

Search & Map

globalize
your searches



view news that is important to
you & to others around the globe

Why Search'M?

Newspaper Association of
America states that 53% of
adults get their news online.

65% of those adults use
more than one news source
to get their daily news.

Search'M is a new way to
browse and walk through
one's news.

It bridges the gap between
local and global news by
relating current events.

One stop tool for viewing
and searching news
from sources you trust.

Real time news analysis
and instant patterns in
current events.

What is Search'M?

It is a globalized news search engine, stressing the importance
of trends in the news around the world.

Search'M provides an RSS
feed aggregator, search engine,
and different visualizations
for search results.

Users can see where articles
are and the articles they are
related to by viewing their
results on the globe.

Globe
Results

Viewing
Options

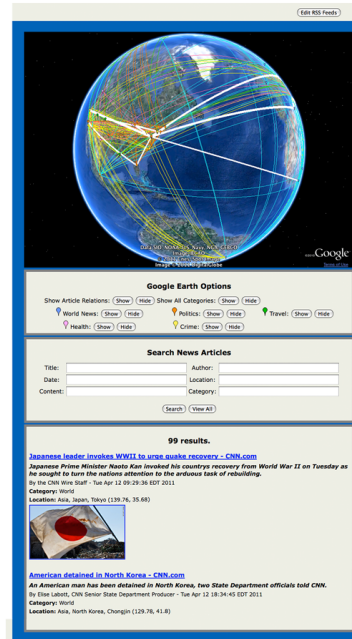
Search
Engine

Search
Result
List

Edit RSS
Feeds

Combine
Search
Attributes

Click title
to see
article in
new tab



Implementation

Deciphering RSS Feeds

Made use of the ROME API to parse each RSS feed
for the individual articles.

Articles Unstructured

An algorithm was developed so an article's metadata can
be collected no matter the structure of the website. This
was done by using the Jericho API and Java SAX API.

Seamless Interface with Globe

At first there was a Search'M application, a web
browser, and a separate Google Earth window. Now
it uses the Javascript API for Google Earth to embed
the globe into the Search'M user interface in a browser.

Keyword Generation

Find all nouns in an article and their frequencies.
Calculate the relevance percentage by dividing the
frequency of each noun by the number of total nouns.

more frequent = higher relevance %
less frequent = lower relevance %

Relating Articles to Each Other

Two articles are related by the value of their similarity
score. This is calculated by comparing the relevance
percentage of all the overlapping nouns in two articles.

Search'M is a desktop
application that allows
you to visualize your
news in a globalized
way. Search'M lets you
choose news that is
important to you, and
it determines how
articles are related to

Search'M was created
by Krista Bacungan, a
Senior majoring in
computer science. It is
a senior design project
that combines a news
aggregator, advanced
search engine, Google
Earth and articles that

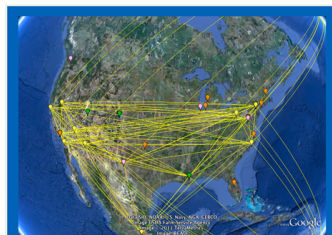
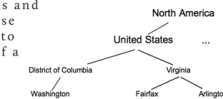
Geotagging Primary Location

Give priority to the position
of the location in the text
and it's frequency. Most news
articles list location of the
article in the first sentence.

Ambiguity between
locations and other
nouns. ex. Jordan
the country and
Jordan the name

Database with all locations and
mapped coordinates. Use
location hierarchy tree to
determine coordinate of a
non-city location.

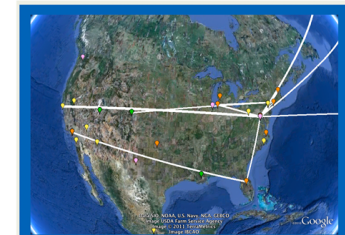
example:
United States ▶ Washington, D.C.
Virginia ▶ Fairfax



Category lines to show articles.
Color coordinated.



Article information when place
mark is clicked on.



Shows how related articles are.
Thicker line means more related.



Relationship information when
relational line is clicked on.