

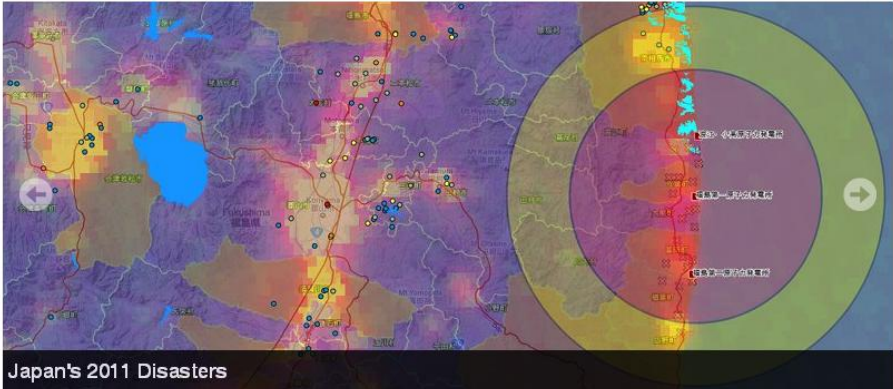
WorldMap

GIS for the Digital Humanists

February 27, 2014

Wentworth Institute of Technology

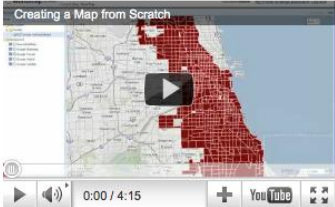
[Create a Map](#) [View a Map](#) [About](#)



Japan's 2011 Disasters

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

Creating a Map from Scratch



0:00 / 4:15

[Watch the WorldMap Quick Start video](#)



Jeff Howry, Ph.D.
Harvard University

WorldMap Overview

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

Why WorldMap?

WorldMap provides researchers with the ability to:

<http://about.worldmap.harvard.edu>

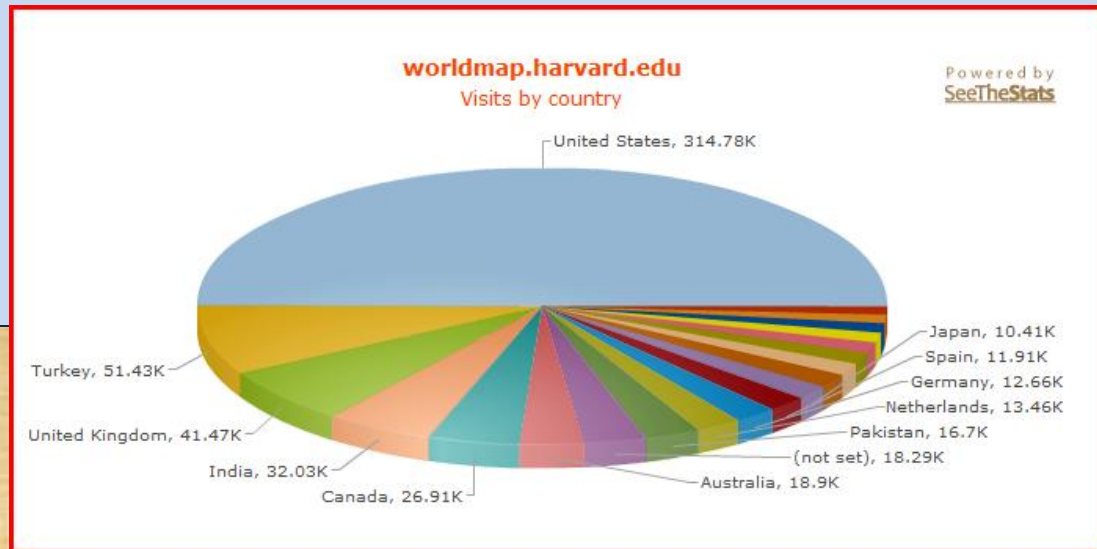
- **Upload** large datasets and overlay them up with thousands of other layers
 - **Create and edit maps** and link map features to rich media content
 - **Share edit or view access** with small or large groups
 - **Export data** to standard formats
 - Make use of powerful **online cartographic tools**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

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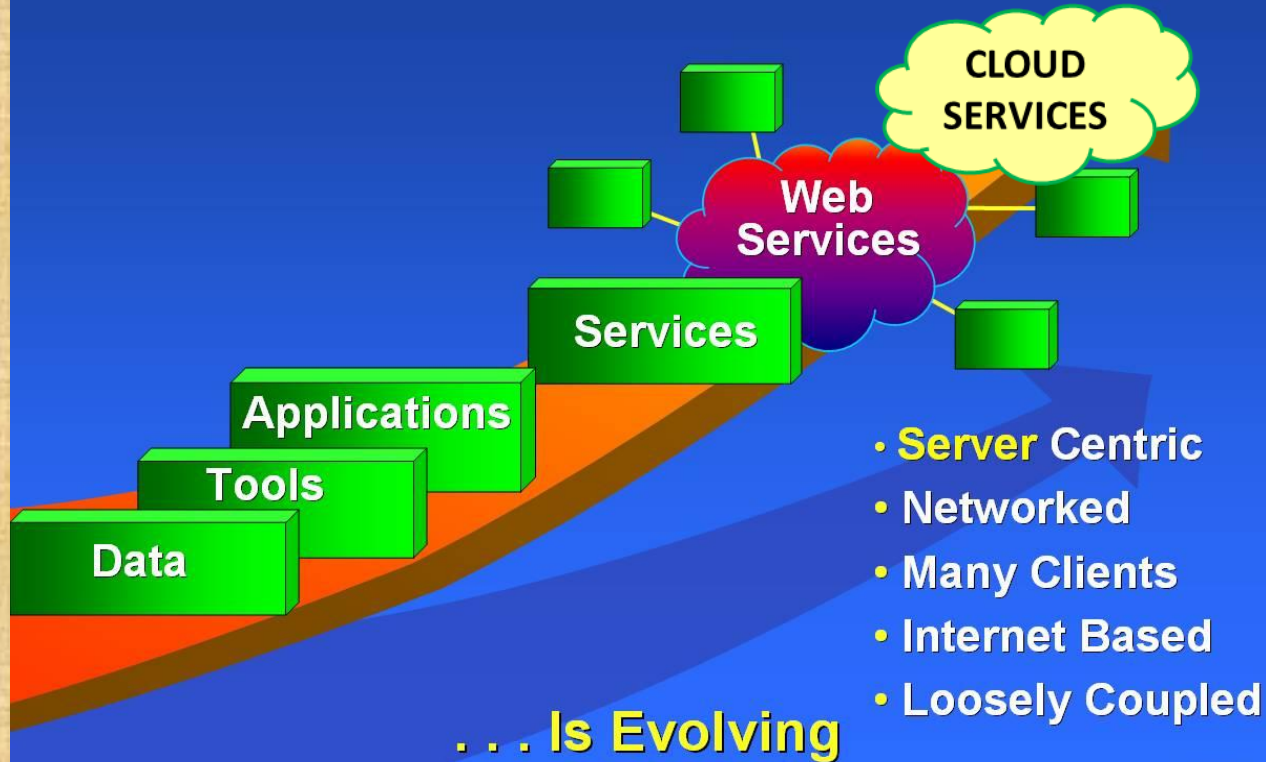
WorldMap System Statistics

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



UC2002Final-JD 6

Cloud Services & WorldMap

- **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

- **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

DEMO

worldmap.harvard.edu/maps/neareastcollab

Features & Release Schedule

<http://about.worldmap.harvard.edu/icb/icb.do?keyword=k28501&pageid=icb.page480835>

Mapping by Topic

Social Justice – Get on the Map for Women & Girls

worldmap.harvard.edu/womenintheworld/

Africa Map – Trade Routes, Ethnicity, Health & More

worldmap.harvard.edu/maps/africamap/Ji-

China Map

worldmap.harvard.edu/chinamap/

World Economy

worldmap.harvard.edu/maps/WorldEcon

African Health Facility Capacity – Choropleth Map

worldmap.harvard.edu/maps/3947

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/
- “Societies of the World 28” taught by Kelly O’Neill
- “The African City”, “The African Past: Art and History to 1800” taught by Suzanne Blier
 - Sacred Spaces in the City of Ile-Ife, Nigeria
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_allsaints/JHf

History

E-1550 Soils & Empire (Russia)

<http://worldmap.harvard.edu/maps/trial/JHI> - **produced by four students**

WorldMap Sites where Reference Content resides

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/digaaidatahub/JjH>

WorldMap Research Sites – Examples from the Near East

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>

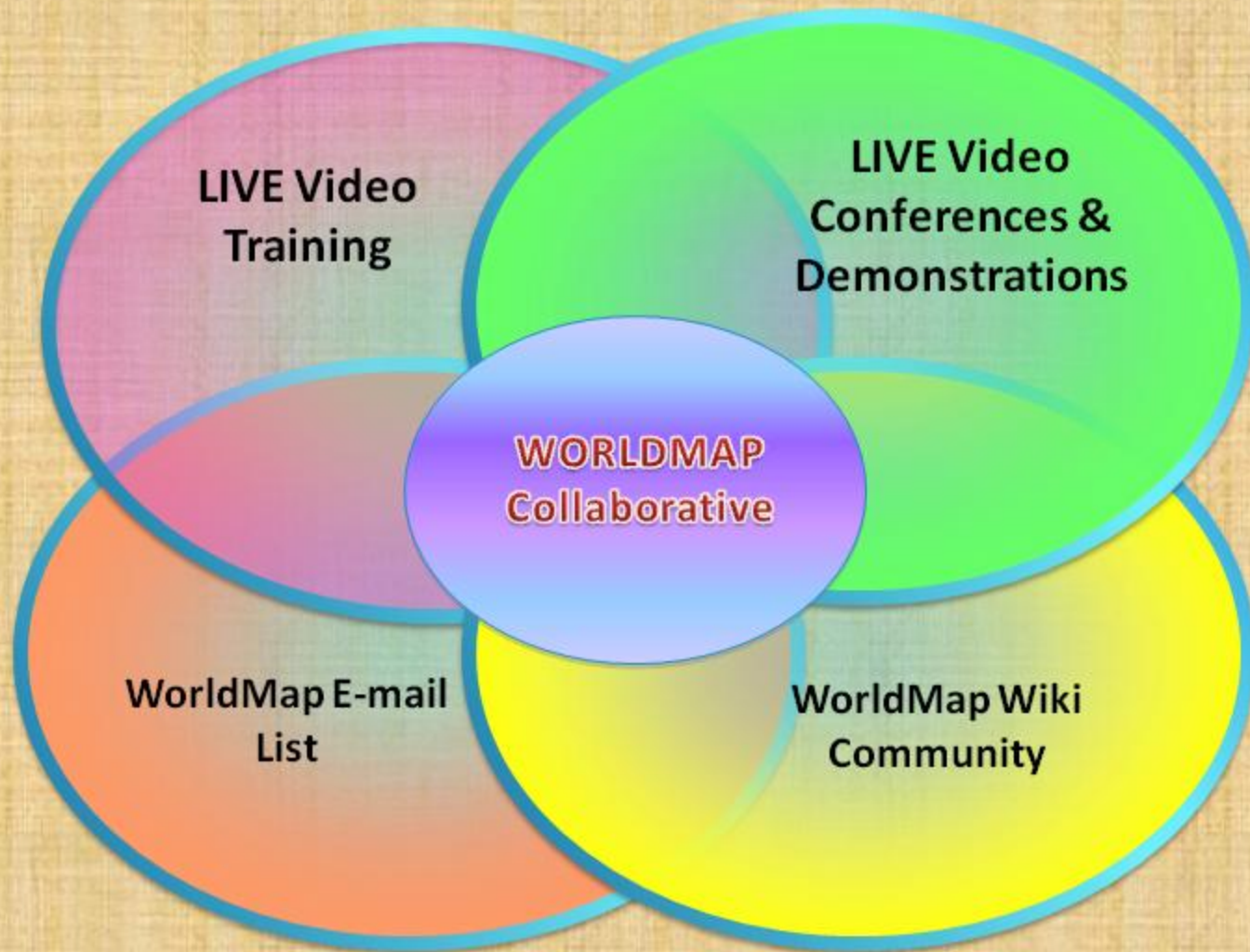
Zoom & Click

Giza

1878 Giza Plan - <http://worldmap.harvard.edu/maps/neareastcollab/Jlk>

Related Maps

WorldMap Collaborative



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.

jhowry@fas.harvard.edu