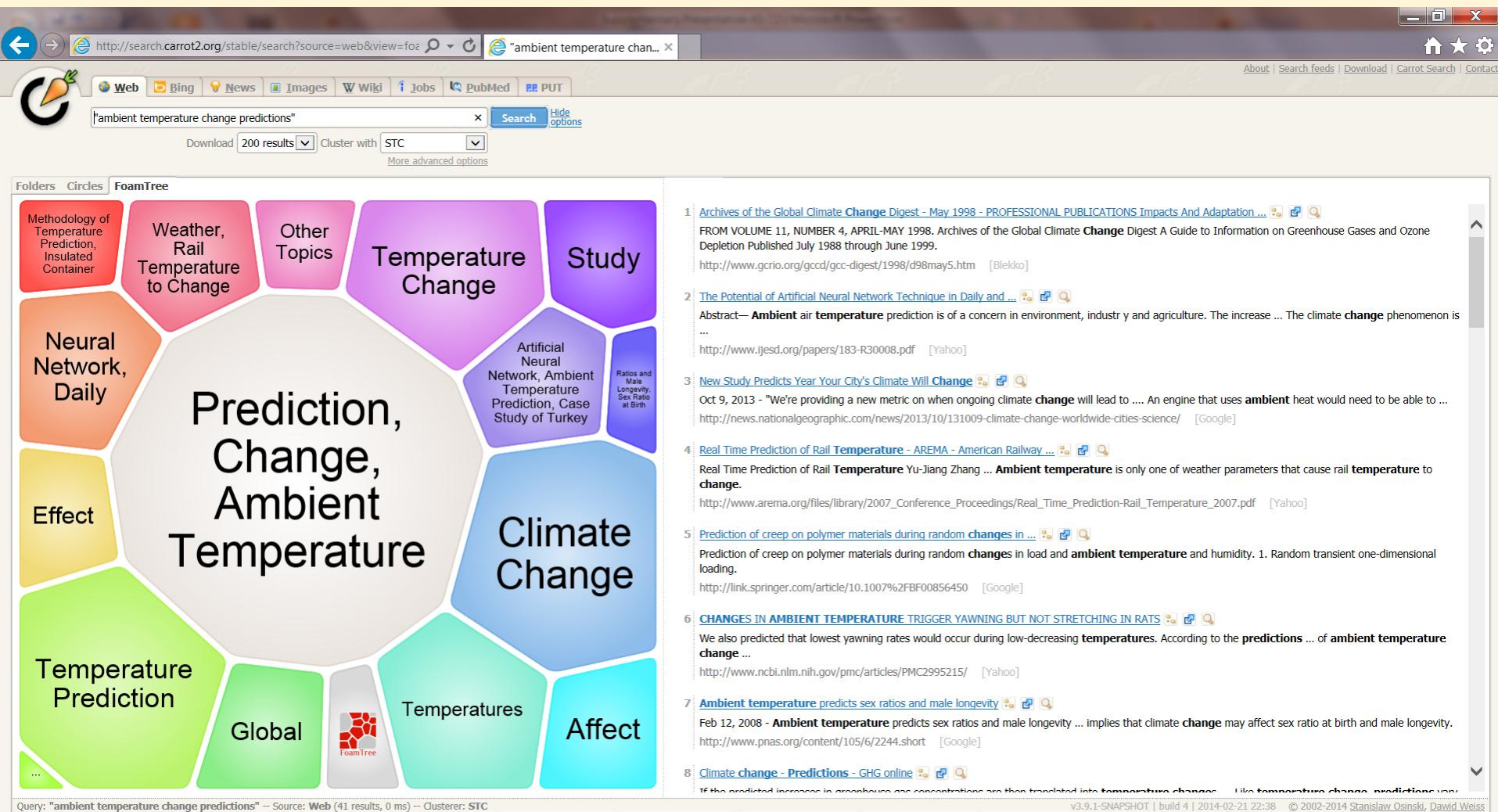


The Carrot<sup>2</sup> Lingo clustering results for the ambient temperature change predictions key term *Source*: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)



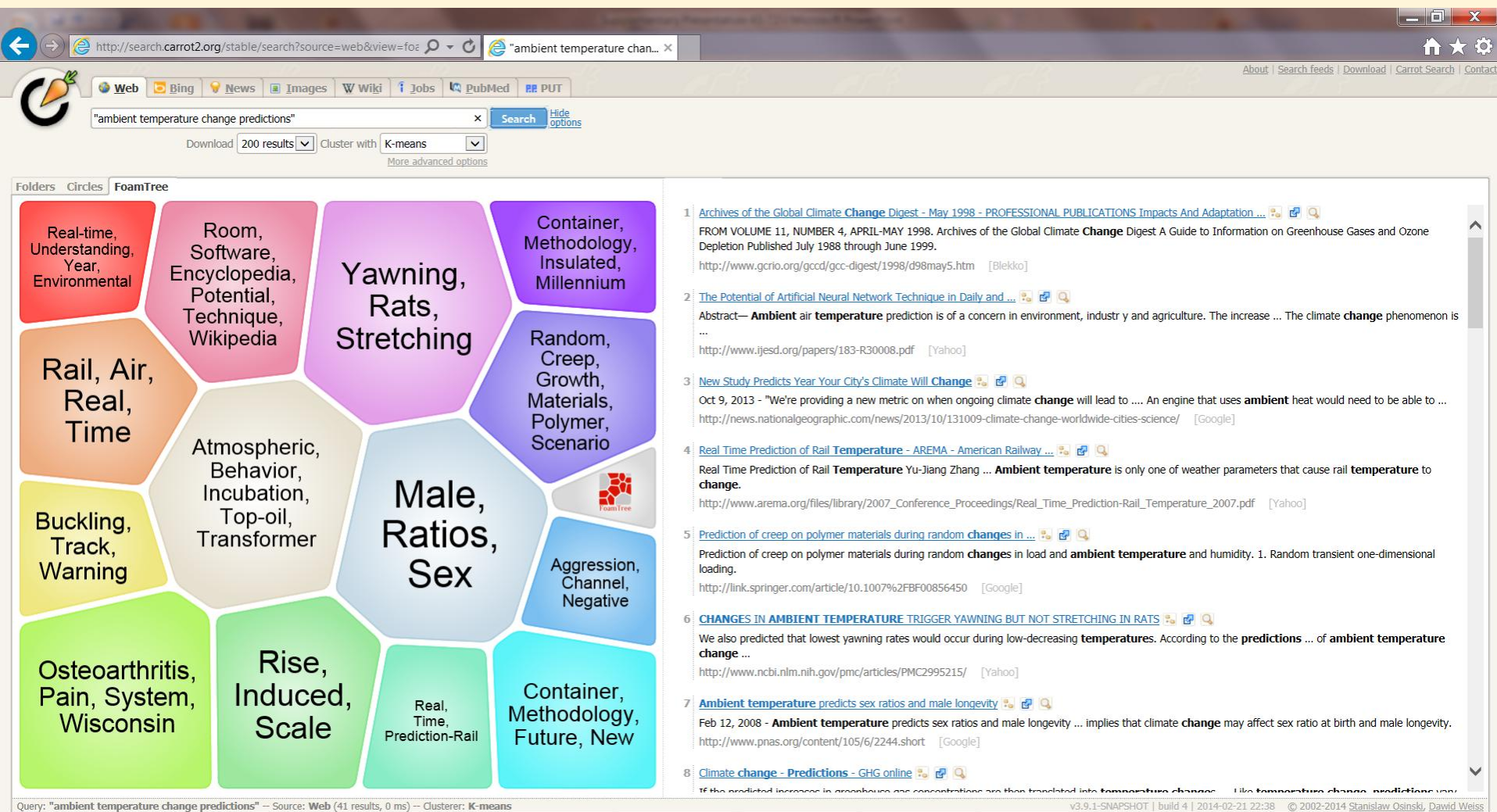
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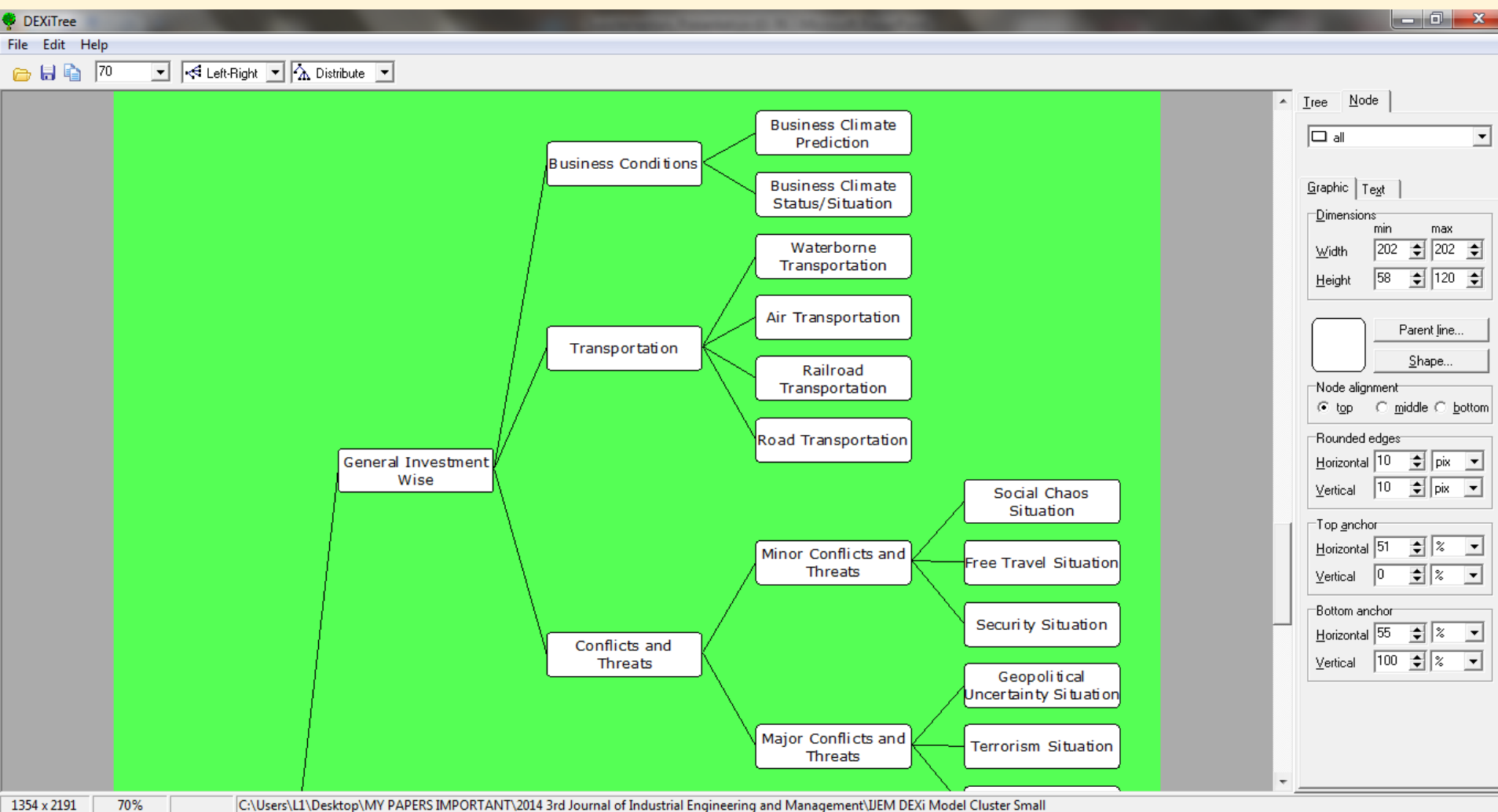


The Carrot<sup>2</sup> K-means clustering results for the ambient temperature change predictions key term *Source*: (Carrot<sup>2</sup>: <http://project.carrot2.org/>)



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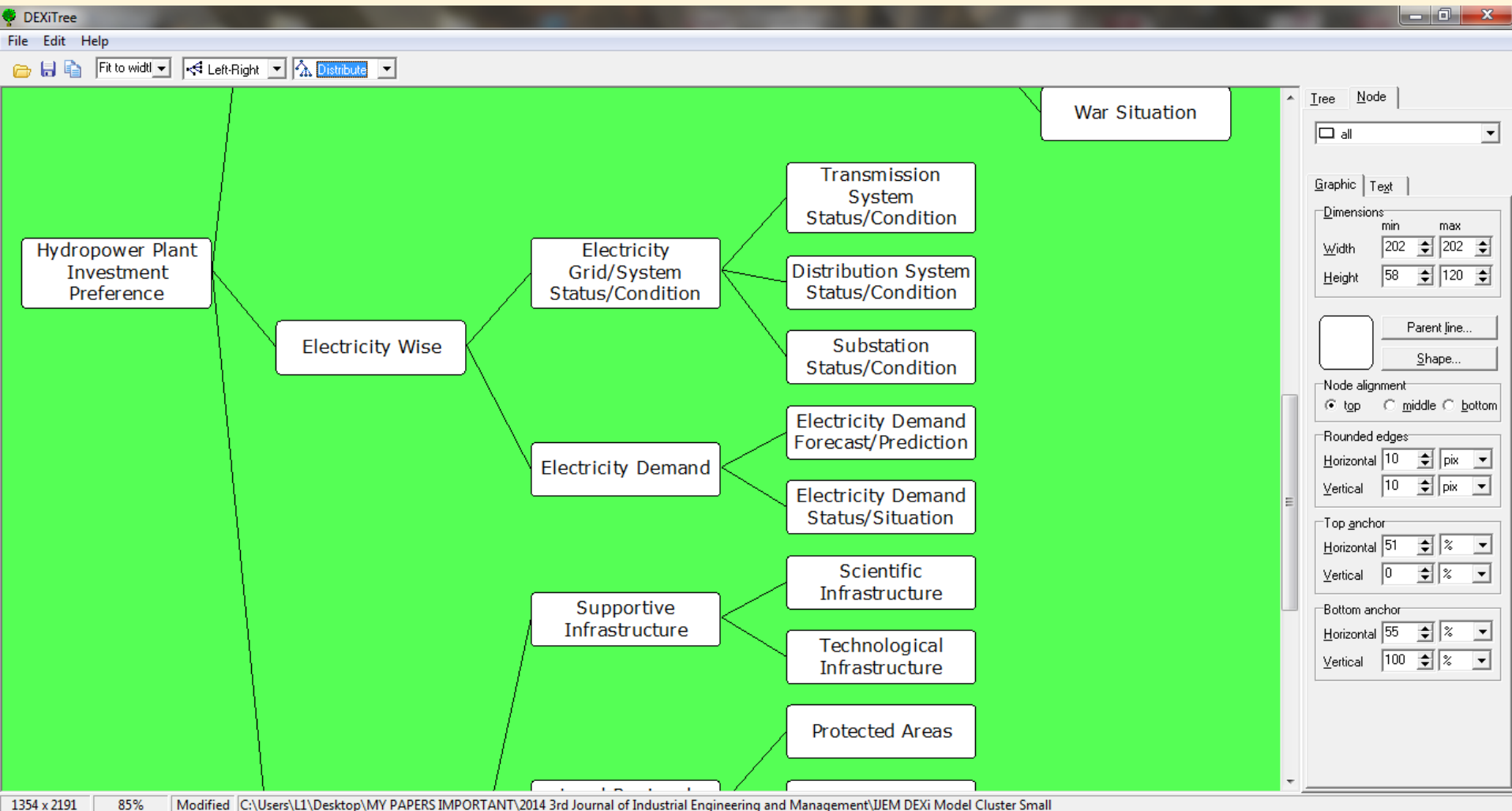
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The DEXiTree screenview of the current model

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