

# Search'M – Search and Map

---



## Globalize Your Searches

*Search and view news that is important to you and others around the globe*

## User Manual

---

Krista Bacungan  
April 29, 2011

# System Requirements

- Mac OS X Version 10.5.8
  - Processor: 2.66 GHz Intel Core 2 Duo
  - Memory: 4 GB 1067 MHz DDR3
- Search'M will run on other platforms but the SearchM/POS.sh file needs to be changed in order to run correctly

# Software Requirements

- Eclipse IDE for Web Developers
  - Version: 3.5.2
  - <http://www.eclipse.org/>
- Apache Tomcat
  - Version: 5.5.31
  - <http://tomcat.apache.org/>
- XAMPP
  - Version: 1.7.3
  - <http://www.apachefriends.org/en/xampp.html>

Following external libraries are used in Search'M and can be found in codebase/SearchM/lib

- Jericho HTML Parser Library
  - Version: 3.1
  - <http://jericho.htmlparser.net/docs/index.html>
- Java.net Rome Library
  - Version: 1.0
  - <http://java.net/projects/rome/>
- Apache Lucene Library
  - Version: 1.9
  - <http://lucene.apache.org/java/docs/index.html>

# Installation

- Install up Tomcat
- Install XAMPP
  - Turn on XAMPP and start Apache and MySQL
- Import SearchM project into Eclipse
  - Set up a server in Eclipse and point it to the Tomcat you installed
- Import MySQL files into XAMPP phpMyAdmin - <http://localhost/phpmyadmin/>
  - Import codebase/SearchM/MySQL/SearchM.sql
  - Import codebase/SearchM/MySQL/SearchMData.sql
- Run the SearchM project in eclipse on the Tomcat server you made
  - SearchM will open in a internet browser tab within eclipse

# Deployment

- Copy classes
  - codebase/SearchM/bin/searchm -> codebase/SearchM/WebContent/WEB-INF/classes/searchm
- Export the project as a WAR file
  - Place in TOMCAT\_HOME/webapps/searchm.war
- Turn on XAMPP and start Apache and MySQL
- Go to <http://localhost:8080/searchm/>
  - SearchM will open in the internet browser tab

## Project Variables

Please change the following to match the path of Search'M on your system

- Package: searchm.dbInterfaceModule
  - private final String dbURL = \_CHANGE\_PATH\_;
- Package: searchm.newsIndexer.article in POSscript(...)
  - String fileinput = \_CHANGE\_PATH\_;
  - String [] cmd = {"sh", \_CHANGE\_PATH\_};
- Package: searchm.newsIndexer.article in POSscript(...)
  - If system is not Mac OS change below to work on your platform
  - Process process = Runtime.getRuntime().exec(cmd);

## Running Search'M

RSS feeds

- Click on Edit RSS Feeds
  - Add a valid RSS Feed URL
  - Remove an existing RSS Feed URL
    - Search'M will no longer monitor this feed
- Wait a few seconds for articles to be added before searching

Search

- Put search parameters in search box and click Search
- Results
  - Traditional search list
    - Article information listed here
    - Click on URL link to see full article in a new tab
    - Result articles that are geotagged and not geotagged are present
  - Google Earth
    - Lines
      - Show and hide lines from the Google Option Box buttons
      - Category Lines
        - All articles in the same category are connected by the same color
        - Color is the same as the place mark colors and this appears in the option box for convenience
        - Clicking on a line brings up a text bubble telling you which category it is
      - Relational Lines
        - White lines connect articles that are related

- The thicker the line the more related they are
  - Clicking on a line brings up a text bubble that tells you how related the articles are, what their common key words are, their URLs, and their descriptions
- Place marks
  - Each place mark represents an article
  - The color of the place mark is in accordance to the articles category. The key appears in the option box for convenience
  - Clicking on a place mark brings up a text bubble with the article information and its images. Click on its URL to see the full article in a new tab
  - If there are multiple articles in the same location, click on the shown place mark and all the other place marks will expand.
  - Hovering over a place mark shows you the article title

#### View all articles

- Click on View all button
- Shows all the articles in Search'M