

Create your own terrain maps

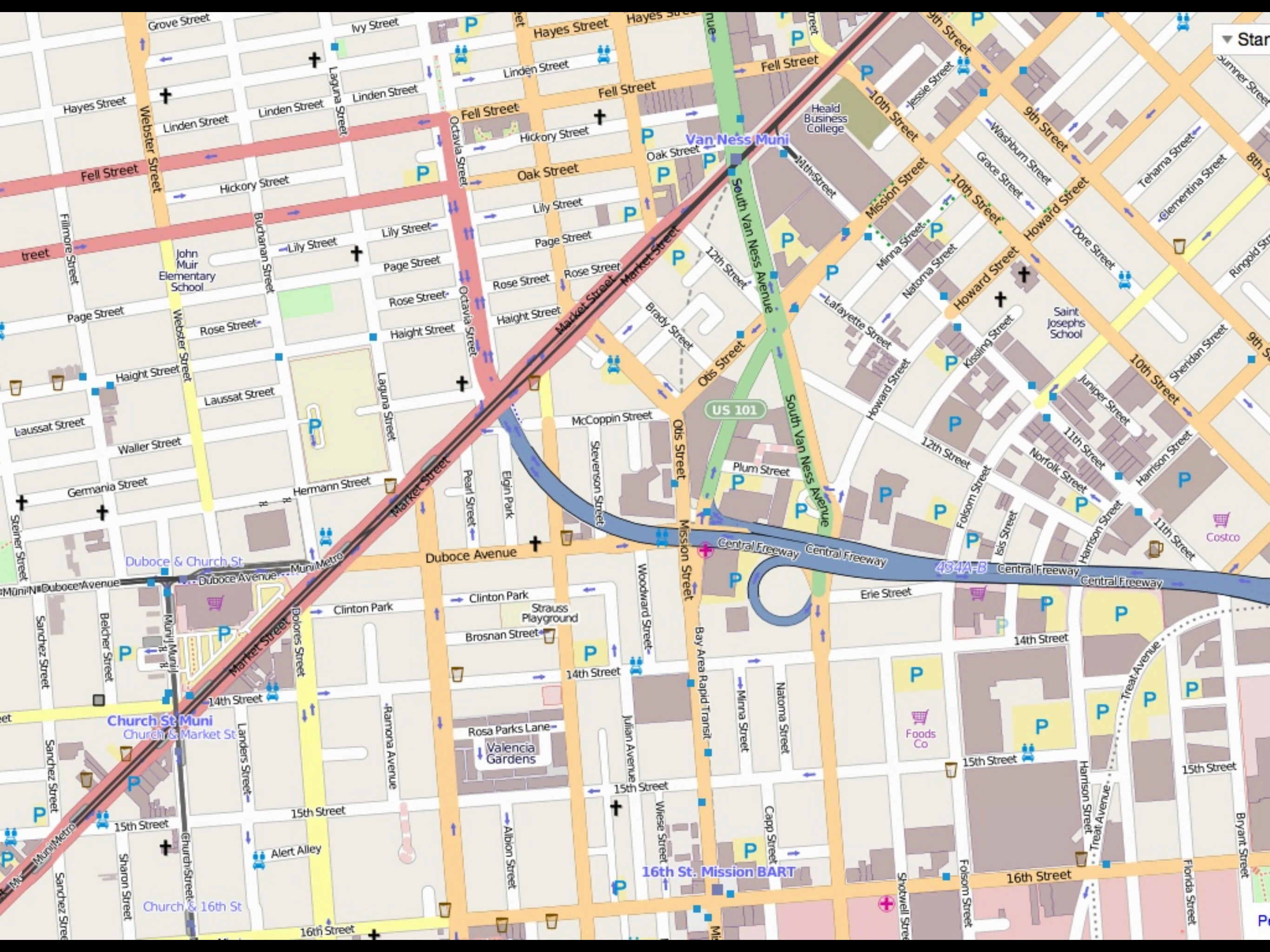
Nathaniel Vaughn KELSO
& Michal MIGURSKI

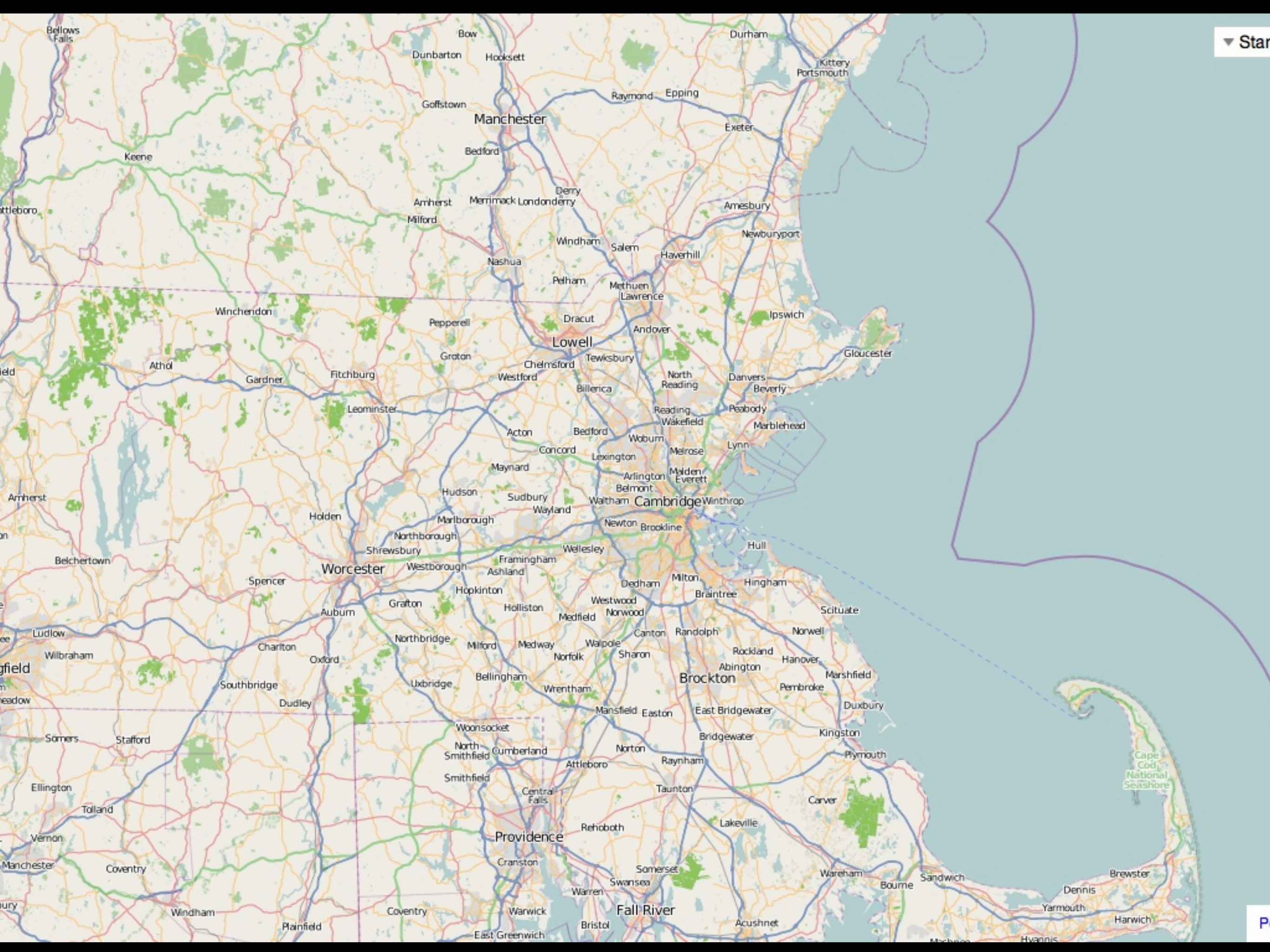
Stamen Design

8th Mountain Cartography Workshop — NZ edition



+ var map =





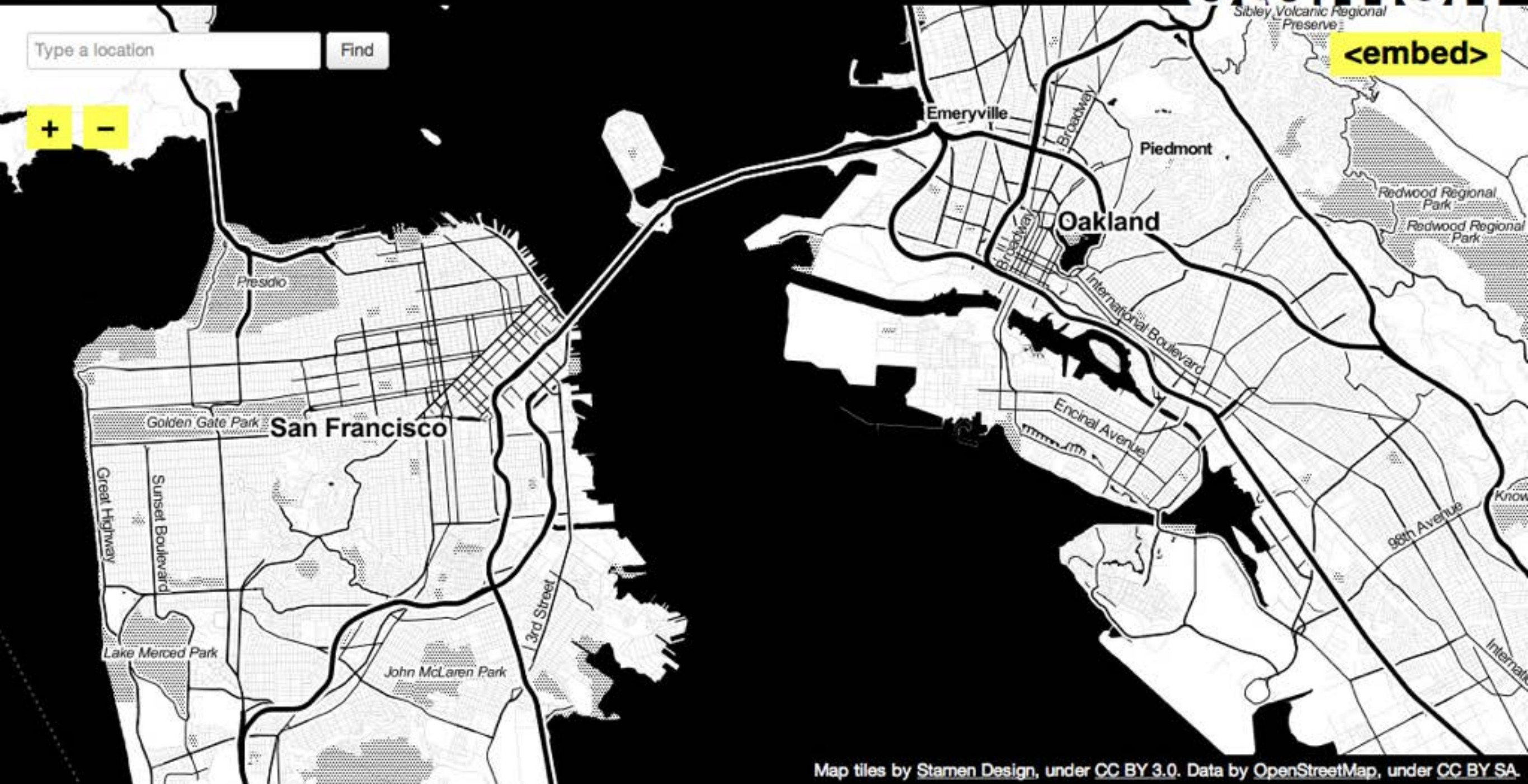
Type a location

Find

+

-

<embed>



maps.stamen.com / **watercolor**

 [report a bug](#)

stamen

Type a location

Find

<embed>

+

-

Map tiles by [Stamen Design](#), under [CC BY 3.0](#). Data by [OpenStreetMap](#), under [CC BY SA](#).

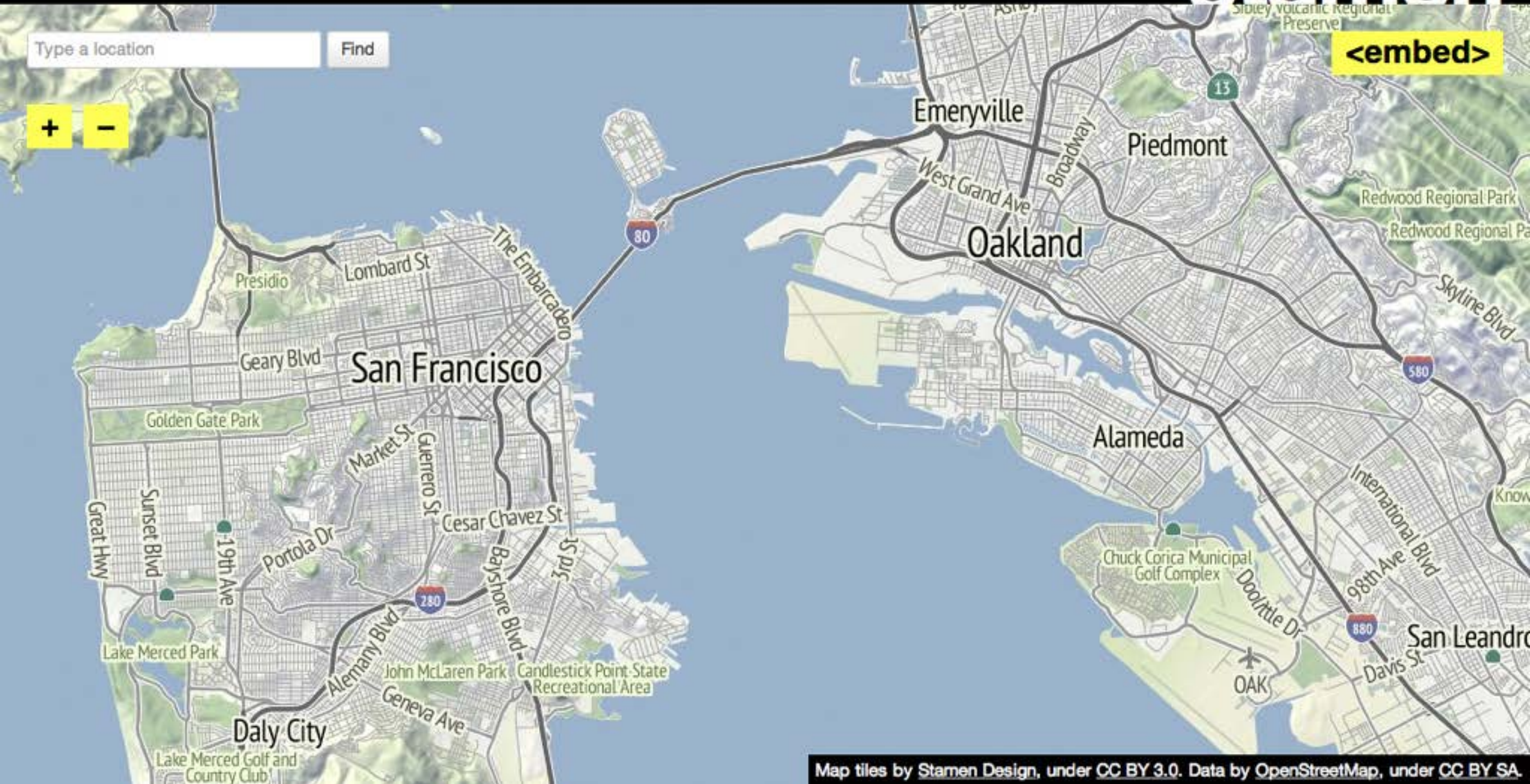
Type a location

Find

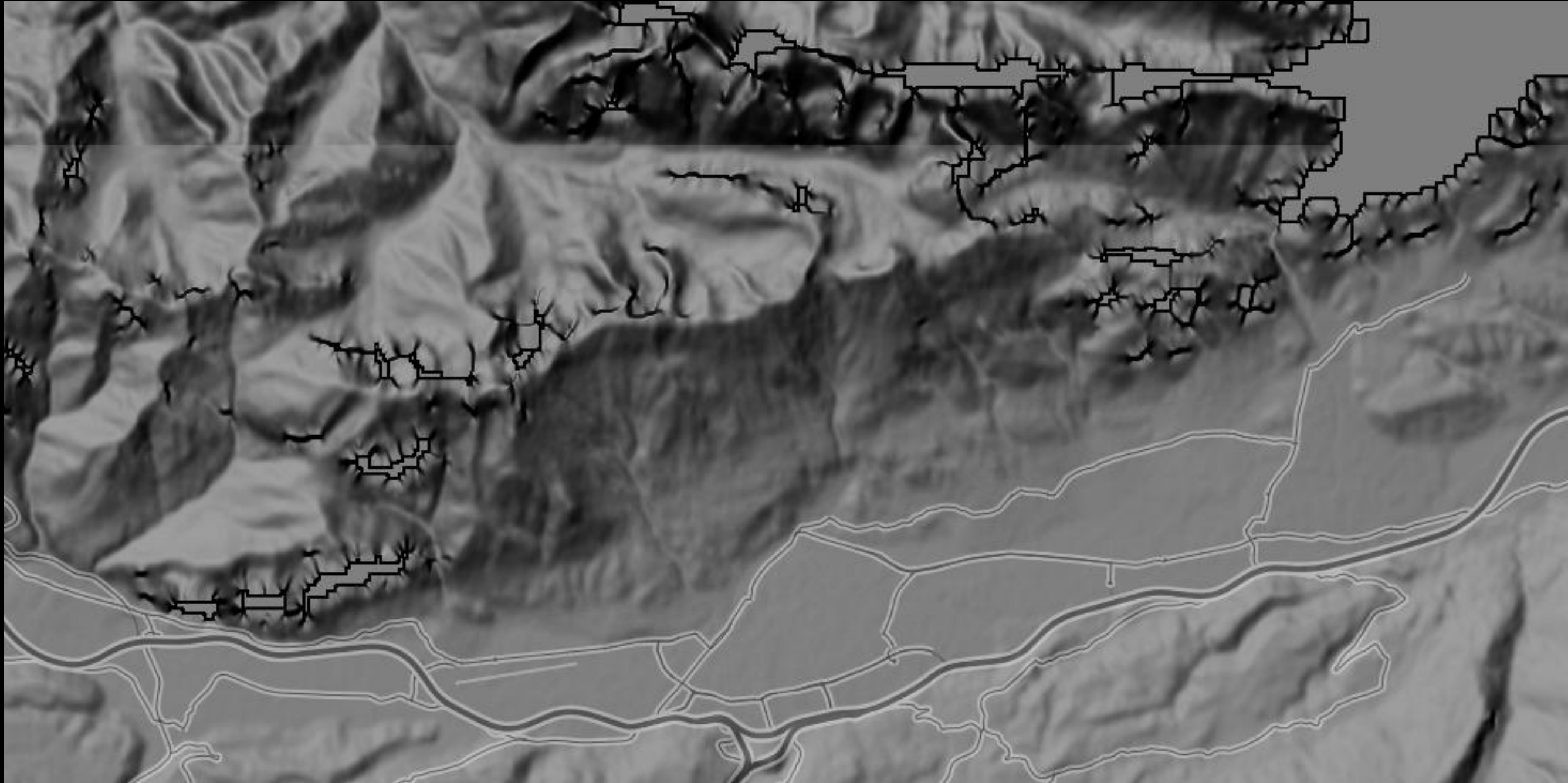
+

-

<embed>

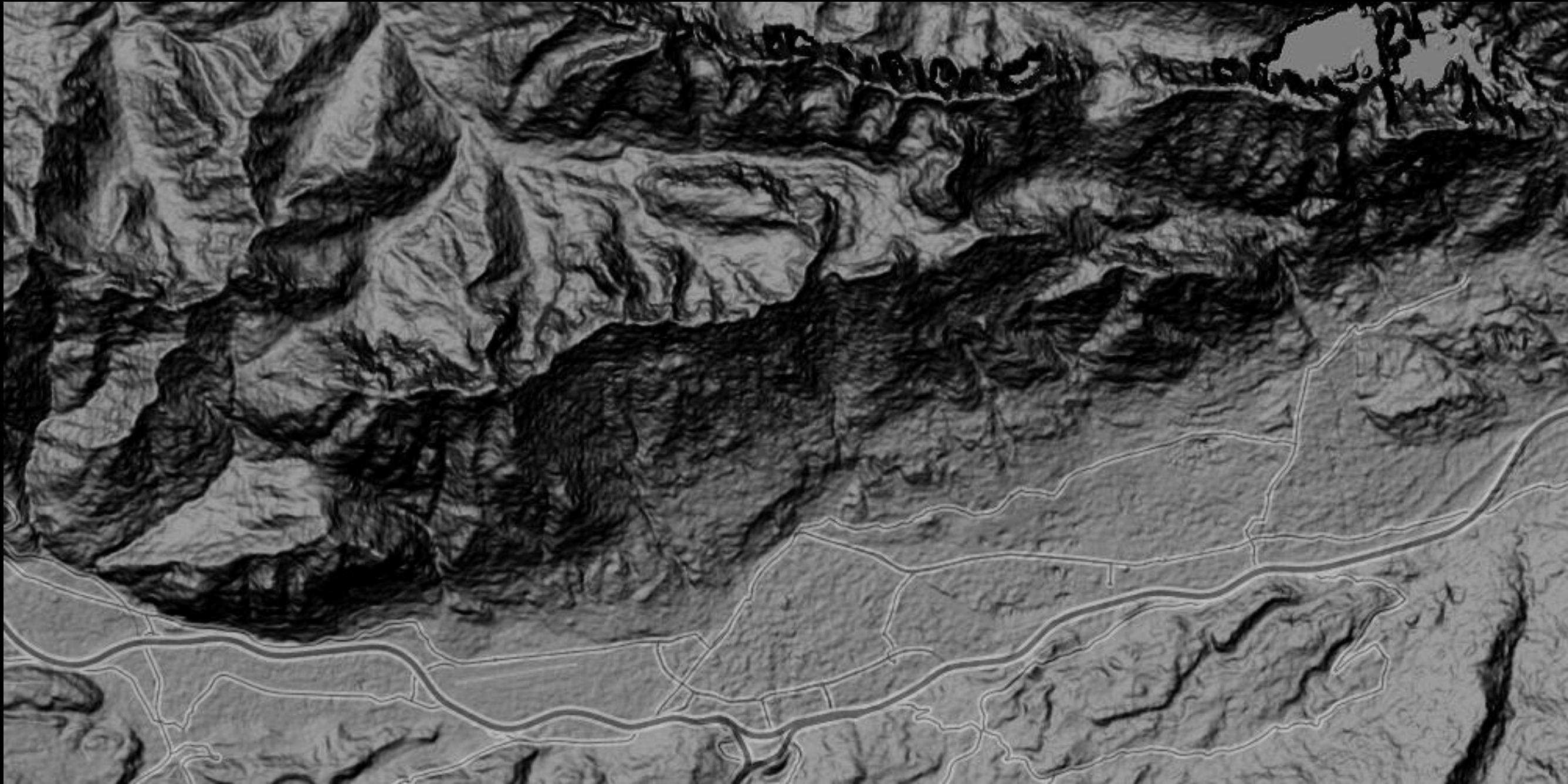


SRTM



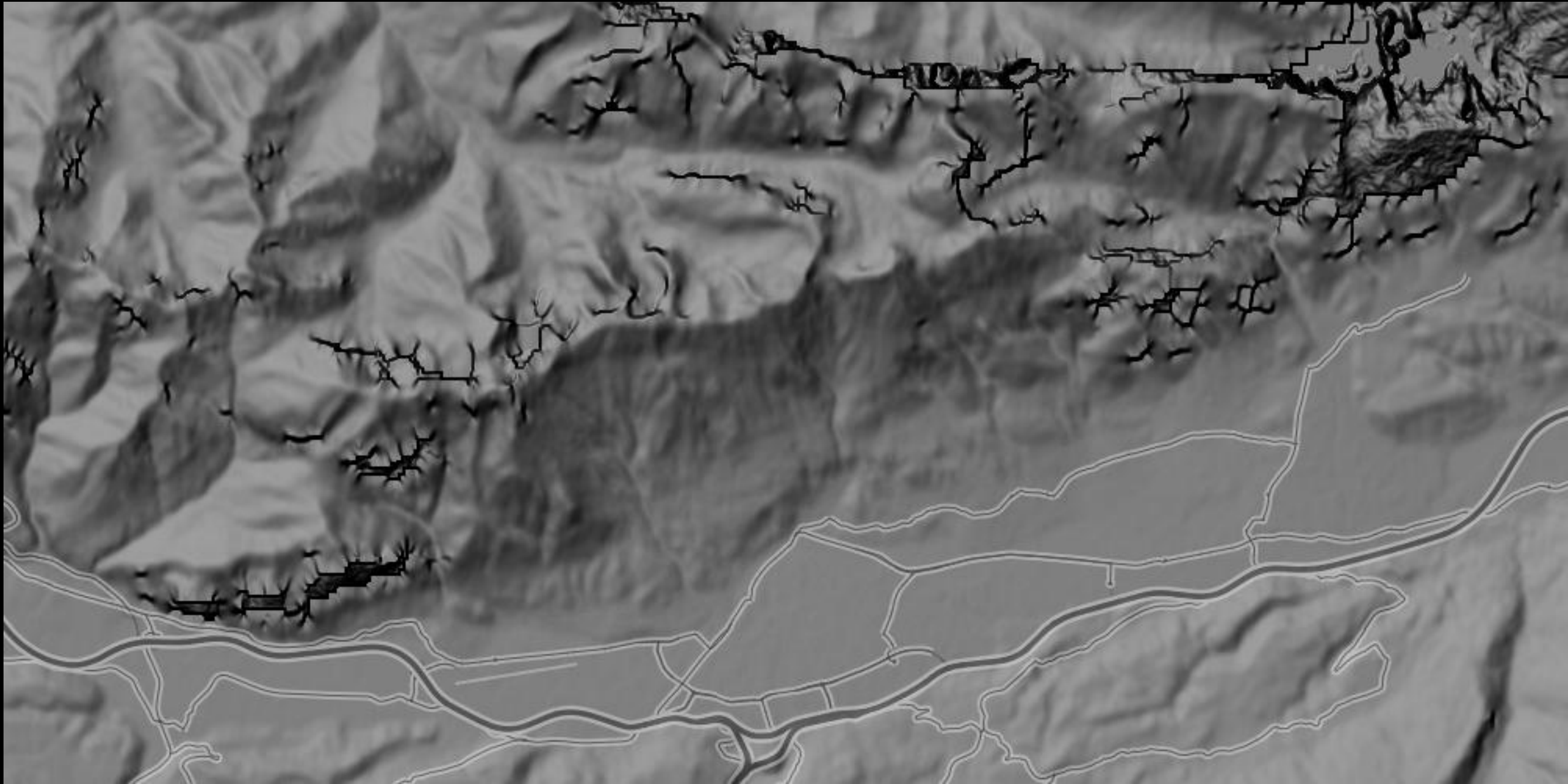
(note voids)

ASTER



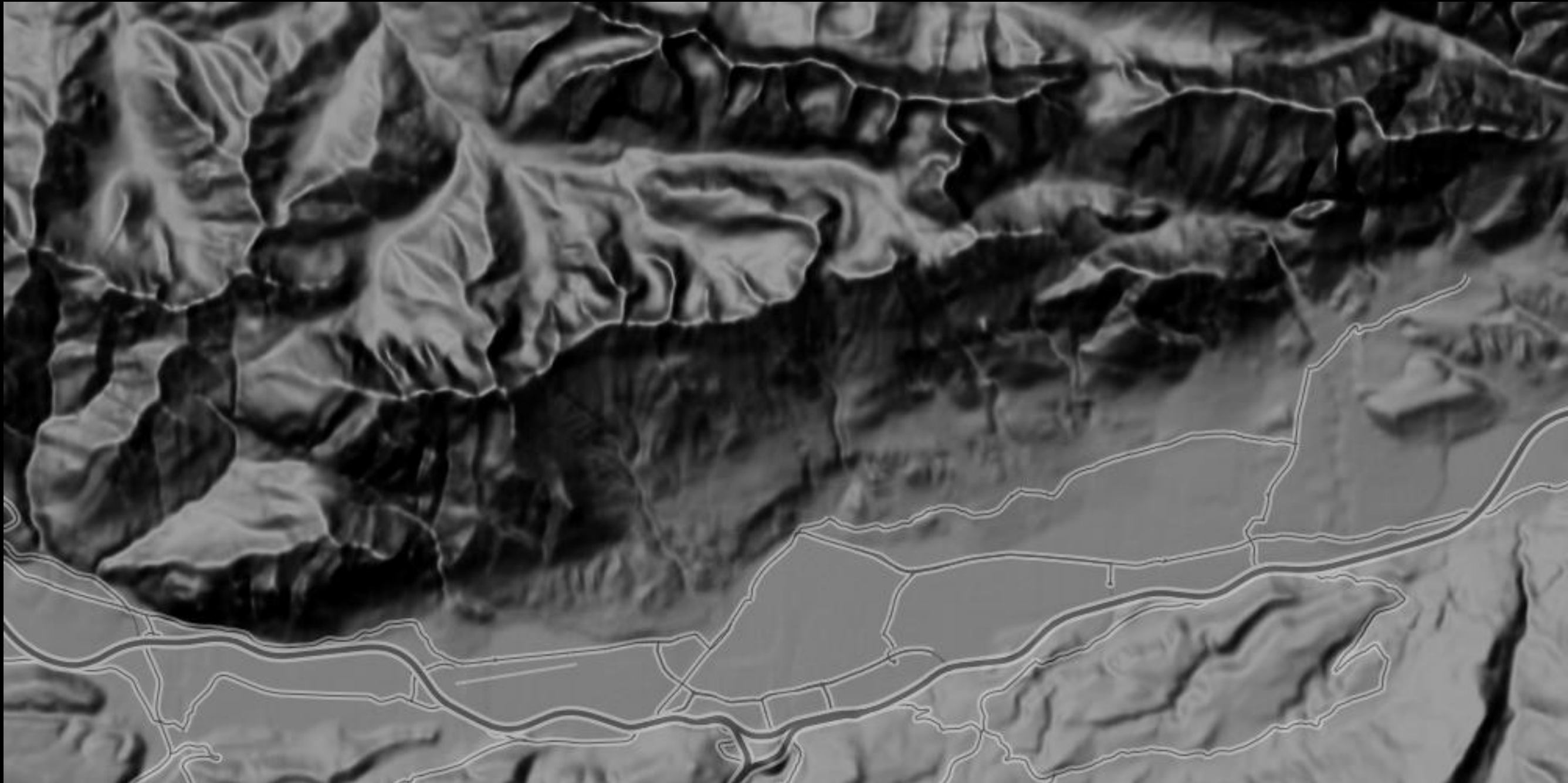
(quite noisy)

SRTM filled with ASTER



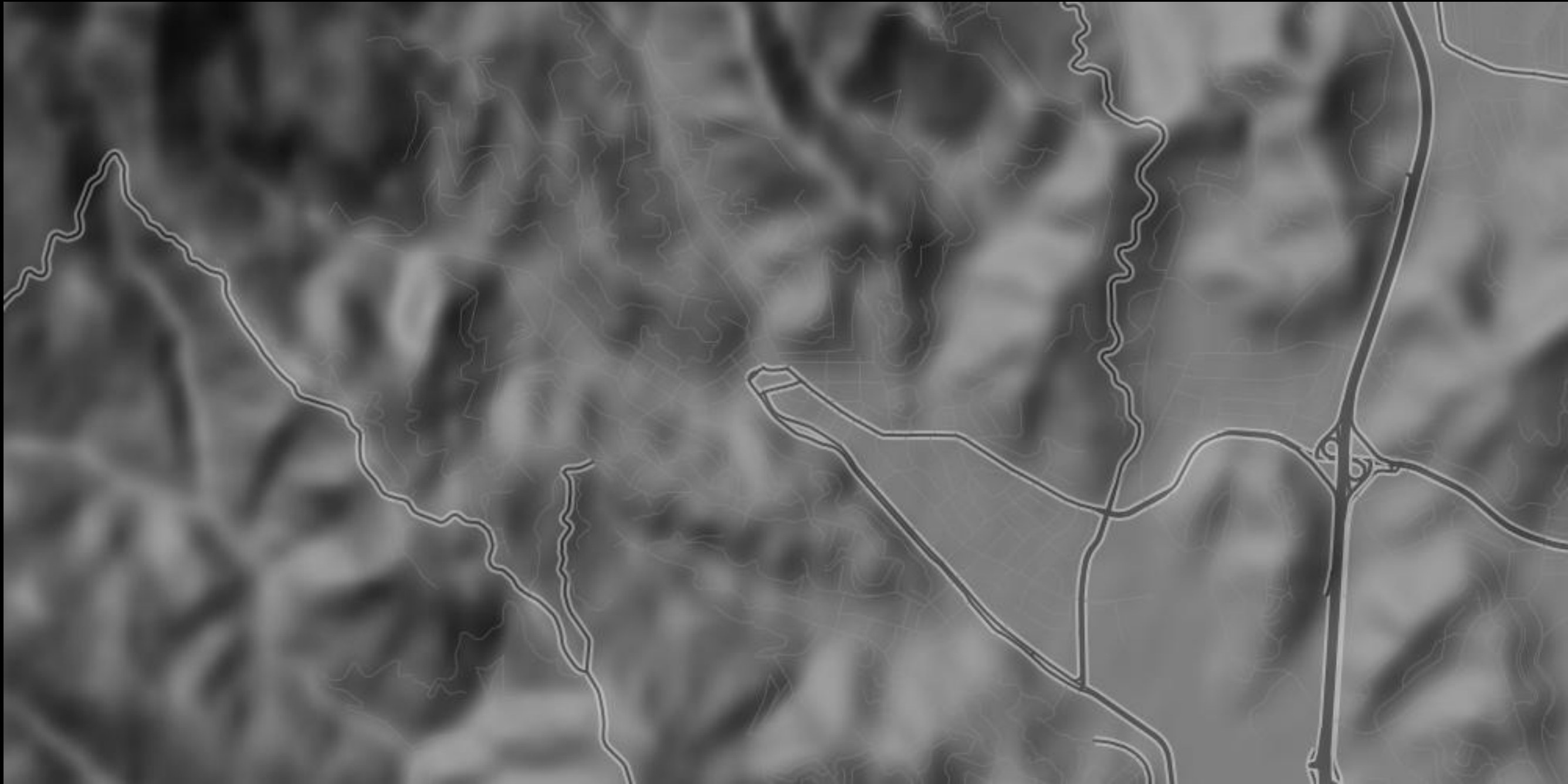
(funky seams)

ViewFinder USSR patches



(meters versus feet?)

Mill Valley, California SRTM



Mill Valley, California

USGS 10m, good for zooms 12+



github

Search...

Explore Gist Blog Help

nvkelso



PUBLIC



migurski / DEM-Tools

Watch

★ Unstar

23

Fork

6

Code

Network

Pull Requests 1

Issues 2

Wiki

Graphs

Tools For DEMs — [Read more](#)

Clone in Mac

ZIP

HTTP

Git Read-Only

git://github.com/migurski/DEM-Tools.git

Read-Only access

branch: master

Files

Commits

Branches 1

Tags

Downloads

Latest commit to the master branch

Bumped to 0.5.2 with correct file handle closures

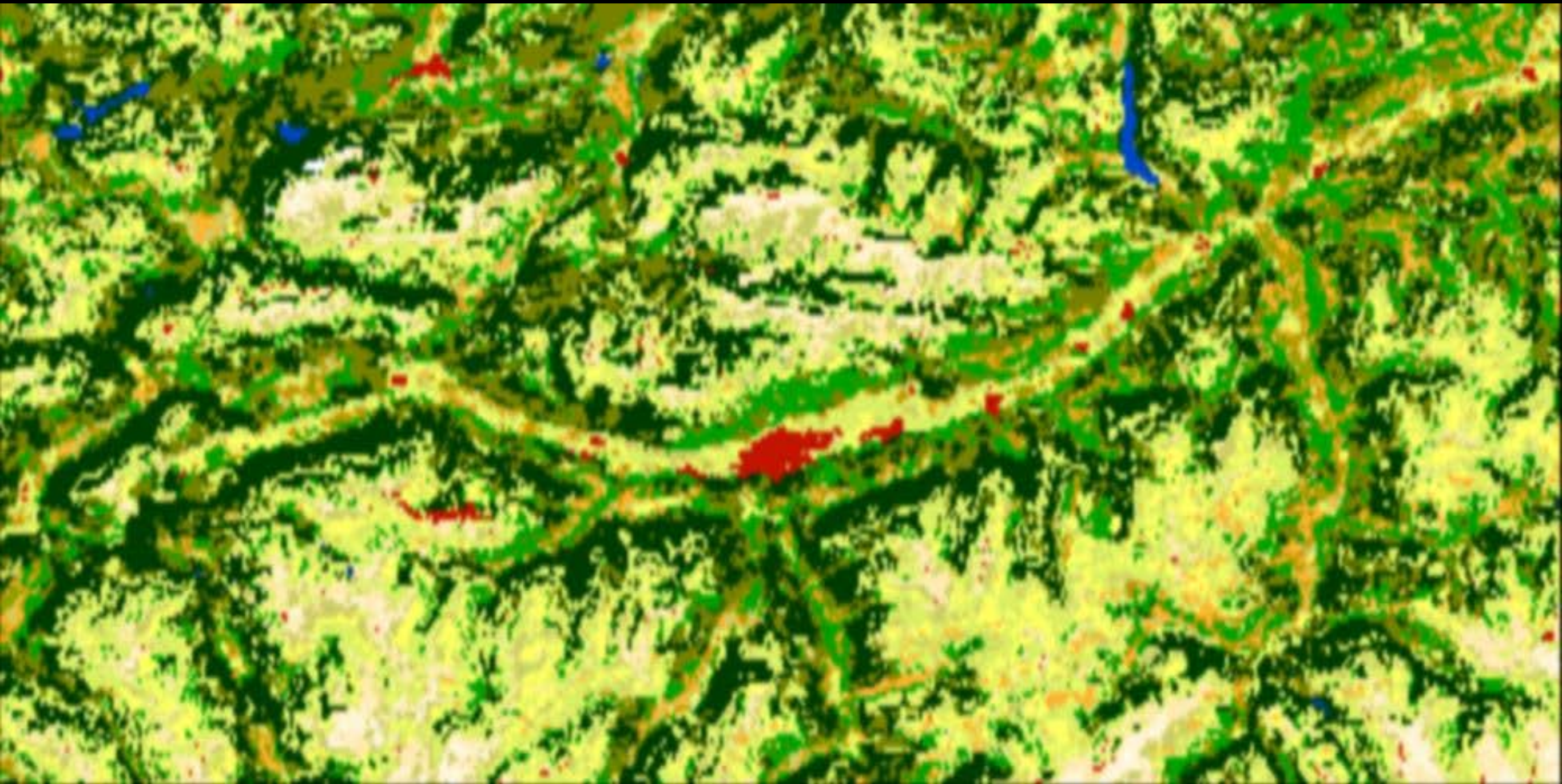
migurski authored 20 days ago

commit 6aac554303

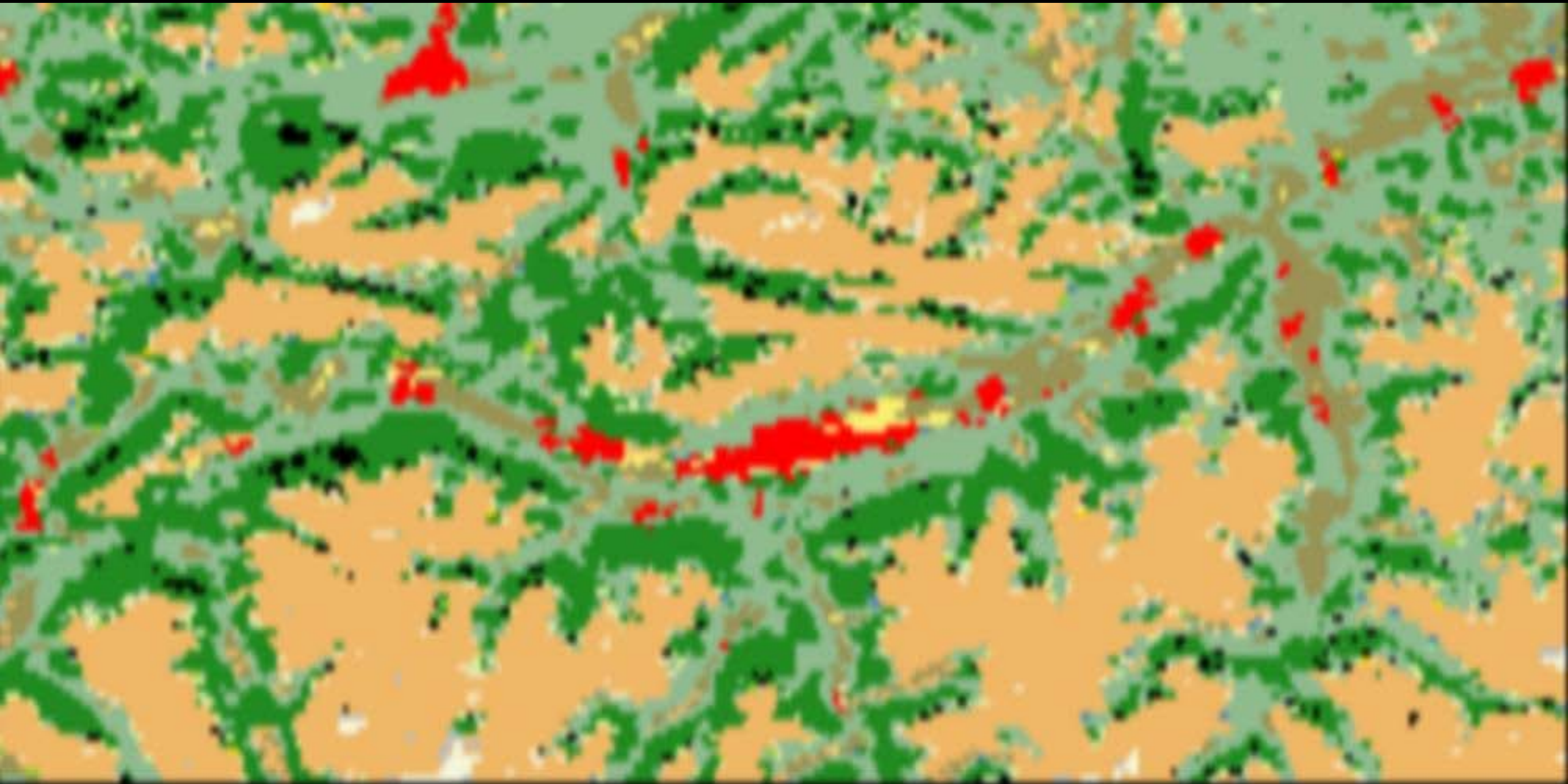
DEM-Tools /

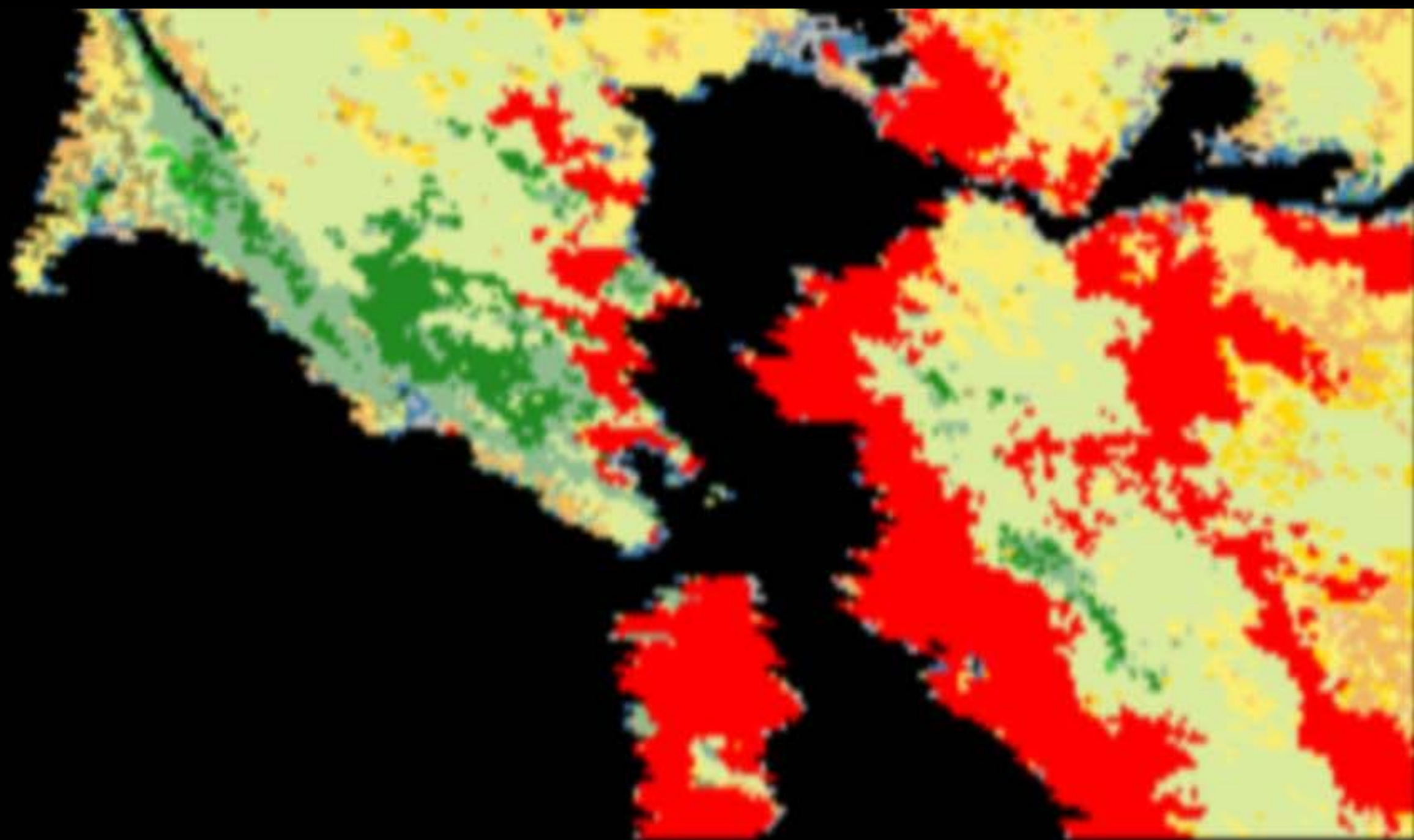
name	age	message	history
Hillup	20 days ago	Bumped to 0.5.2 with correct file handle closures [migurski]	
render	9 months ago	Inverted to black land / white water and added reservoirs [Michal Migurski]	
LICENSE	11 months ago	Updated README, added LICENSE, bumped version to 0.1.0 [Michal Migurski]	
README.md	11 months ago	Tweaked README [Michal Migurski]	
VERSION	20 days ago	Bumped to 0.5.2 with correct file handle closures [migurski]	
hillup-seed.py	21 days ago	Made new Worldwide provider the default [migurski]	
setup.py	11 months ago	Fixed setup.py bug [Michal Migurski]	

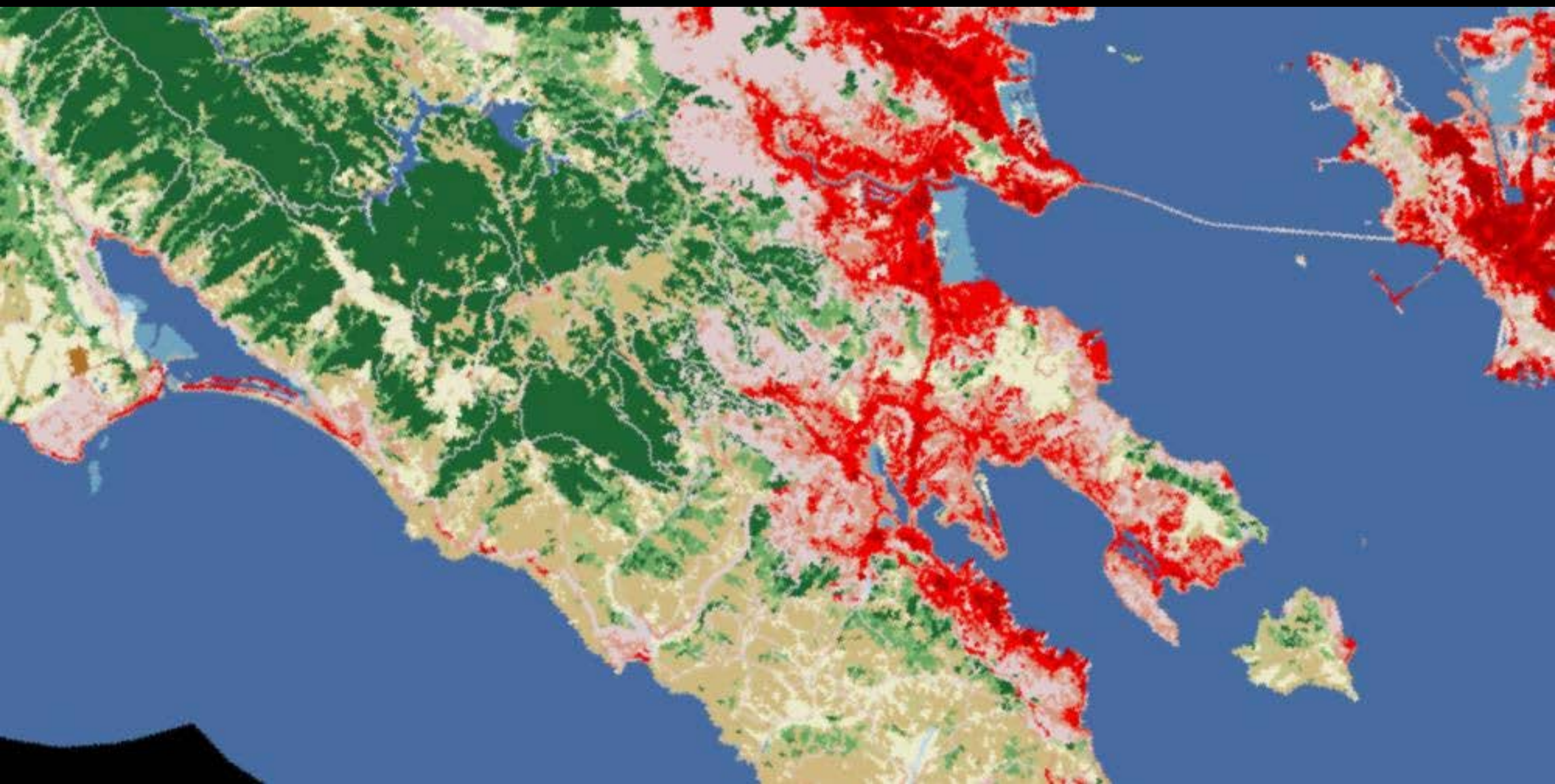
GLOBCOVER, 2009



Boston University's MODIS, 2012







github

Search...



Explore Gist Blog Help



nvkelso



PUBLIC



migurski / TileStache

Watch

★ Unstar

186

Fork

55

Code

Network

Pull Requests 0

Issues 25

Graphs

A stylish alternative for caching your map tiles. — [Read more](#)<http://tilestache.org>

Clone in Mac



ZIP

HTTP

Git Read-Only

<git://github.com/migurski/TileStache.git>

Read-Only access



branch: master

Files

Commits

Branches 22

Tags

Downloads 40

Latest commit to the **master** branchBumped to 1.39.0 with addition of TileStache.Goodies.ExternalConfigSe... [...](#)

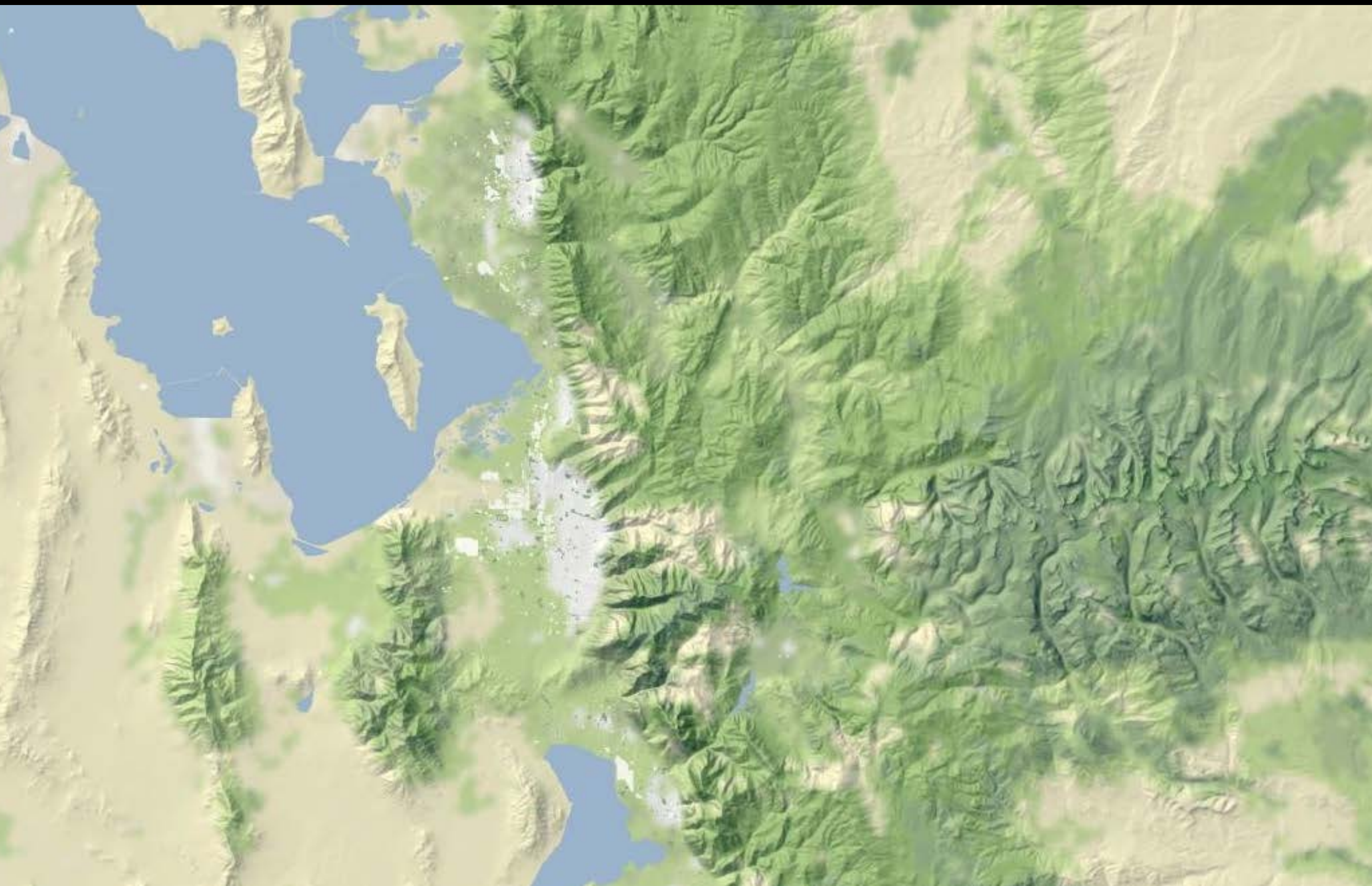
Michal Migurski authored 2 months ago



commit 84b26f5a1d

TileStache /

name	age	message	history
TileStache	2 months ago	Using built-in set instead of deprecated sets.Set [Michal Migurski]	
examples	4 months ago	Correction to example config for Composite provider [cyberttoast]	
man	3 months ago	Added --jsonp-callback option to tilestache-seed.py [Michal Migurski]	
scripts	3 months ago	Added --jsonp-callback option to tilestache-seed.py [Michal Migurski]	
www	2 months ago	Bumped to 1.39.0 with addition of TileStache.Goodies.ExternalConfigSe... [Michal Migurski]	
.gitignore	a year ago	Added a few more ignores [Michal Migurski]	
API.html	2 months ago	Changed Mapnik Grid "layer_id_key" parameter to "layer id key" and up... [Michal Migurski]	







pure



jpeg 95



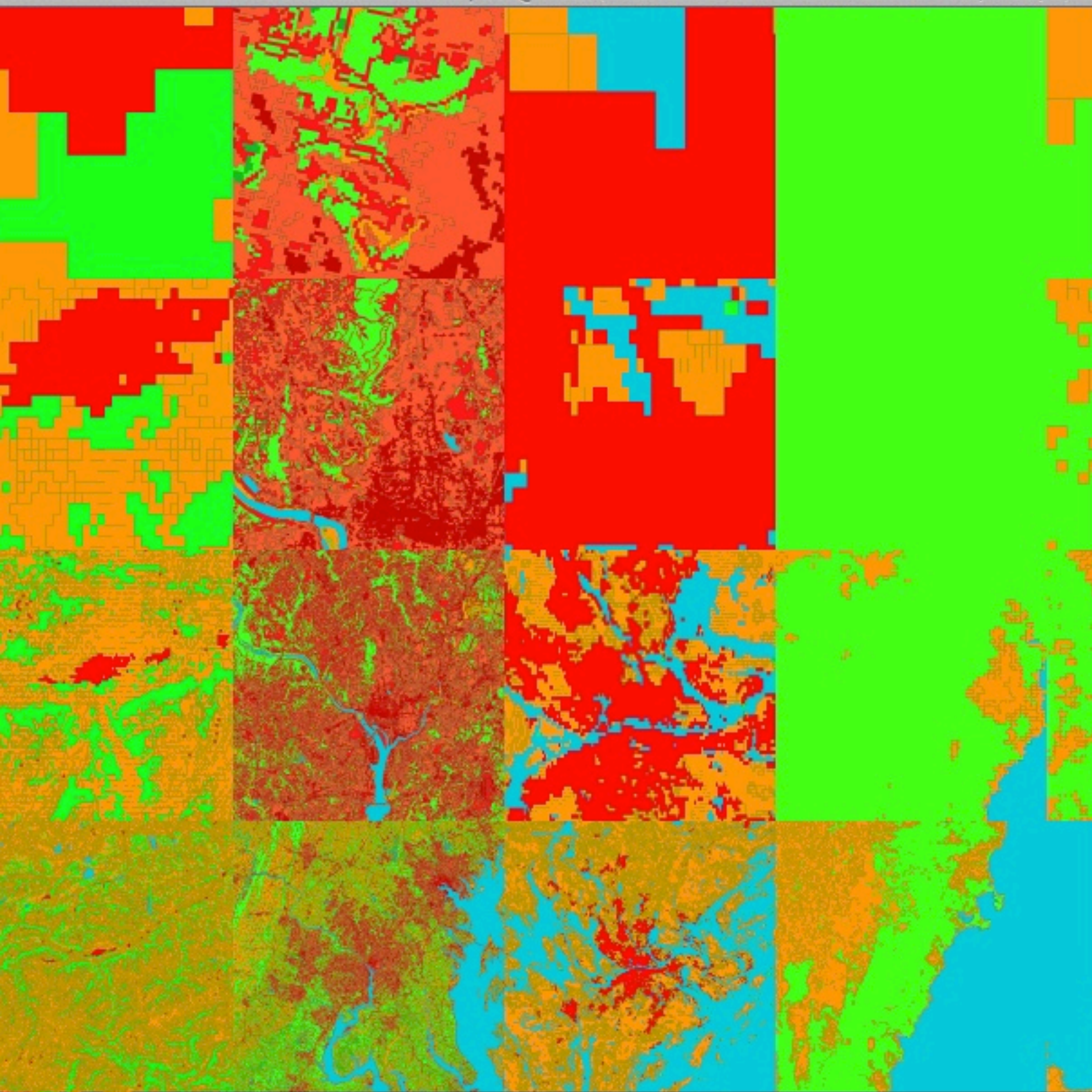
jpeg 90



jpeg 85



Landcover Masks.psd @ 25% (NLCD 2006 41 Deciduous Forest, RGB/8)



1/152.8M

LAYERS **CHANNELS** **PATHS**

Linear Dodge (Add) Opacity: 100%

Lock: ☐ ☐ ☐ ☐ Fill: 100%

☐ ☐ Curves

☐ ☐ Elevation

☐ ☐ NLCD water fill-in

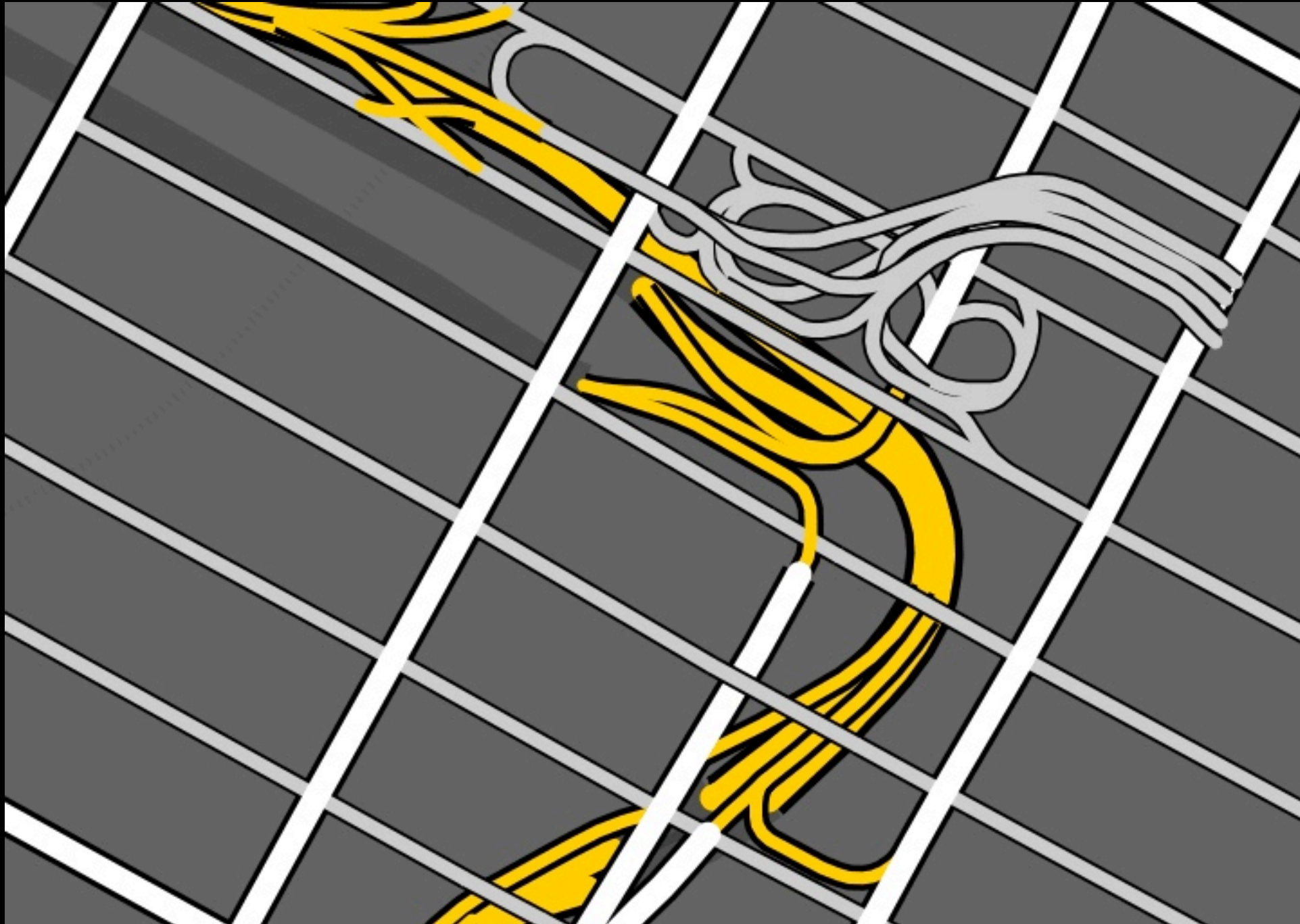
☐ ☐ Landcover (nearest)

- ☐ ☐ NLCD 2006 95 Emergent Herbaceous Wetlands
- ☐ ☐ NLCD 2006 90 Woody Wetlands
- ☐ ☐ NLCD 2006 82 Cultivated crops
- ☐ ☐ NLCD 2006 81 Pasture or Hay
- ☐ ☐ NLCD 2006 71 Grassland or Herbaceous
- ☐ ☐ NLCD 2006 52 Scrub or scrub
- ☐ ☐ NLCD 2006 43 Mixed Forest
- ☐ ☐ NLCD 2006 42 Evergreen Forest
- ☒ ☐ **NLCD 2006 41 Deciduous Forest**
- ☐ ☐ NLCD 2006 31 Barren Land (Rock or Sand or Clay)
- ☐ ☐ NLCD 2006 24 Developed, High Intensity
- ☐ ☐ NLCD 2006 23 Developed, Medium Intensity
- ☐ ☐ NLCD 2006 22 Developed, Low Intensity
- ☐ ☐ NLCD 2006 21 Developed, Open Space
- ☐ ☐ NLCD 2006 11 Open
- ☐ ☐ GLOBCOVER 2009 220 Permanent snow and ice
- ☐ ☐ GLOBCOVER 2009 210 Water bodies





High Road



github

Search...

[Explore](#) [Gist](#) [Blog](#) [Help](#)

nvkelso



PUBLIC



migurski / HighRoad

[Watch](#)[★ Unstar](#)

48

[Fork](#)

6

Code

Network

Pull Requests 1

Issues 6

Wiki

Graphs

The last OpenStreetMap road query you will ever need. — [Read more](#)

Clone in Mac



ZIP

HTTP

Git Read-Only

git://github.com/migurski/HighRoad.git



Read-Only access



branch: master

Files

Commits

Branches 2

Tags 2

Downloads

 Latest commit to the **master** branch

...missed one.



migurski authored 2 months ago



commit d681ece1b7

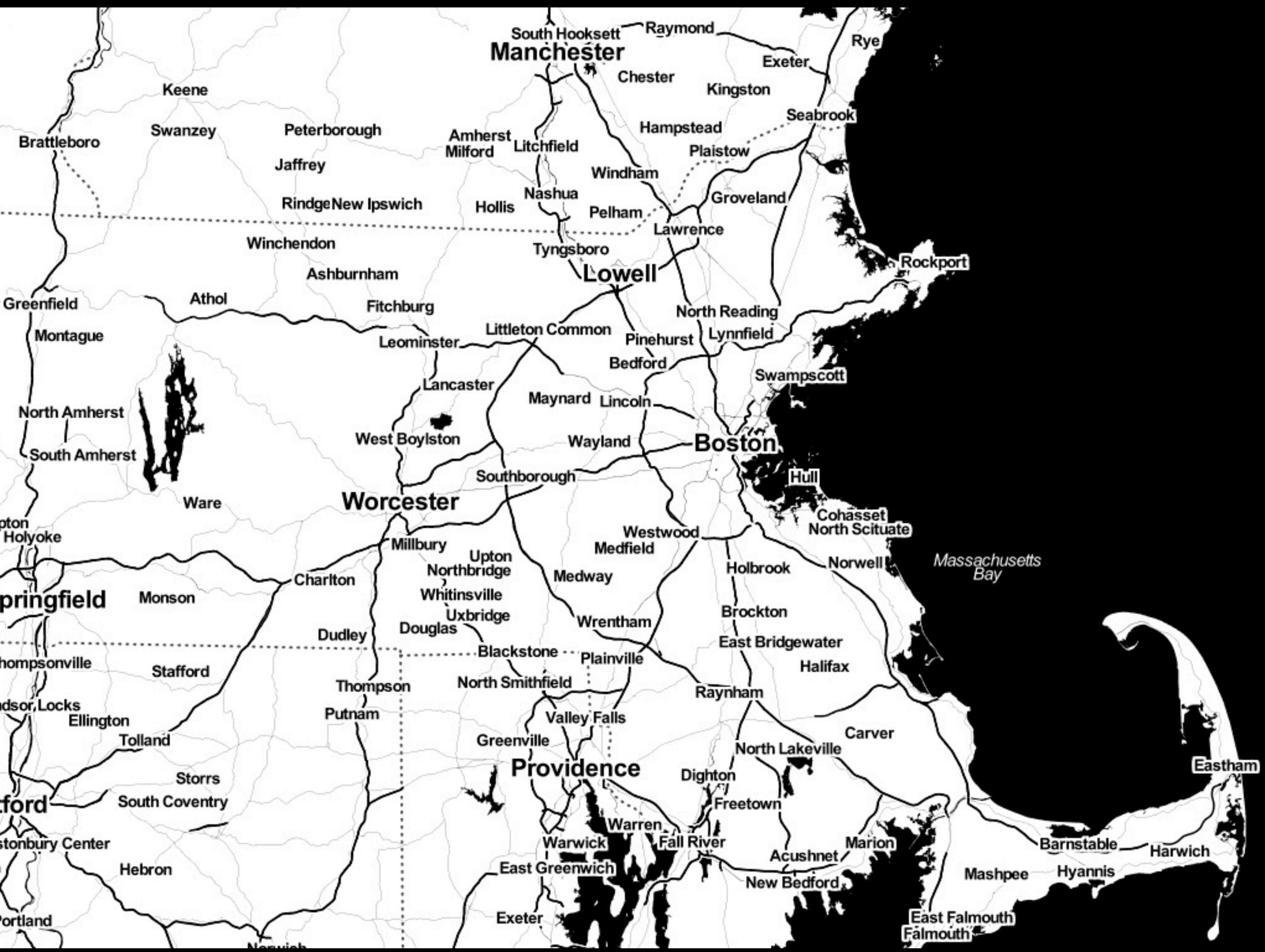
HighRoad /

name	age	message	history
renders	a year ago	Removed giant, made renders from Git [Michal Migurski]	
.gitignore	a year ago	Removed made style.xml from Git [Michal Migurski]	
Makefile	a year ago	Moved HTML preview file [Michal Migurski]	
README.md	2 months ago	...missed one. [migurski]	
high_road_views-remove.pgsql	2 months ago	formatting [nvkelso]	
high_road_views-setup.pgsql	2 months ago	added remove, upgrade section to readme in pgsql script [nvkelso]	
index.html	a year ago	Moved HTML preview file [Michal Migurski]	
	a year ago	First commit, copied from r110 [Michal Migurski]	

Dymo *demo*

<http://vimeo.com/29227985>









San Francisco

Oakland

Concord

Berkeley

Hayward

Fremont

Palo Alto

Sunnyvale

San Jose

Brisbane

Emeryville

Portola Valley

Woodside

Half Moon Bay

El Granada

Montara

Hillsborough

SFO

Colma

Broadmoor

OAK

Chabot Regional Park

Piedmont

Tilden Park

East Richmond Heights

El Sobrante

Rollingwood

Santa Venetia

Woodacre

Fairfax

San Anselmo

Bolinas

Mill Valley

Strawberry

Tiburon

Sausalito

Crockett

Vine Hill

Pacheco

Clayton

Waldon

Diablo

John Marsh Home State
Historic Park
Round Valley Regional
Preserve

Carnegie Sta
Recreati

Lake Del Valle State
Recreational Area

East Foothills

Alum Rock

Seven Trees

Loyola

Monte Bello Open Space
Preserve

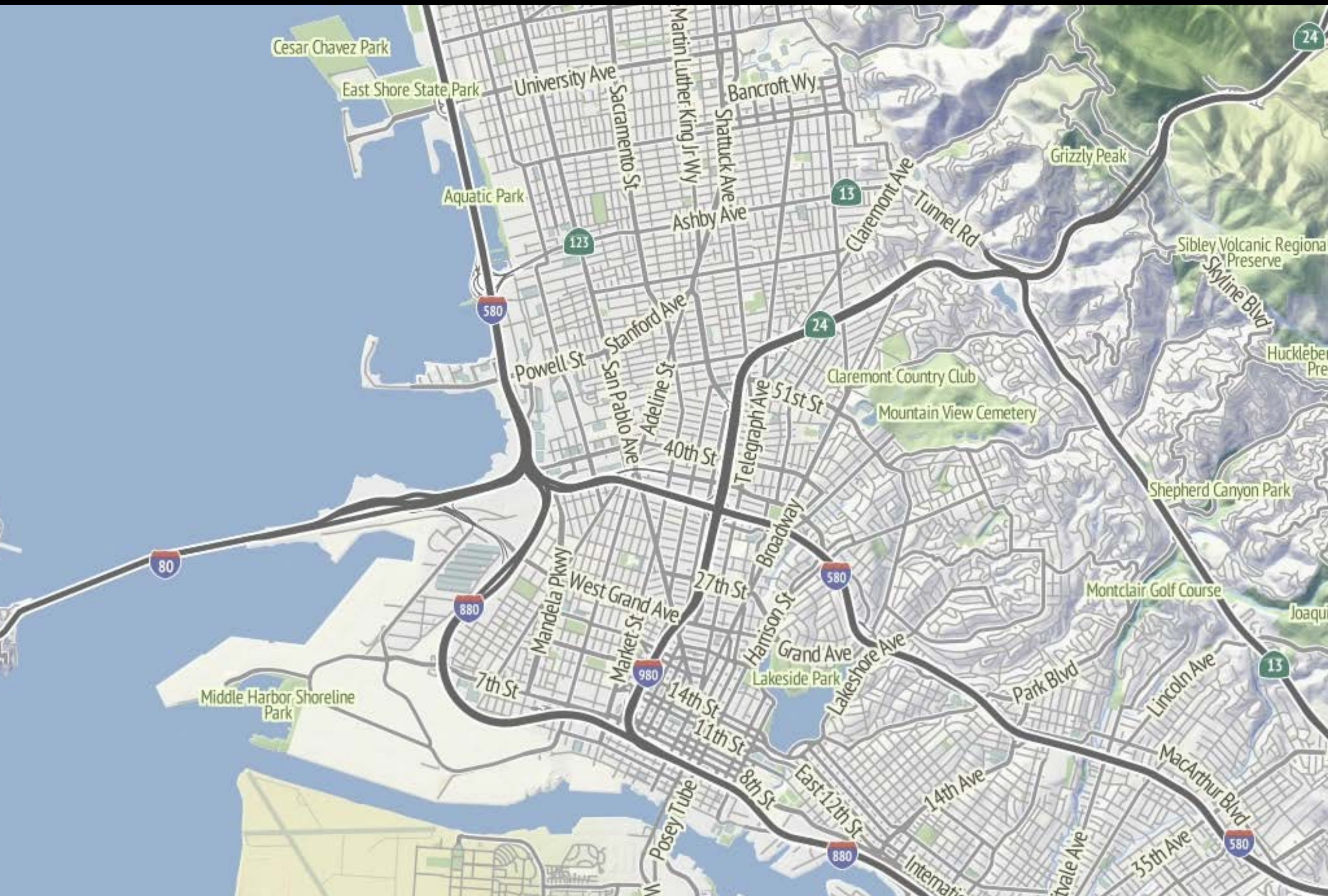
Stanford

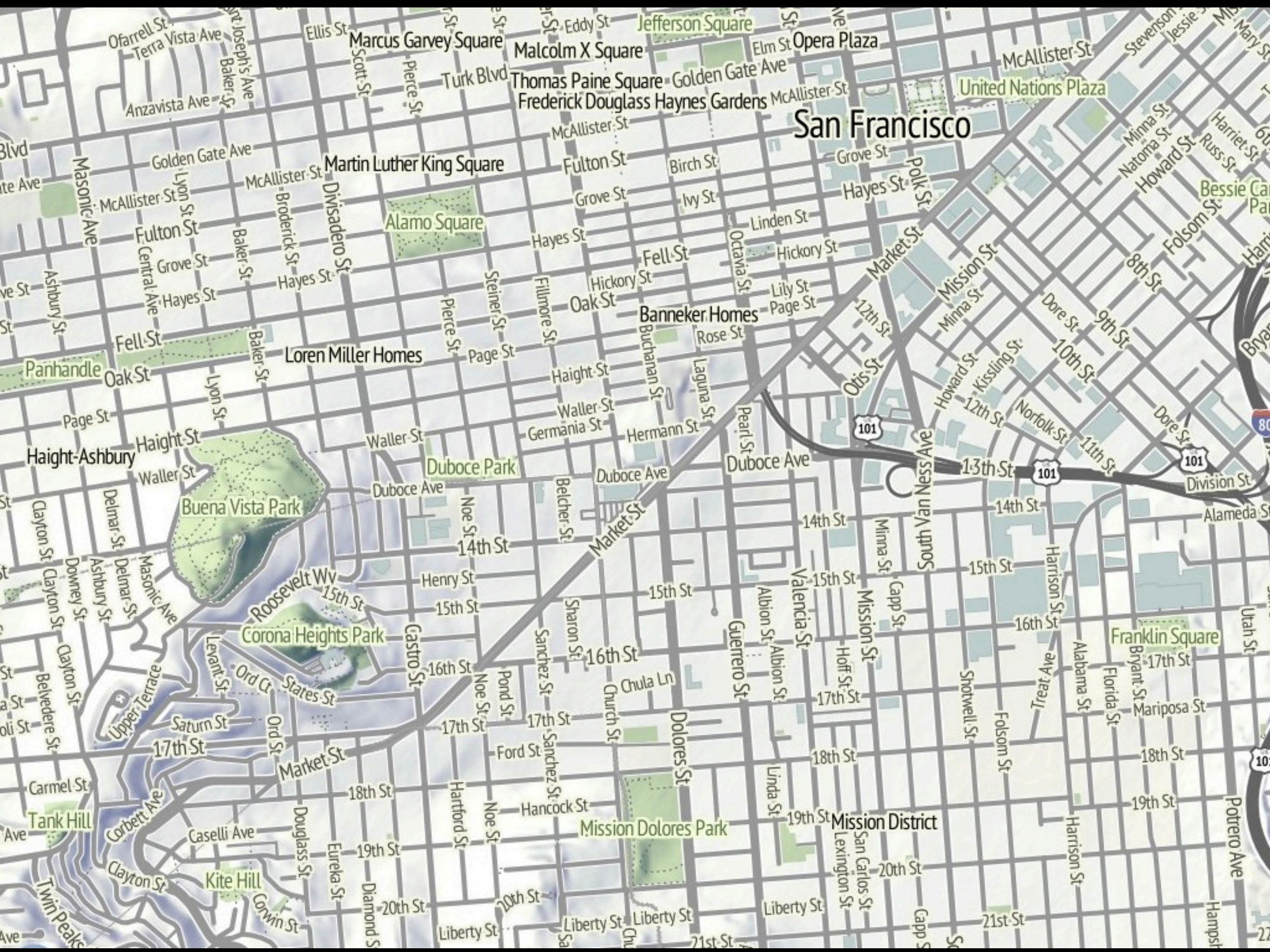
Atherton

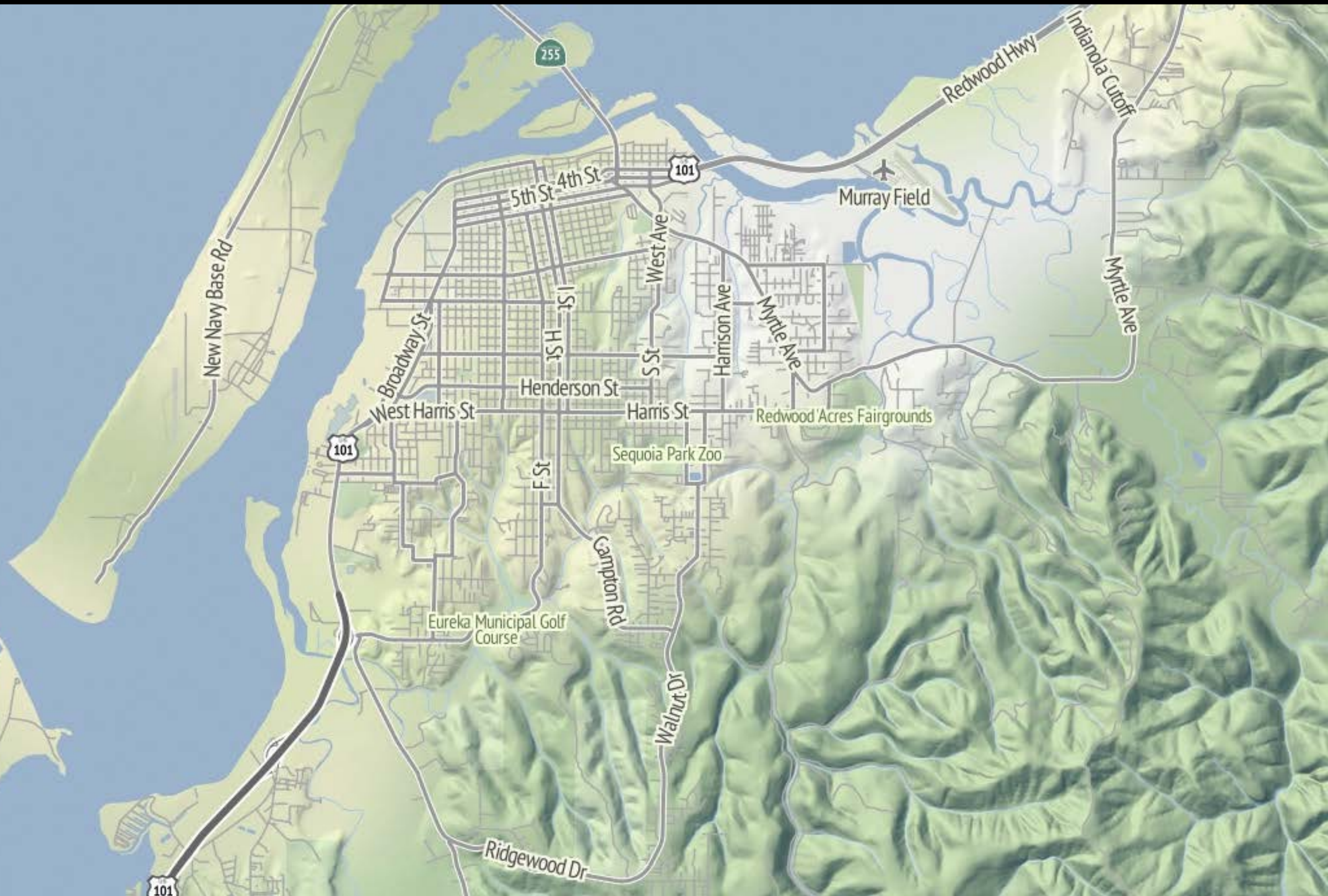
Point Reyes National
Seashore

Samuel P. Taylor State
Park

Bethel







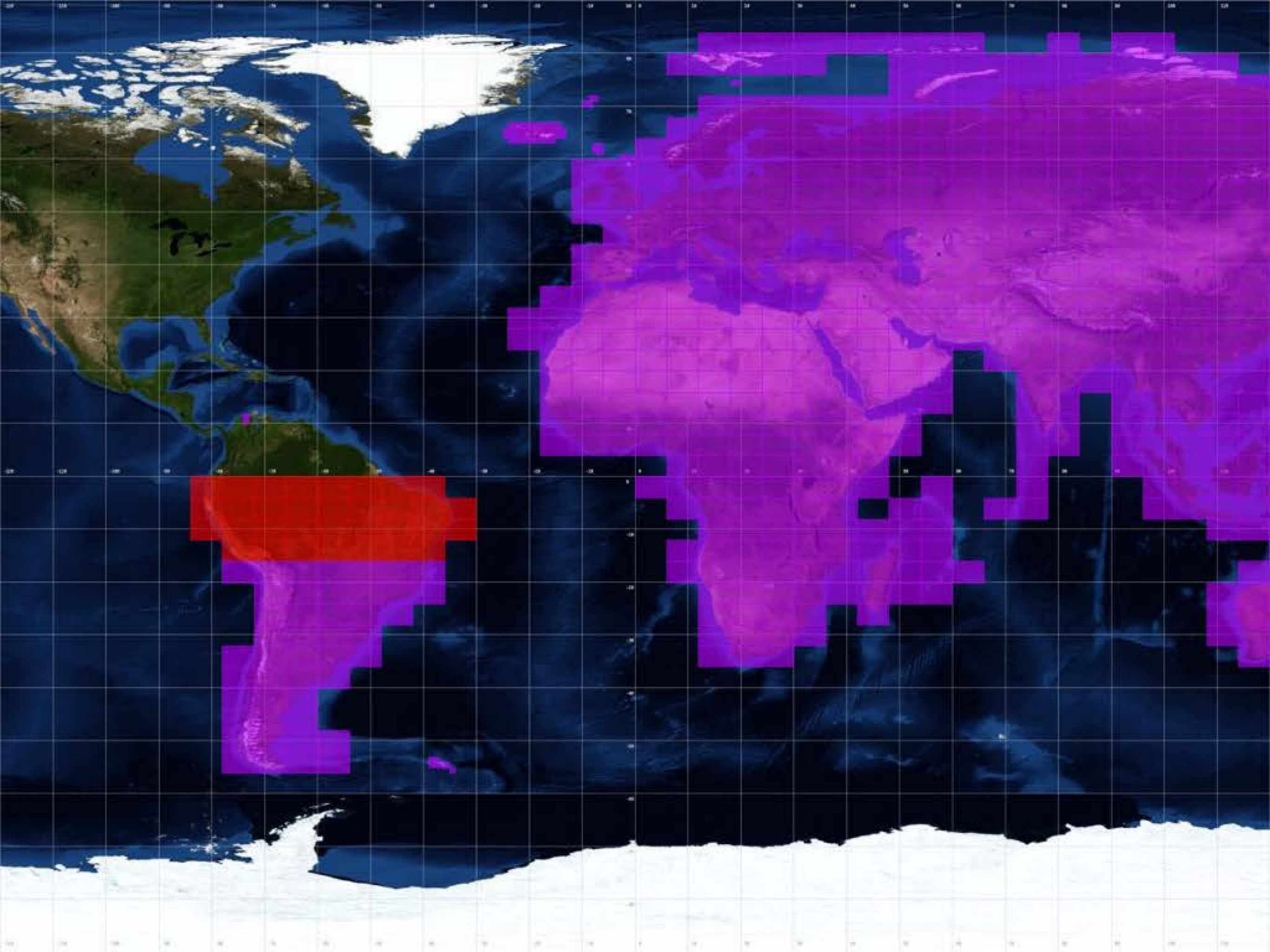
redacted

redacted

redacted

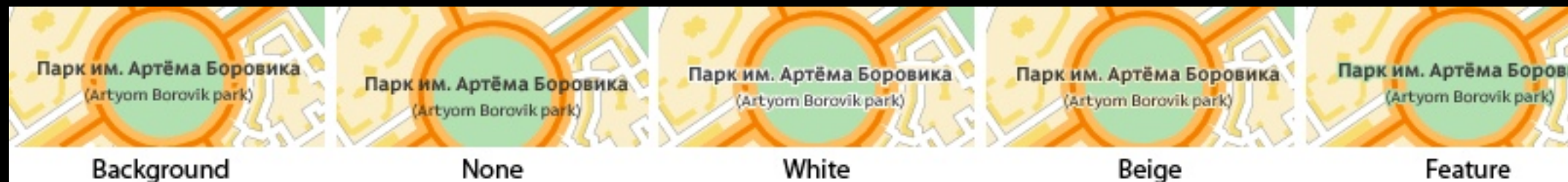
redacted

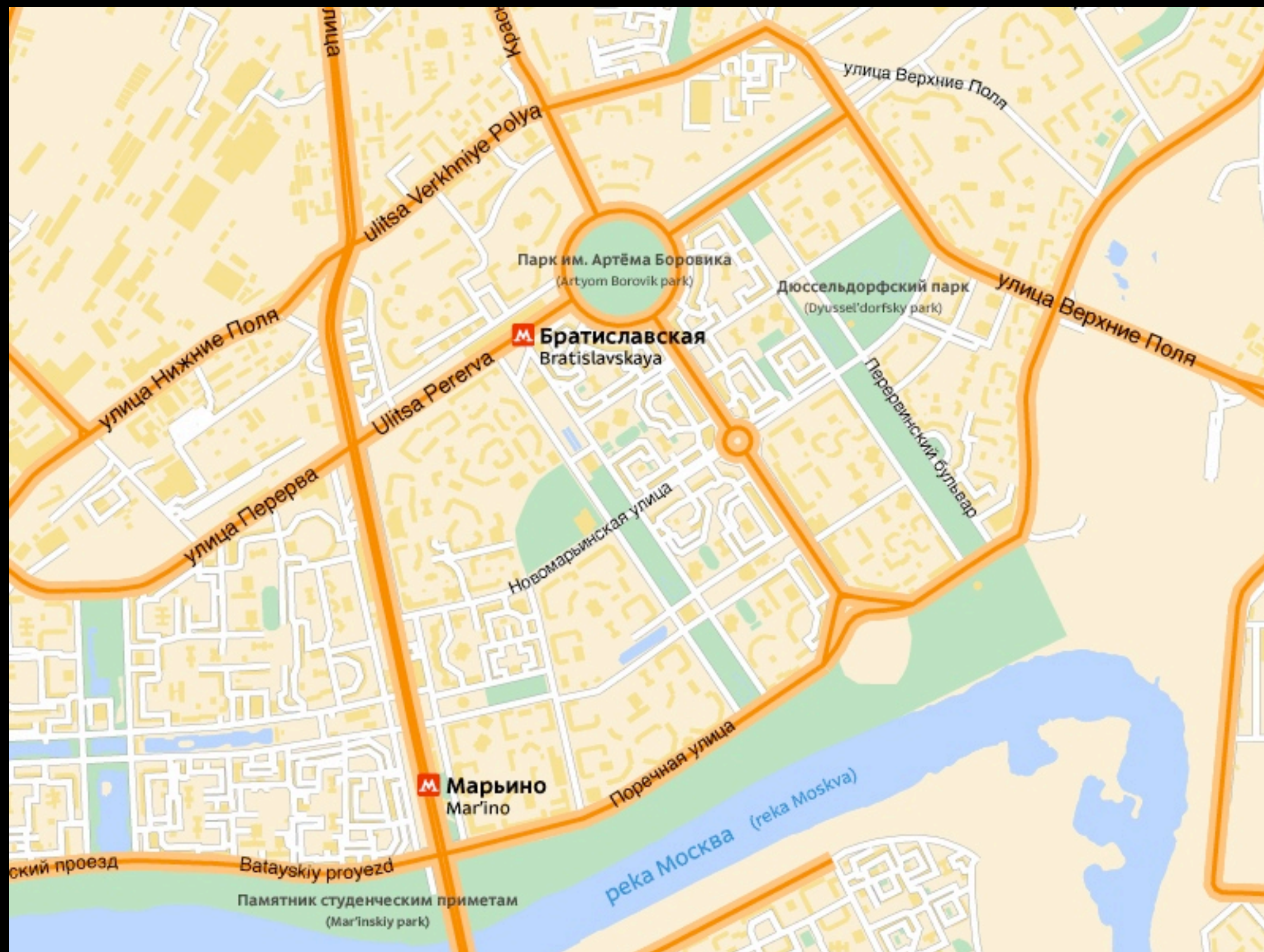
redacted

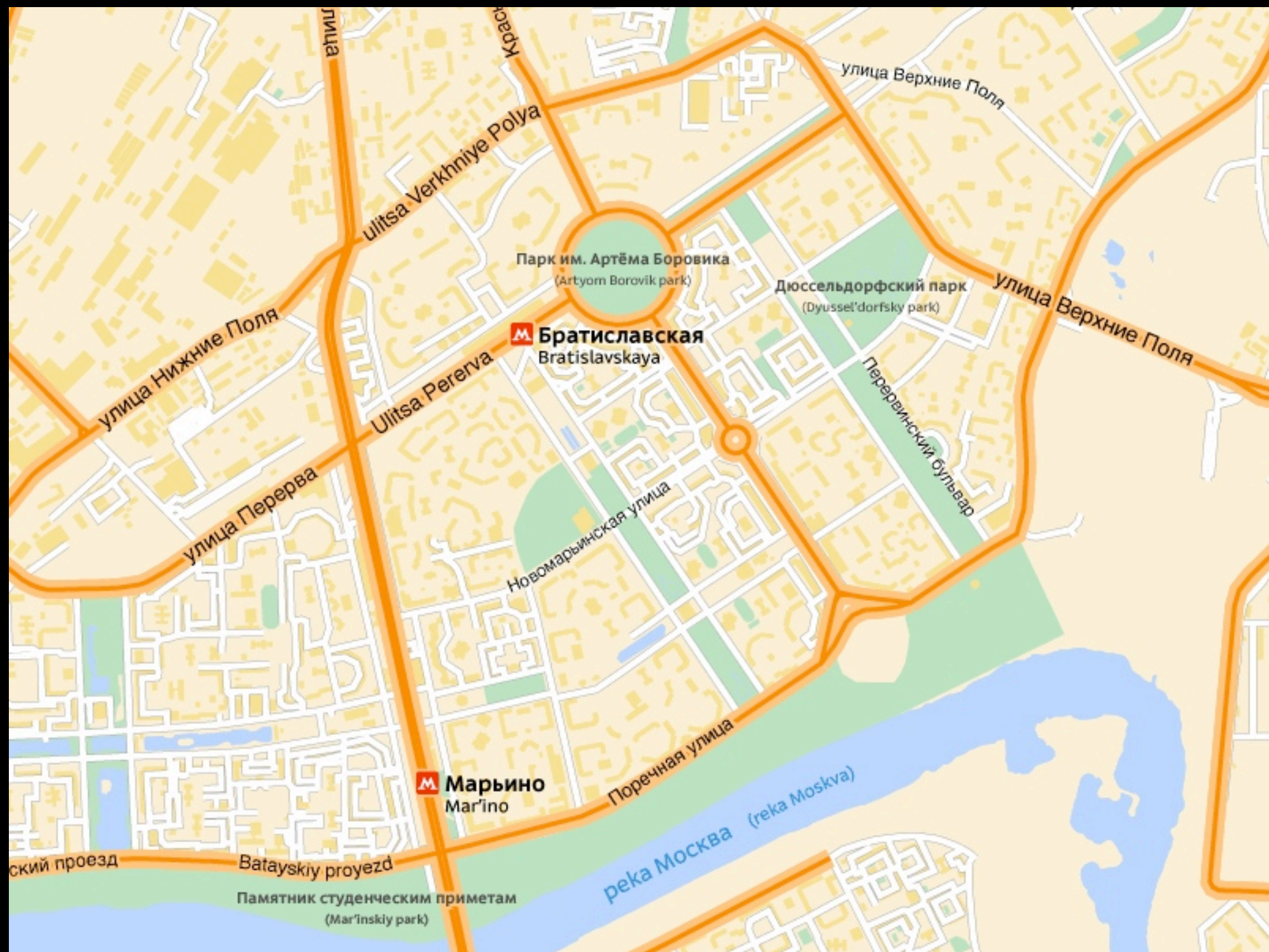


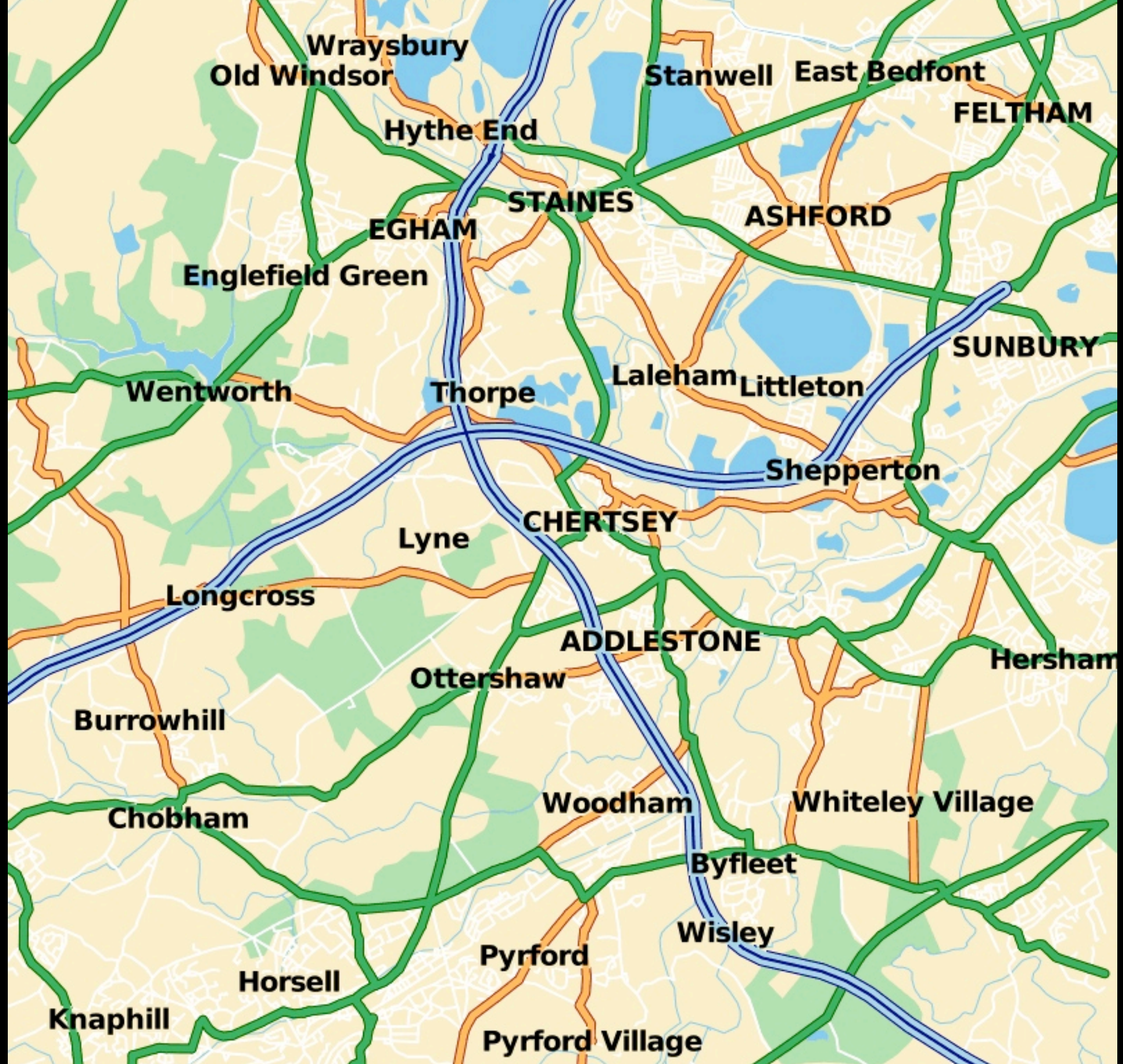
redacted

redacted









Wraysbury
Old Windsor

Stanwell East Bedfont

FELTHAM

Hythe End

STAINES

ASHFORD

EGHAM

Englefield Green

SUNBURY

Wentworth

Thorpe

Laleham

Littleton

Shepperton

CHERTSEY

Lyne

Longcross

ADDLESTONE

Ottershaw

Hersham

Burrowhill

Chobham

Woodham

Whiteley Village

Byfleet

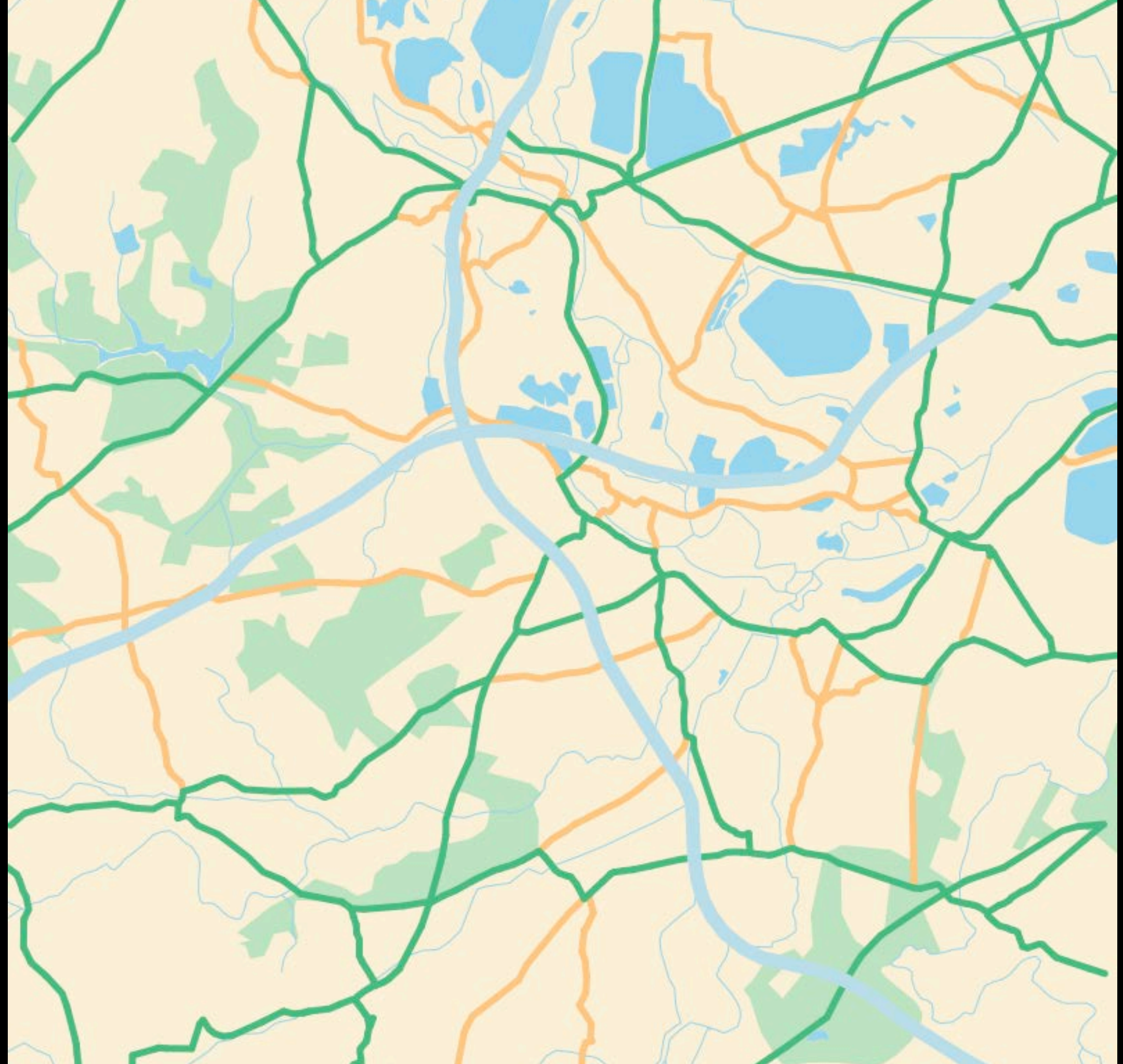
Wisley

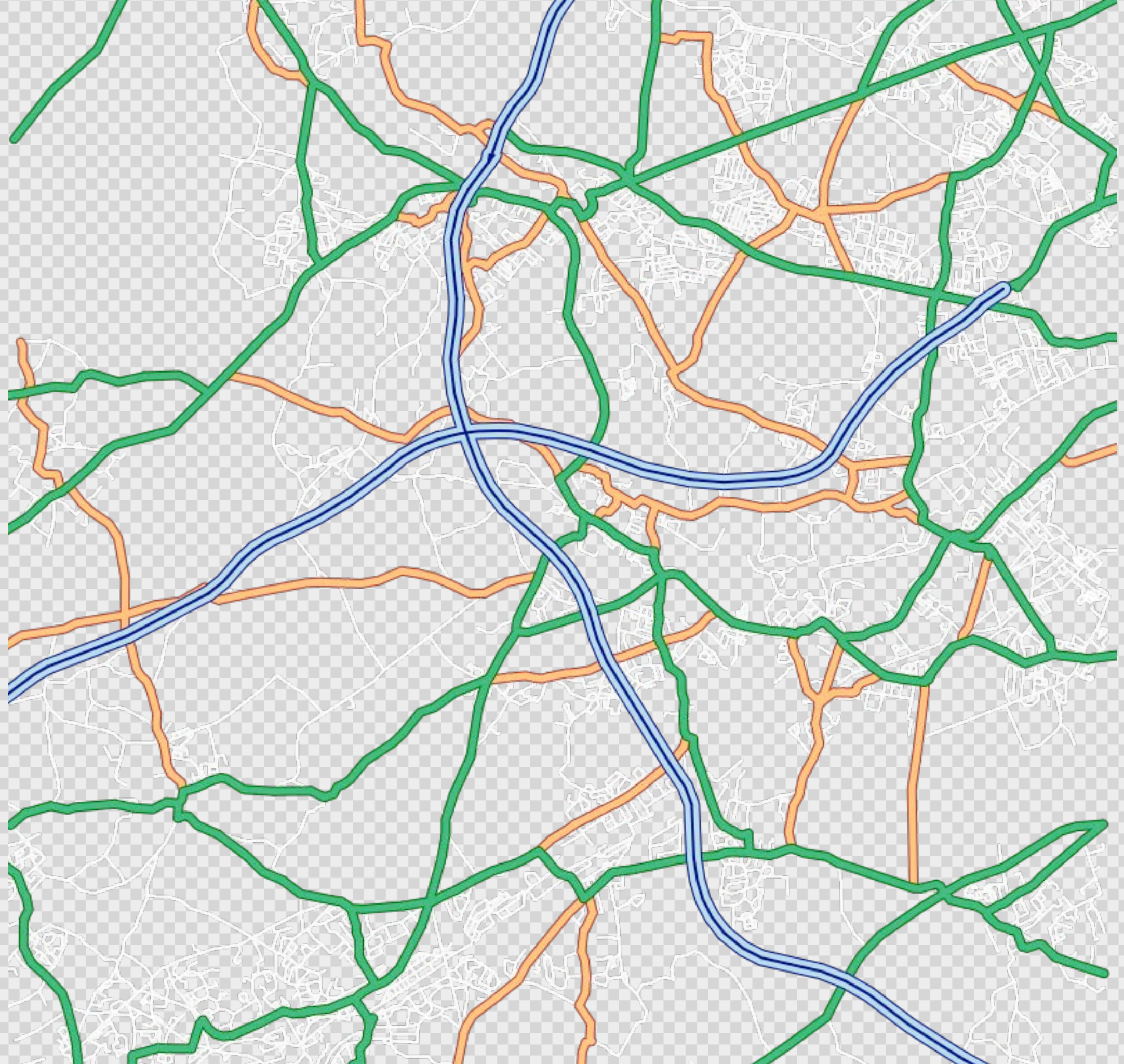
Pyrford

Horsell

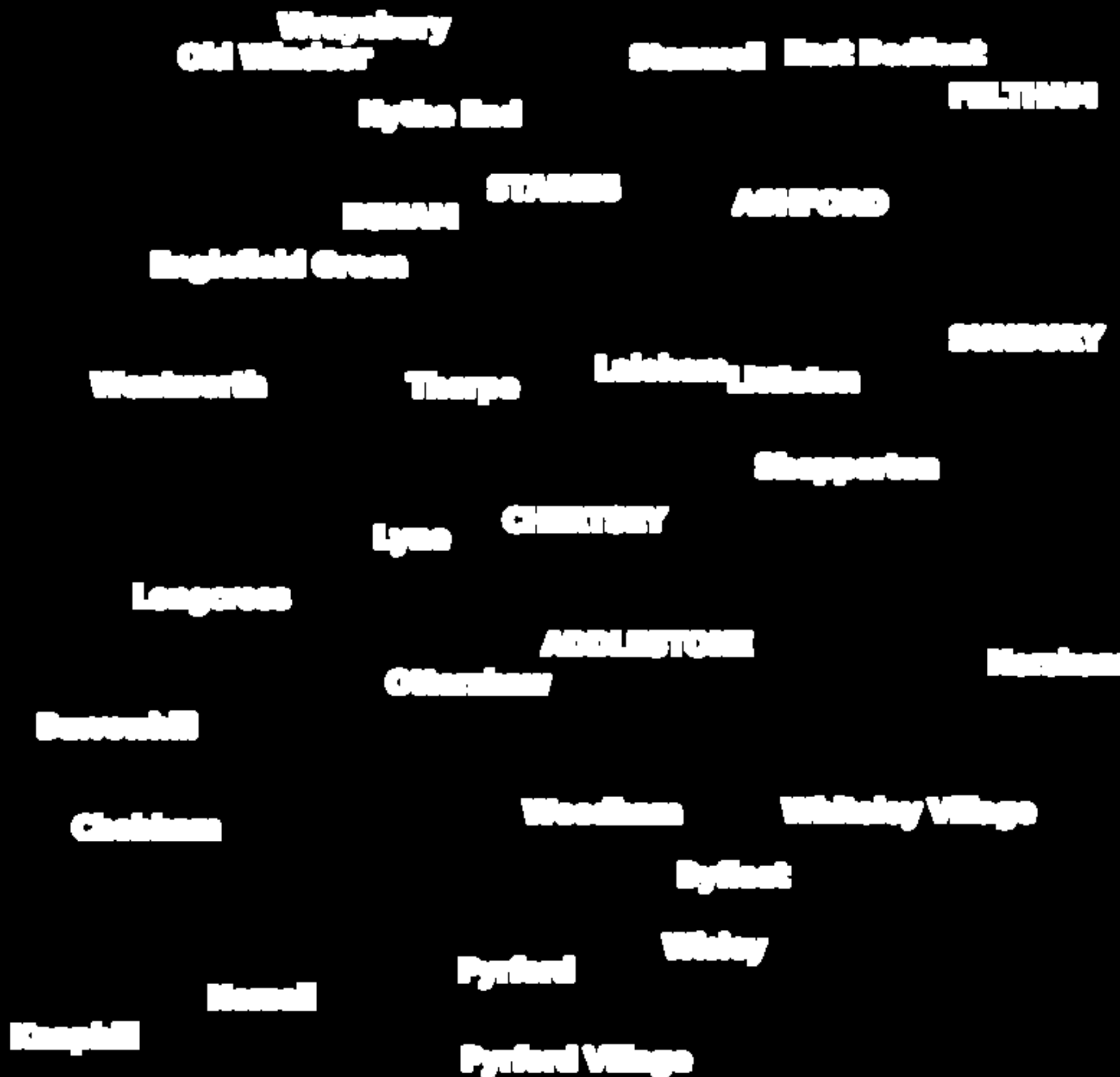
Knaphill

Pyrford Village

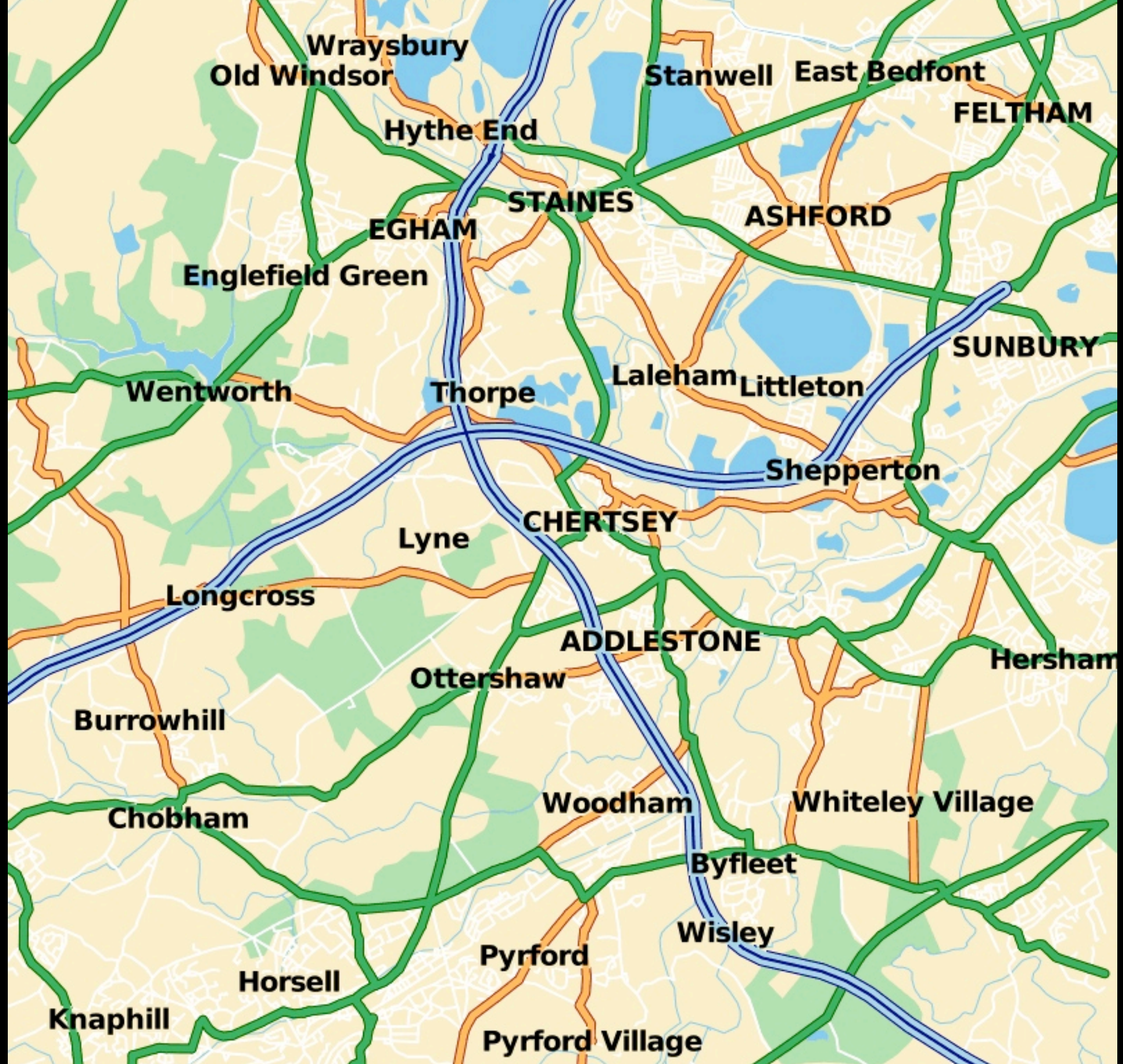




Wraysbury
Old Windsor Stanwell East Bedfont
Hythe End FELTHAM
EGHAM STAINES ASHFORD
Englefield Green
Wentworth Thorpe Laleham Littleton SUNBURY
Shepperton
Lyne CHERTSEY
Longcross
Ottershaw ADDLESTONE Hersham
Burrowhill
Chobham Woodham Whiteley Village
Byfleet
Wisley
Pyrford
Horsell
Knaphill
Pyrford Village



Wraysbury
Old Windsor
Stanwell East Bedfont
FELTHAM
Hythe End
EGHAM STAINES ASHFORD
Englefield Green
SUNBURY
Wentworth Thorpe Laleham Littleton
Shepperton
Lyne CHERTSEY
Longcross
ADDLESTONE
Ottershaw Hersham
Burrowhill
Chobham Woodham Whiteley Village
Byfleet
Wisley
Horsell
Pyrford
Knaphill
Pyrford Village





github

Search...

[Explore](#) [Gist](#) [Blog](#) [Help](#)

nvkelso



PUBLIC



Citytracking / Terrain



Pull Request



Watch



Star

86



Fork

7

Code

Network

Pull Requests 1

Issues 5

Wiki

Graphs

Admin

<http://tile.stamen.com/terrain/preview.html>

Clone in Mac



ZIP

HTTP

SSH

Git Read-Only

`git@github.com:Citytracking/Terrain.git`

Read+Write access



branch: master



Files

Commits

Branches 4

Tags

Downloads

Latest commit to the **master** branch

Merge remote branch 'imposm/subdirectorize'



Michal Migurski authored 3 months ago

commit `afe823ff29`

Terrain /

name	age	message	history
hillfarm	6 months ago	Added city-names-halomask layer to stack.html and z8 renders to show it [Michal Migurski]	
landcover	9 months ago	oops [Michal Migurski]	
mapnik	3 months ago	Merge remote branch 'imposm/subdirectorize' [Michal Migurski]	
renders	6 months ago	Split mapnik/Makefile into just-Mapnik and all-Terrain parts [Michal Migurski]	
Makefile	6 months ago	Replaced old cities* and style.xml configuration with new lines* and ... [Michal Migurski]	
README.md	9 months ago	Added a short description [Michal Migurski]	
renders.html	6 months ago	Split mapnik/Makefile into just-Mapnik and all-Terrain parts [Michal Migurski]	
tilestache.cfg	6 months ago	Replaced old cities* and style.xml configuration with new lines* and ... [Michal Migurski]	



README.md



The tips and tricks here are oriented to BYOD (bring your down data) mapping and OpenStreetMap obliquely.

Presentation cartography and basic inventory mapping is the focus here. Spatial analytics is touched upon briefly but is not the main focus. This site makes assumptions that OpenSource GIS mostly means: PostGIS as a spatial data store and Mapnik as a rendering engine, a Mappy CSS styling language like Cascadenik or Carto to setup the layers and their appearance. Interactivity is briefly touched on. Actually embedding the resulting tile assets is briefly touched on.

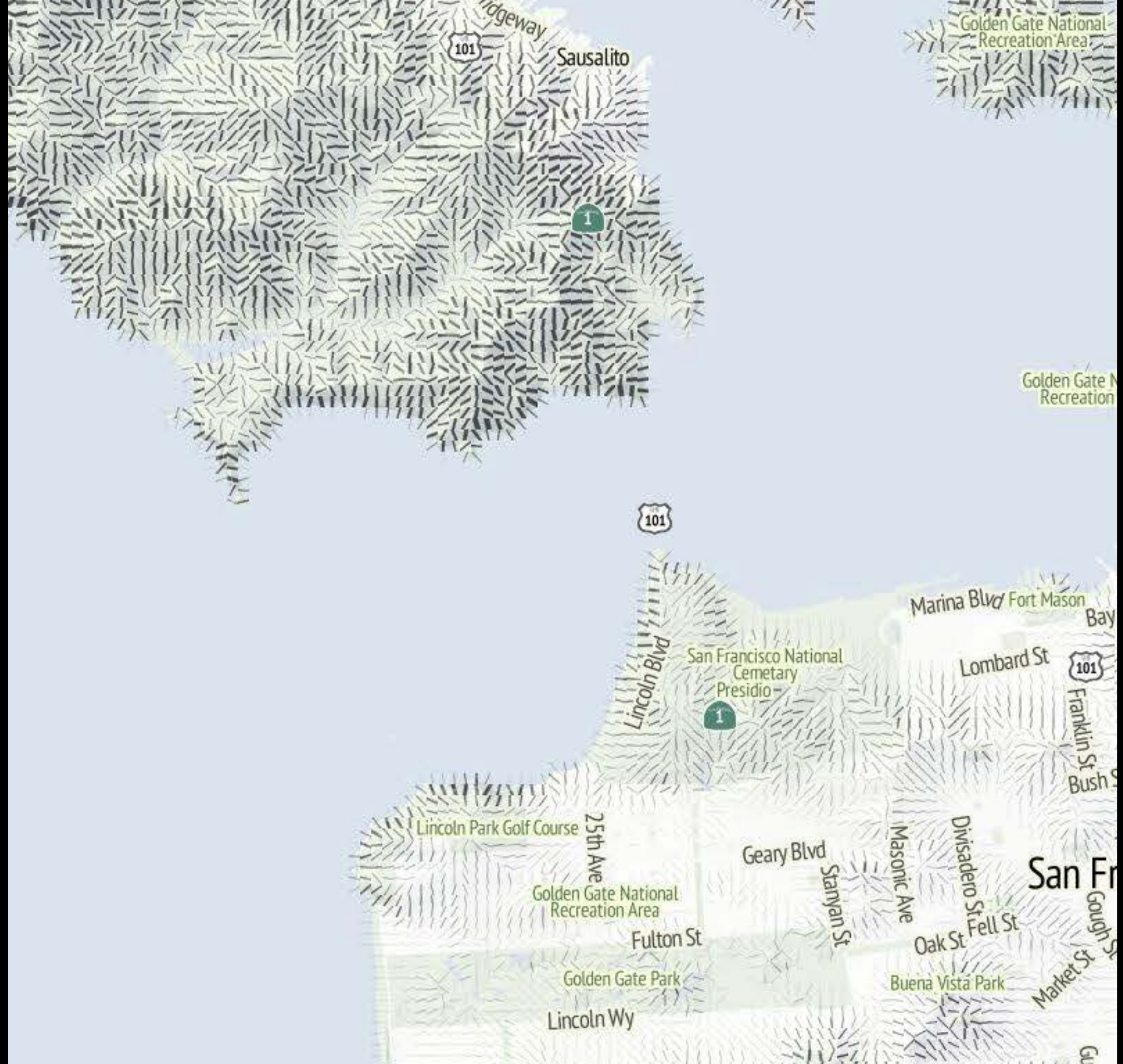
Looking for an overview of OSM instead? Check out the [Switch2osm](#) site.

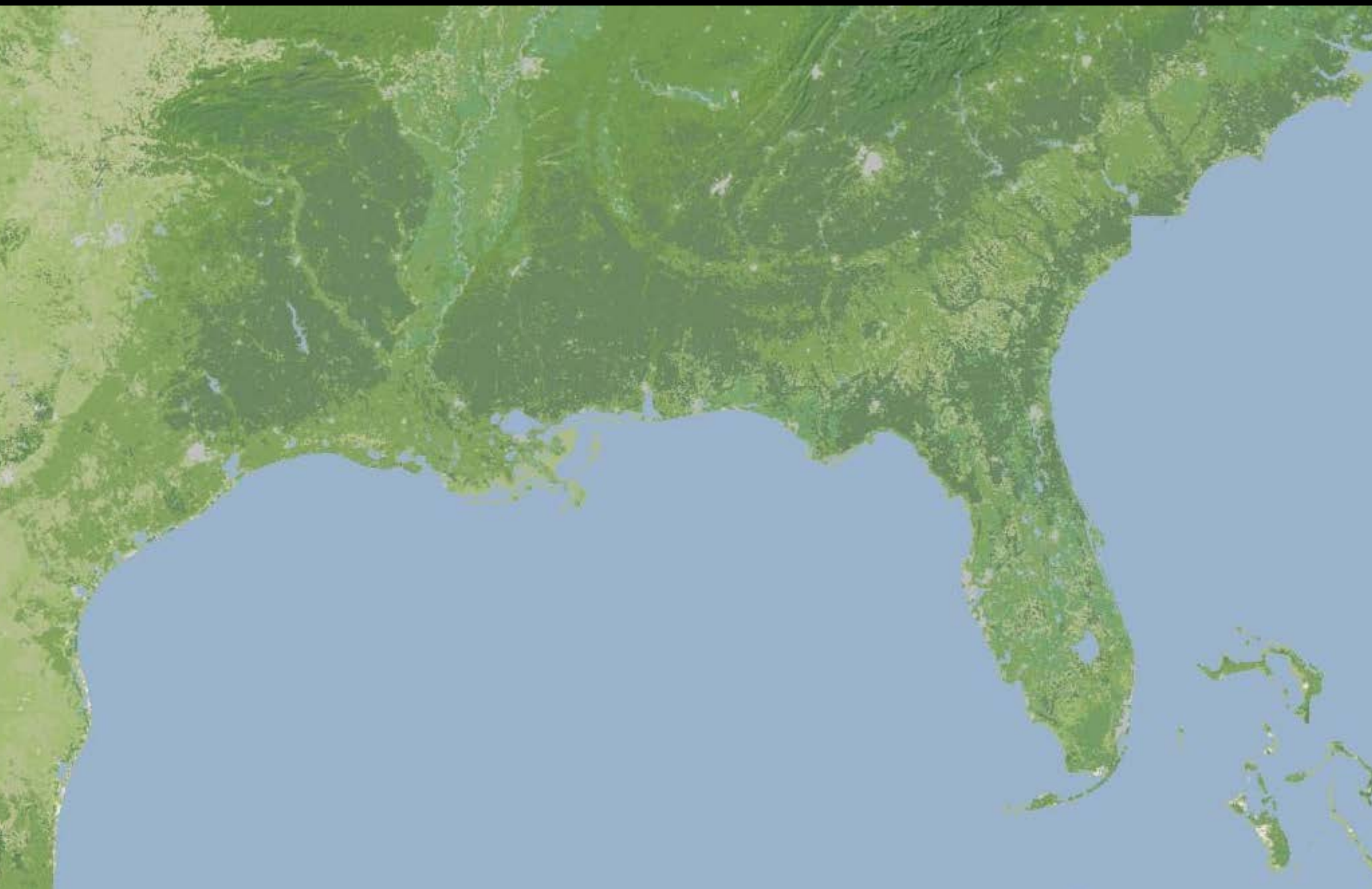
Getting started

- [Software](#) - Install critical software and links to tutorials.
- [Data](#) - Download OSM and Natural Earth data.
- [Example workflow](#) - Start a project, import data, export data, create tiles.

Questions?

kelso.it/x/mcw2012









Whiskeytown-Shasta-Trinity
Natl Rec Area

5

5

5

