WorldMap

GIS for the Digital Humanists

February 27, 2014
Wentworth Institute of Technology

Build your own mapping portal and publish it to the world or to just a few collaborators. WorldMap is open source software.

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Harvard University
Why WorldMap & what are its features?

A brief history of WorldMap
• Purpose & Features – visitation & users –
  about.worldmap.harvard.edu

Basic Concepts & Definitions
• Layers – a virtual stratigraphy
• Spherical Mercator – the Google/Bing projection
• Base map options – Google, OpenStreetMap & Others

Examples
• A Tour of WorldMap sites which demonstrate its features
• Courses where WorldMap is used for presenting content
• Courses where Students contribute content

WorldMap Advanced Features
• Online Georeferencing – warp.worldmap.harvard.edu
• Large Scale Maps with extensive micro data
• Web Services
WorldMap provides researchers with the ability to:

- **Upload** large datasets and overlay them up with thousands of other layers
- **Create and edit maps** and link map features to rich media content
- **Share edit or view access** with small or large groups
- **Export data** to standard formats
- **Make use of powerful online cartographic tools**
- **Georeference** paper maps online
- **Publish** one’s data to the world or to just a few collaborators

http://about.worldmap.harvard.edu

http://warp.worldmap.harvard.edu

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As of January, 2014:

- 9,966 registered users
- 11,364 data layers added by users, containing 153,485 data fields
- 2,945 map collections created
- 580,000 unique visitors coming from every country
- About 1000 unique visitors per day
Geographic Information Software

... Is Evolving

- Server Centric
- Networked
- Many Clients
- Internet Based
- Loosely Coupled
• **Cloud Services** – application hosting in a remote data center with high-availability and the ability to expand (add more servers) or reduce resources depending upon user demand.

  **WorldMap** runs on Amazon’s Cloud [aws.amazon.com/ec2](http://aws.amazon.com/ec2)

• **Web-based application** deployment requires no on-site IT support except a broad Internet connection and user laptops/desktops.

  **WorldMap** – designed for **Firefox** and **Chrome** (open source code browsers)
Tour of WorldMap

- Layout
- Layers
- Maps
- Tool Bar Features
- Annotation — Dead Sea
- Symbolization
- Search
- Mobile Client

Features & Release Schedule
http://about.worldmap.harvard.edu/icb/icb.do?keyword=k28501&pageid=icb.page480835

DEMO
worldmap.harvard.edu/maps/neareastcollab
# Mapping by Topic

<table>
<thead>
<tr>
<th>Topic</th>
<th>Map Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Justice – Get on the Map for Women &amp; Girls</td>
<td>worldmap.harvard.edu/womenintheworld/</td>
</tr>
<tr>
<td>Africa Map – Trade Routes, Ethnicity, Health &amp; More</td>
<td>worldmap.harvard.edu/maps/africamap/Ji-</td>
</tr>
<tr>
<td>China Map</td>
<td>worldmap.harvard.edu/chinamap/</td>
</tr>
<tr>
<td>World Economy</td>
<td>worldmap.harvard.edu/maps/WorldEcon</td>
</tr>
<tr>
<td>African Health Facility Capacity – Choropleth Map</td>
<td>worldmap.harvard.edu/maps/3947</td>
</tr>
</tbody>
</table>
Courses at Harvard that Use WorldMap – a sampling

- “World Religions and Multicultural America” taught by Diana Eck
- “Reinventing Boston: The Changing American City” taught by Rob Sampson and David Luberoff
  - [worldmap.harvard.edu/boston/](http://worldmap.harvard.edu/boston/)
- “Societies of the World 28” taught by Kelly O’Neill
  - Sacred Spaces in the City of Ile-Ife, Nigeria [worldmap.harvard.edu/maps/834/JjM](http://worldmap.harvard.edu/maps/834/JjM)
- “Chinese History 200R”, “Societies of the World 12”, “Culture and Belief 26” taught by Peter Bol
Courses where students were required to post research on WorldMap

Literature
CB51 All Saints -
http://worldmap.harvard.edu/maps/cb51_all saints/JHf

History
E-1550 Soils & Empire (Russia)
http://worldmap.harvard.edu/maps/trial/JHI - produced by four students
Sites where Reference content resides

Social Science Projects
America’s Religious Landscape -
http://worldmap.harvard.edu/maps/pluralism-twin_cities
St. Louis Decline
http://worldmap.harvard.edu/mappingdecline/

Economics
Medieval China Transportation Routes
http://worldmap.harvard.edu/maps/chinamap/JjF

Electricity Transmission in Africa
http://worldmap.harvard.edu/maps/electricitytransmissionmap/Ji7

Political Demography
Naturalized Brazilian Citizens & Voting Patterns
http://worldmap.harvard.edu/maps/digaaiddatahub/JjH
Research Maps

Archaeology & Digital Archive
Kition – Phoenician Port on Cyprus in 1st Millennium BCE
http://worldmap.harvard.edu/maps/MedCoastGIS/Jji
http://hdl.handle.net/1902.1/15837  Digital Archive Collection

Shikhin
http://worldmap.harvard.edu/maps/neareastcollab/Jli
Zoom & Click

Giza
1878 Giza Plan - http://worldmap.harvard.edu/maps/neareastcollab/Jlk
Related Maps
Contact Info

WorldMap Collaborative

5 PM – Monday Afternoons during academic year
or by appointment

Weekly Walk-in/Login Workshop

Knafel Building 031 (Concourse Level), Harvard

1737 Cambridge St, Cambridge, MA
(North of Yard)

Or Online via Video Conference
(thru end of March)

To join the Meeting: https://bluejeans.com/145901999
To join via Browser: https://bluejeans.com/145901999/browser

After March, contact Jeff for Video Conference info.

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