## TileMill



Dane Springmeyer Development Seed Foss4g Sept 14, 2011

## devseed

## Development Seed and Mapping

Solid design, simple maps: <a href="http://preparedness.interaction.org">http://preparedness.interaction.org</a>

Big data sites / results in context: <a href="http://afghanistanelectiondata.org">http://afghanistanelectiondata.org</a>

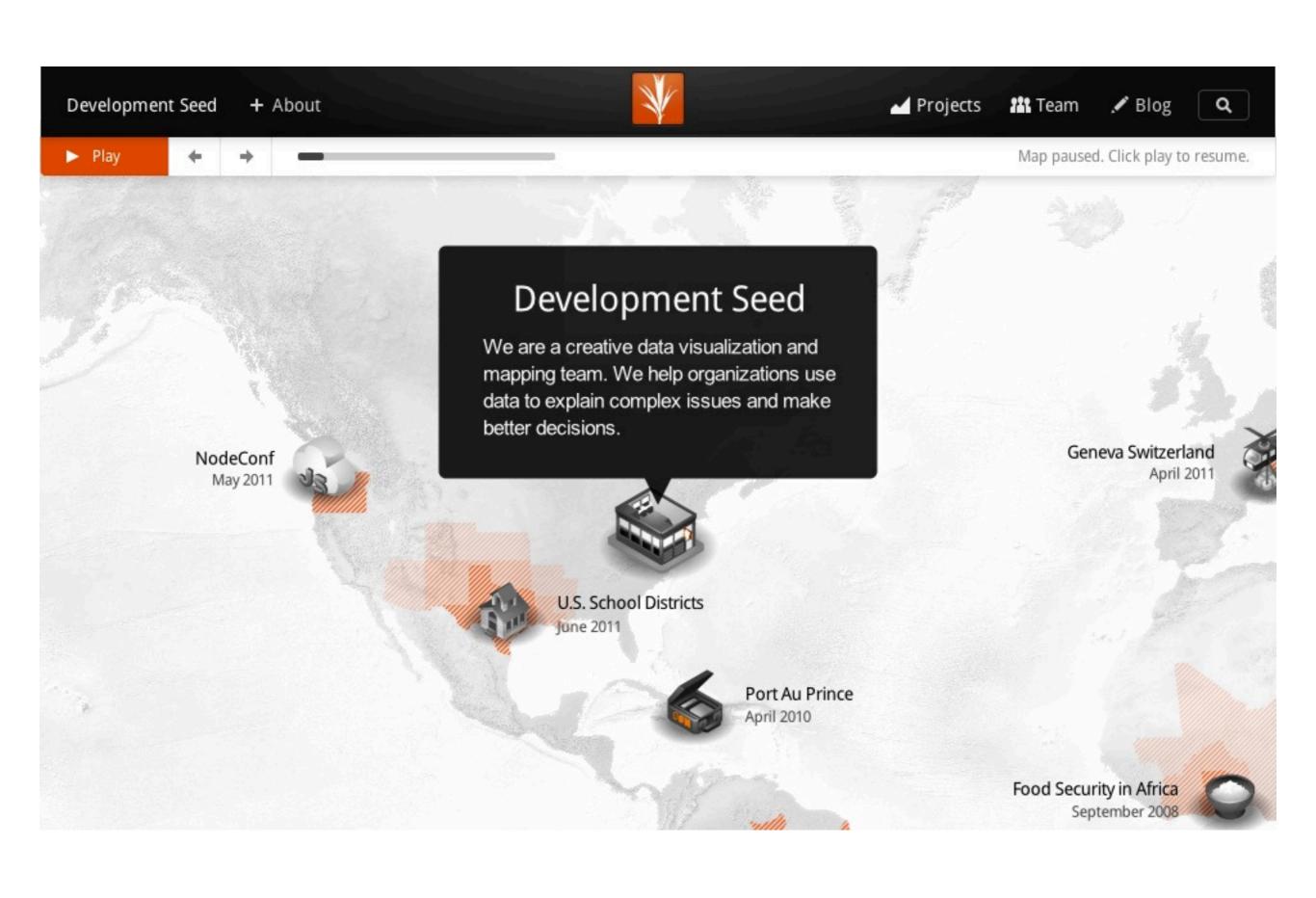
Microsites: <a href="http://data.awidercircle.org">http://data.awidercircle.org</a>

## MapBox - Open Source Tools

TileMill - Map design studio

TileStream - Ultra fast tile server

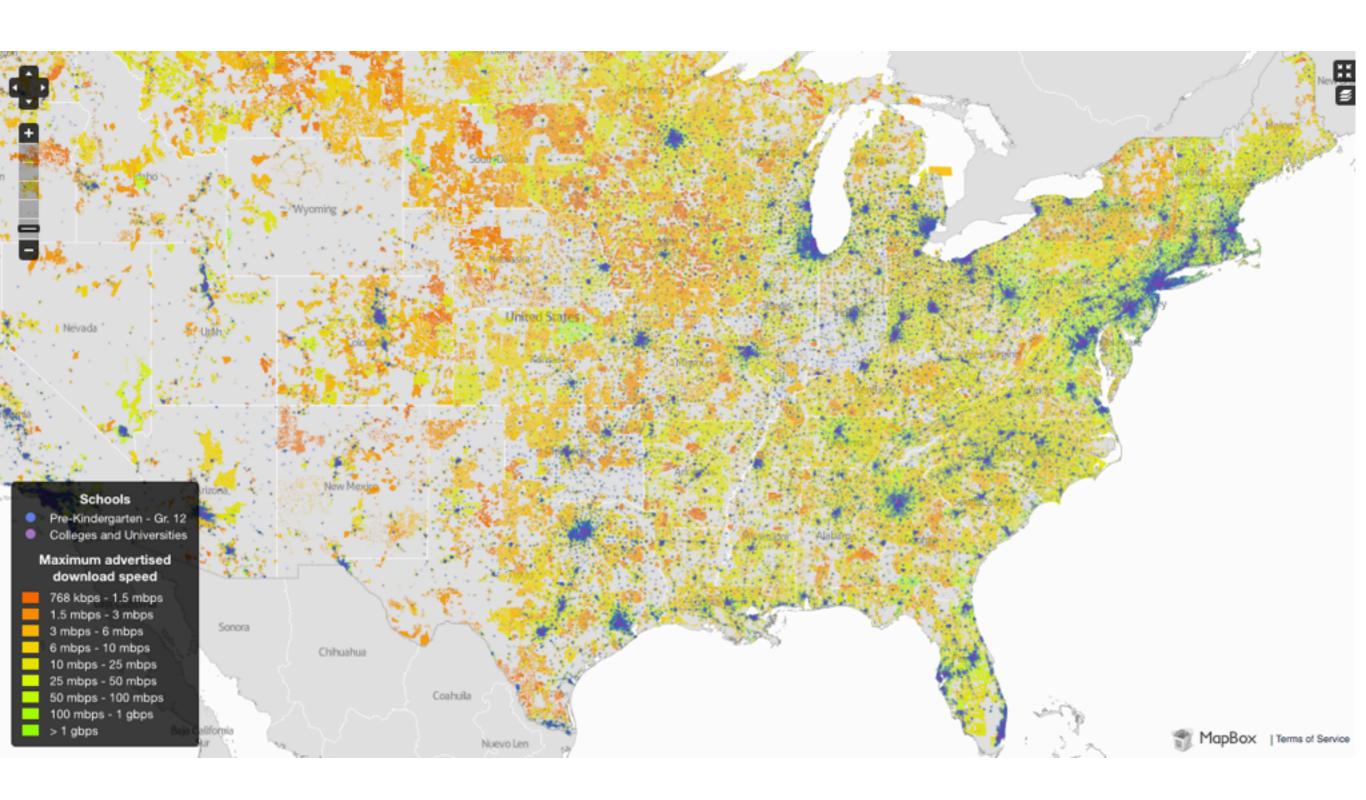
Mobile Apps for offline maps - iPad and MBTiles format



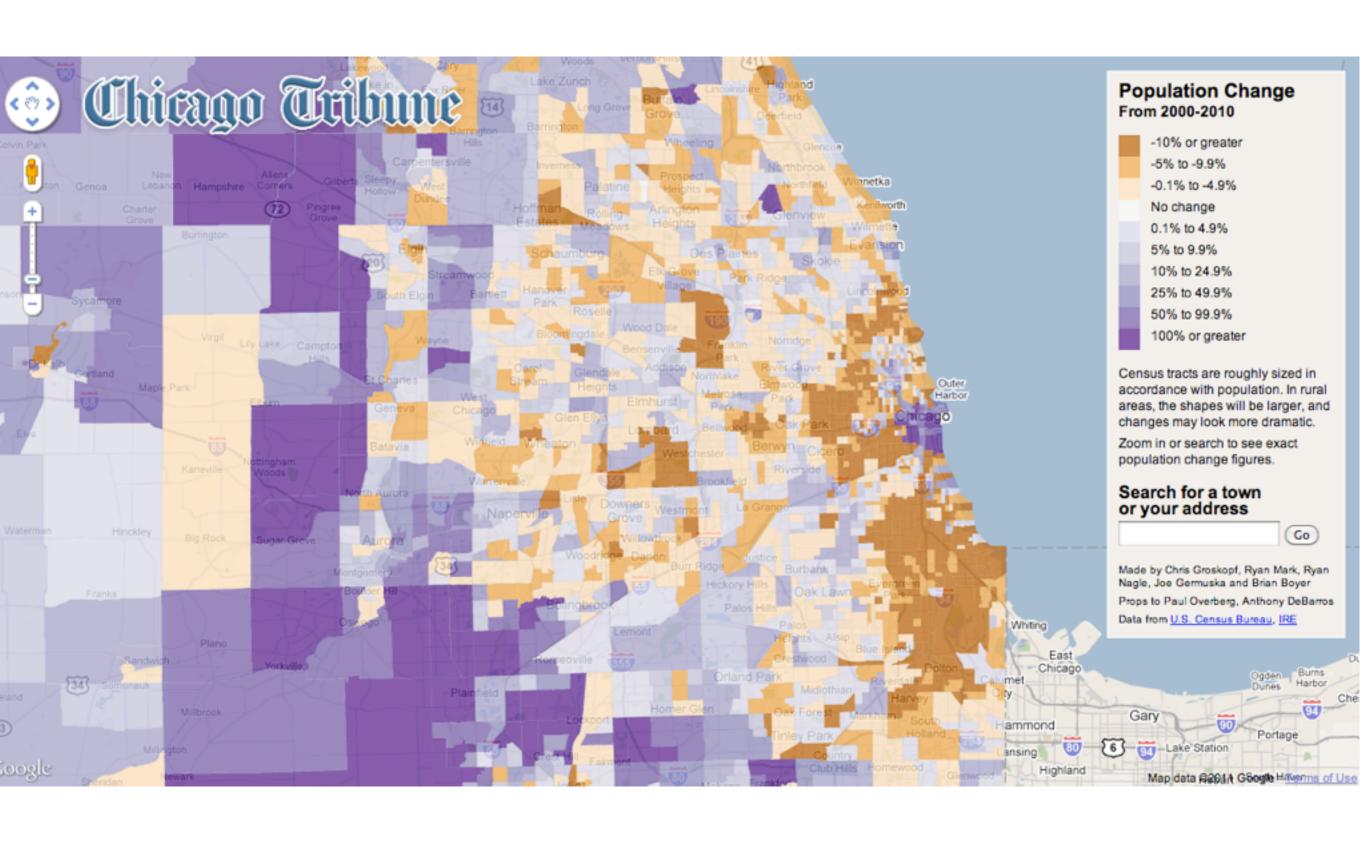


# mapping

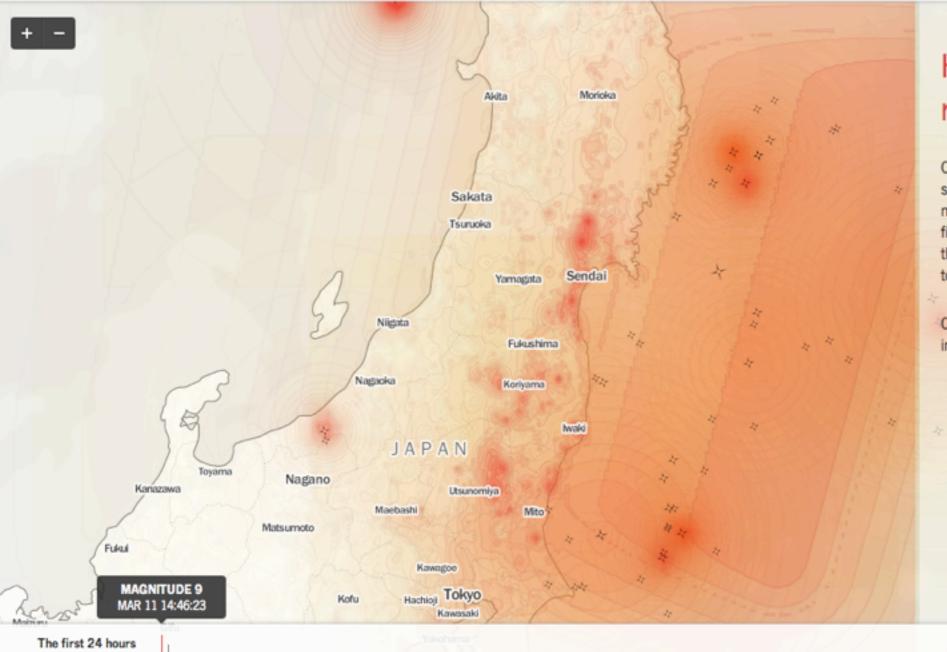
should be easy fun simple to start and rewarding warts later not first (projections, coordinates, kml) like good parts of web-dev google maps, but free and open integrate with free and open data like osm.org should be scalable, tunable by designers highly specific interaction for storytelling



http://maps.ed.gov/







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### Helping lead an effective response and recovery.

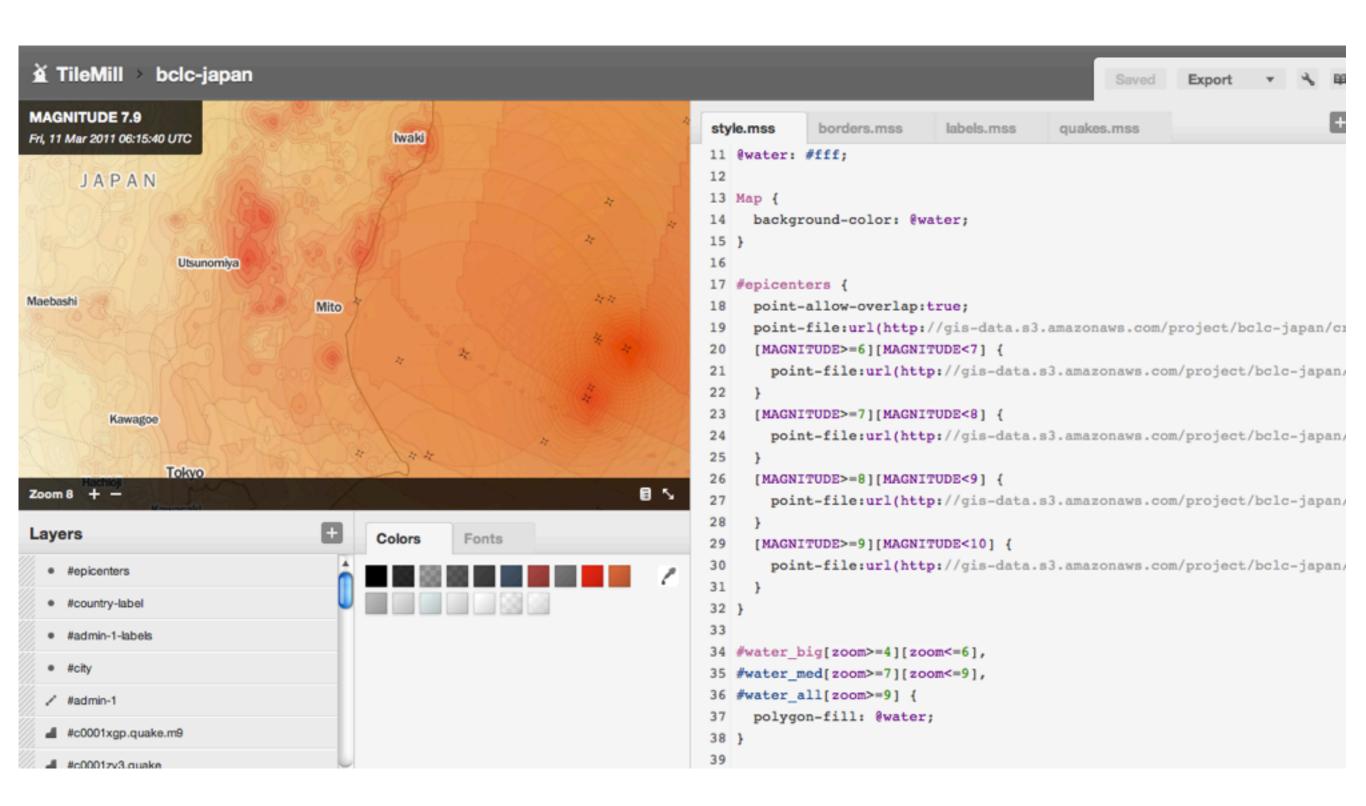
On March 11, Japan was struck by a 9.0 earthquake and subsequent tsunami with waves over 30 feet. This was the most powerful earthquake to ever hit Japan and one of the top five largest in the world ever recorded. The disaster left thousands dead and missing. Over 170,000 people continue to seek shelter in evacuation centers across 17 prefectures.

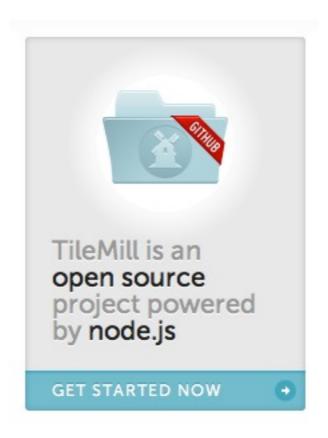
Companies have pledged more than \$300 million in cash and in-kind donations to the response efforts in Japan

**LEARN MORE »** 

Magnitude 5.0 & greater

Powered by open data from USGS & open source from TileMill.





## https://github.com/mapbox/tilemill





A design environment for making beautiful, and fast, maps

The design side of "GIS" done right

Browser web app

Runs on your desktop (for now)

- OSX/Linux
- Windows?

Javascript + Some C/C++ bits (NodeJS)

**BSD** Licensed

Early Development funded as part of Knight News Challenge.

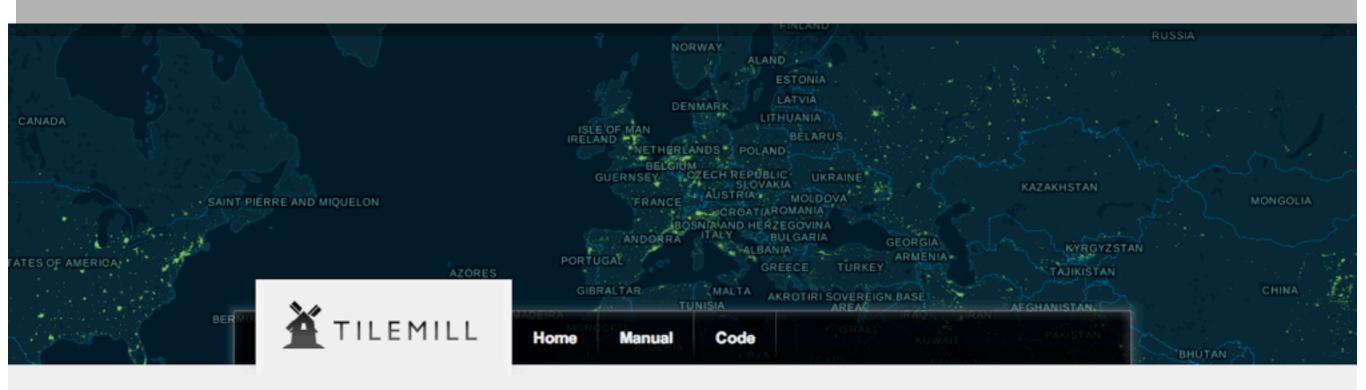


### Code Details

mapnik provides map rendering.
carto provides MSS-to-Mapnik XML map style compiling.
tilelive.js provides high-speed tile-rendering.
node.js provides evented server-side javascript.
express provides a robust HTTP web server.
backbone provides a client-server MVC framework.
modestmaps provides a tile-based map UI.
codemirror provides in-browser code editing

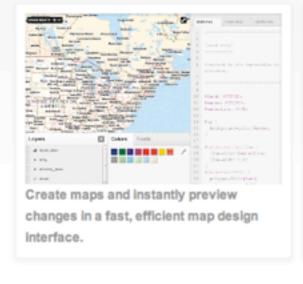


### tilemill.com

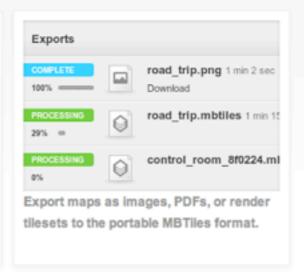


TileMill is a modern map design studio powered by open source technology.





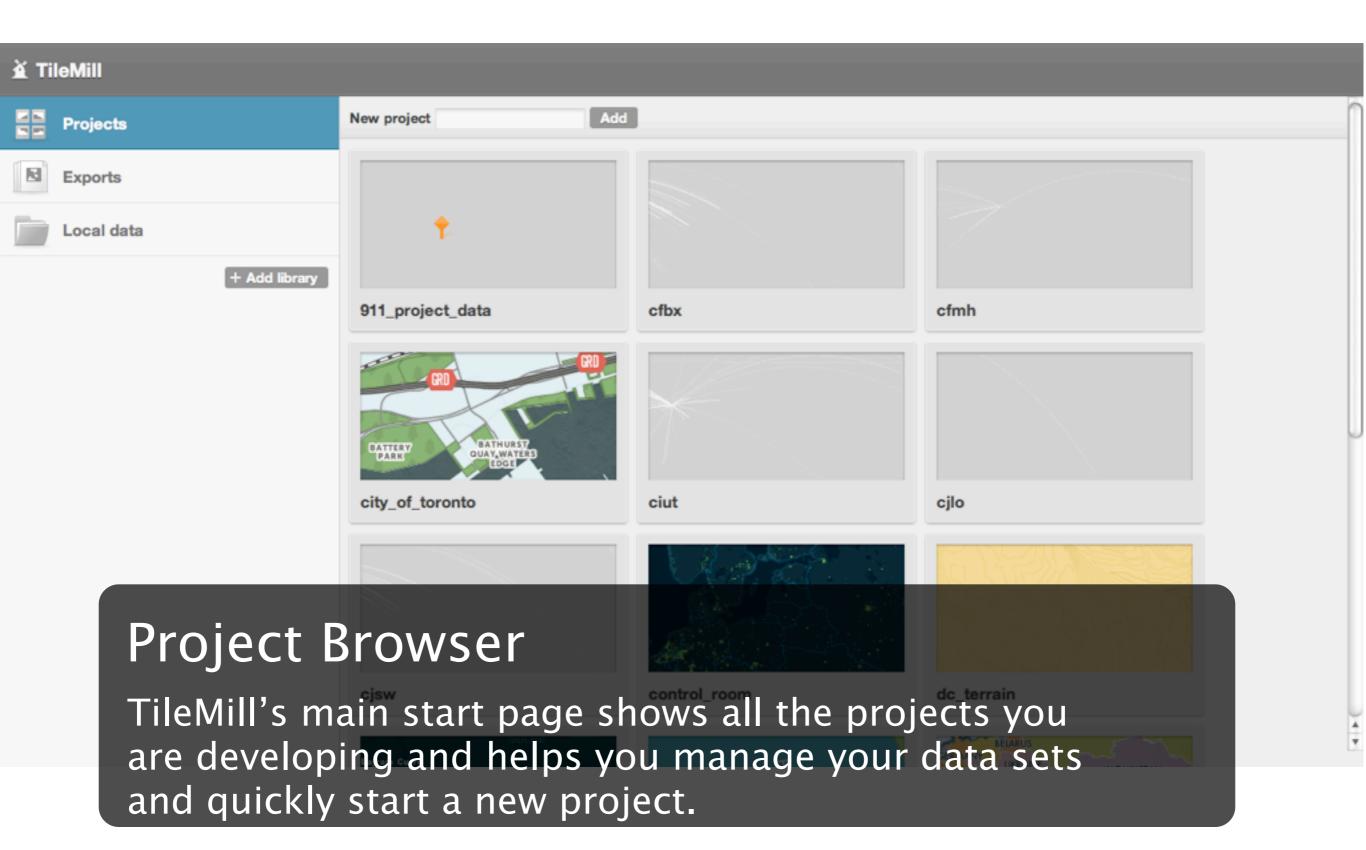


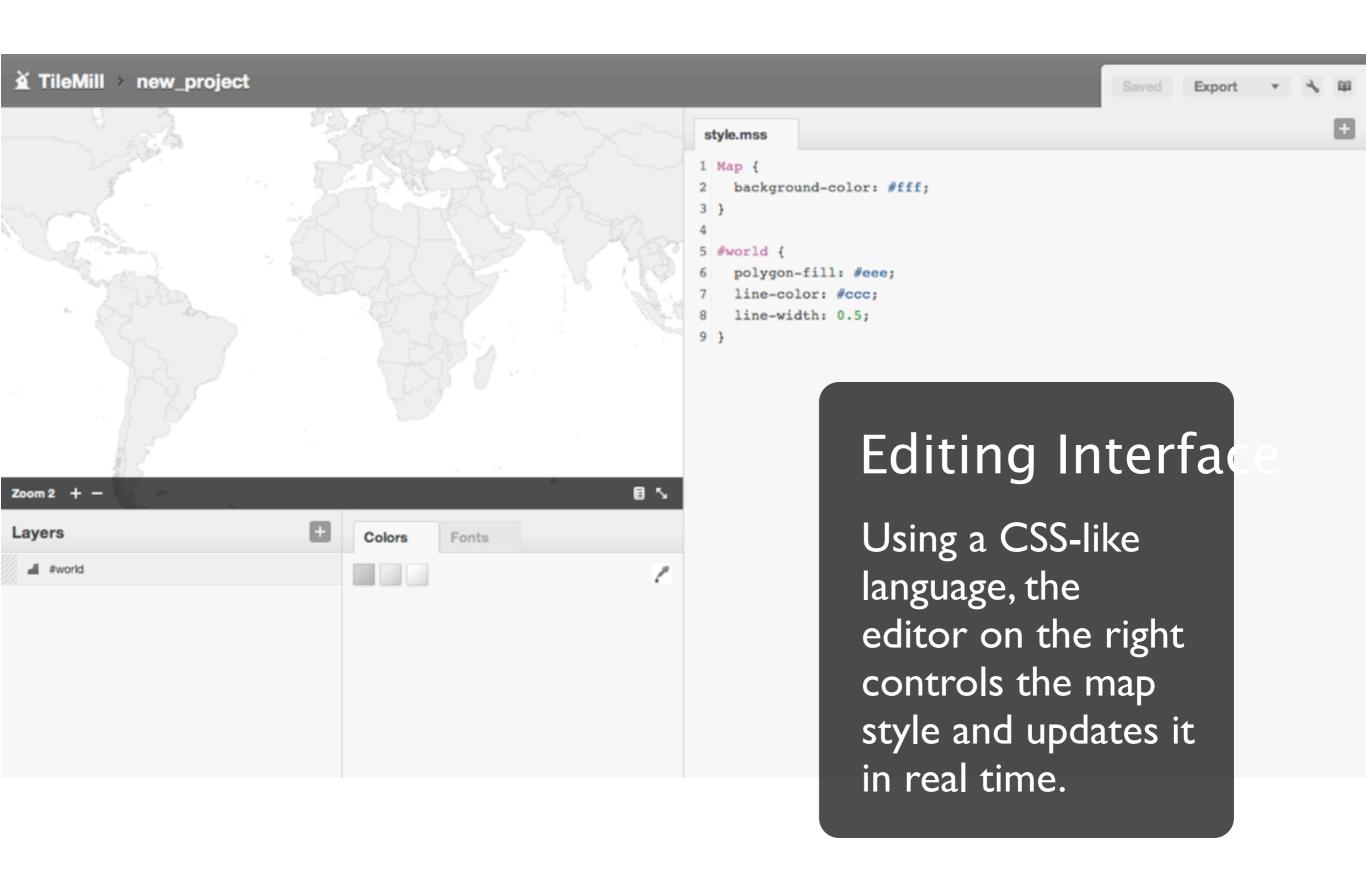


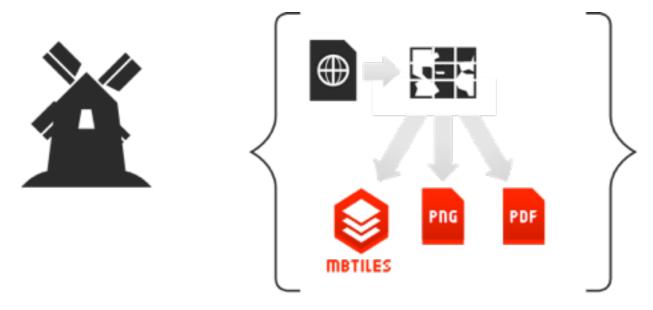
Download latest release TileMill 0.3.3

#### **Features**

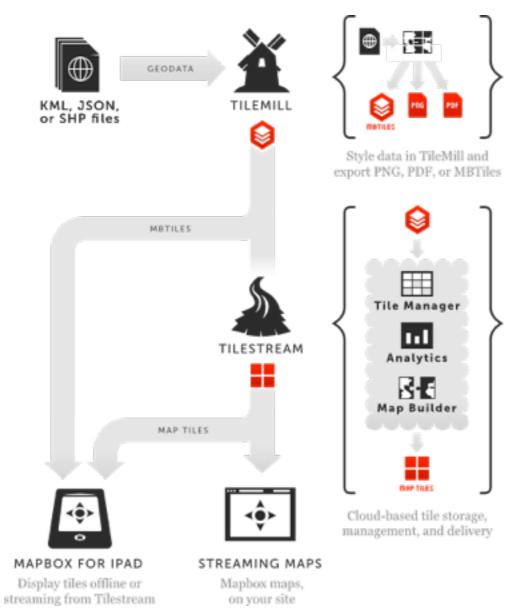
- Access datasources on the local filesystem or through Amazon S3
- Manage map layers with file-based datasources (shapefiles, rasters)
- · Edit carto stylesheets directly in the browser
- Watch a demo video. This is the local part of the constant of the Plant in Minimal and I







Style data in TileMill and export PNG, PDF, or MBTiles



### Links

TileMill <a href="mailto:tilemill.com">tilemill.com</a>
<a href="mailto:github.com/mapbox/tilemill">github.com/mapbox/tilemill</a>

Documentation <a href="mailto:support.mapbox.com/kb">support.mapbox.com/kb</a>

Wax

http://mapbox.github.com/wax/manual/index.html github.com/mapbox/wax

MBTile Spec <a href="http://mbtiles.org/">http://mbtiles.org/</a>

## Actual Demo...

