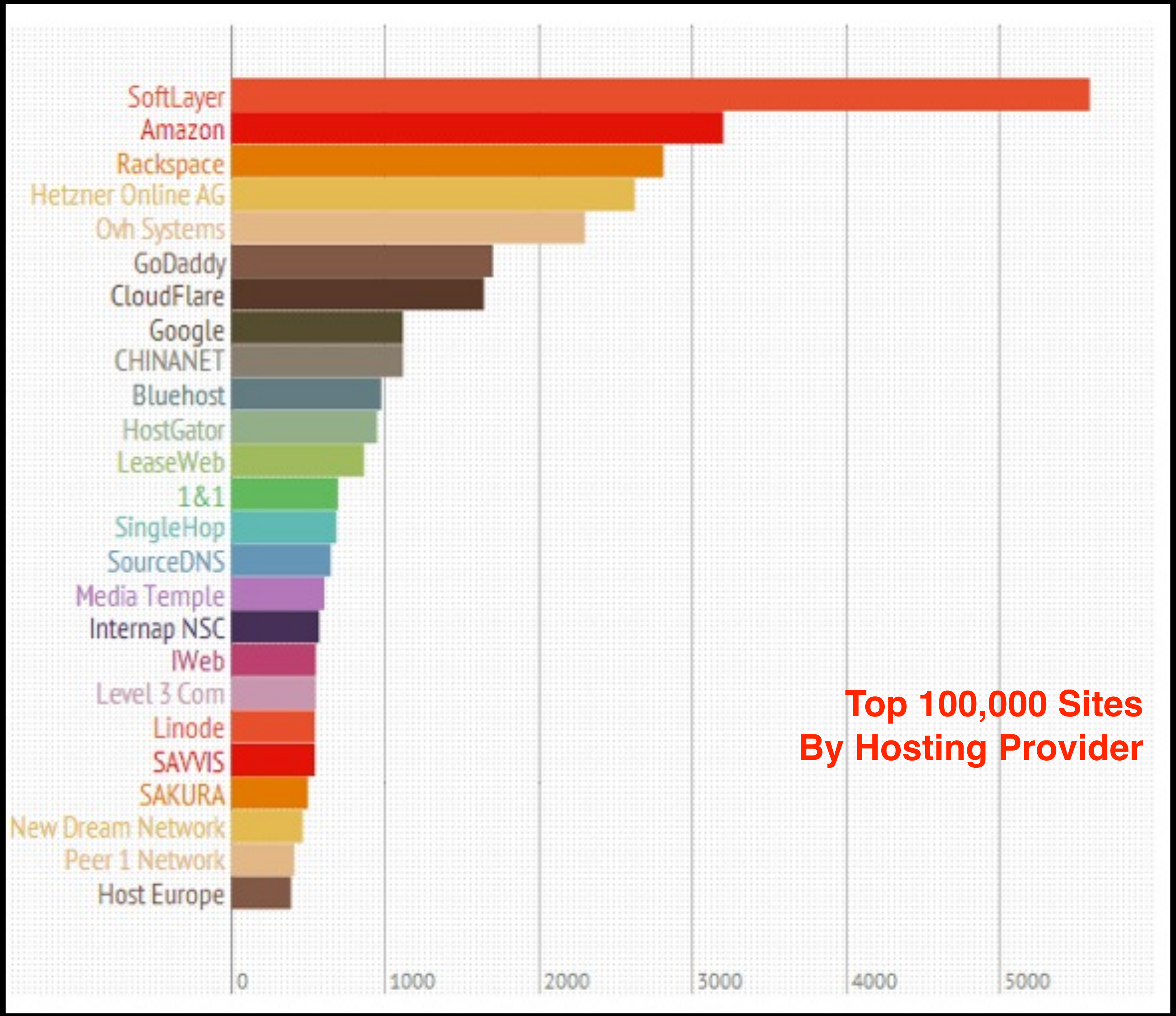
Dream in Cloud

Jonathan Wisler, General Manager EMEA
@jpwisler

SOFTLAYER

Founders



Source: Hostcabi.net

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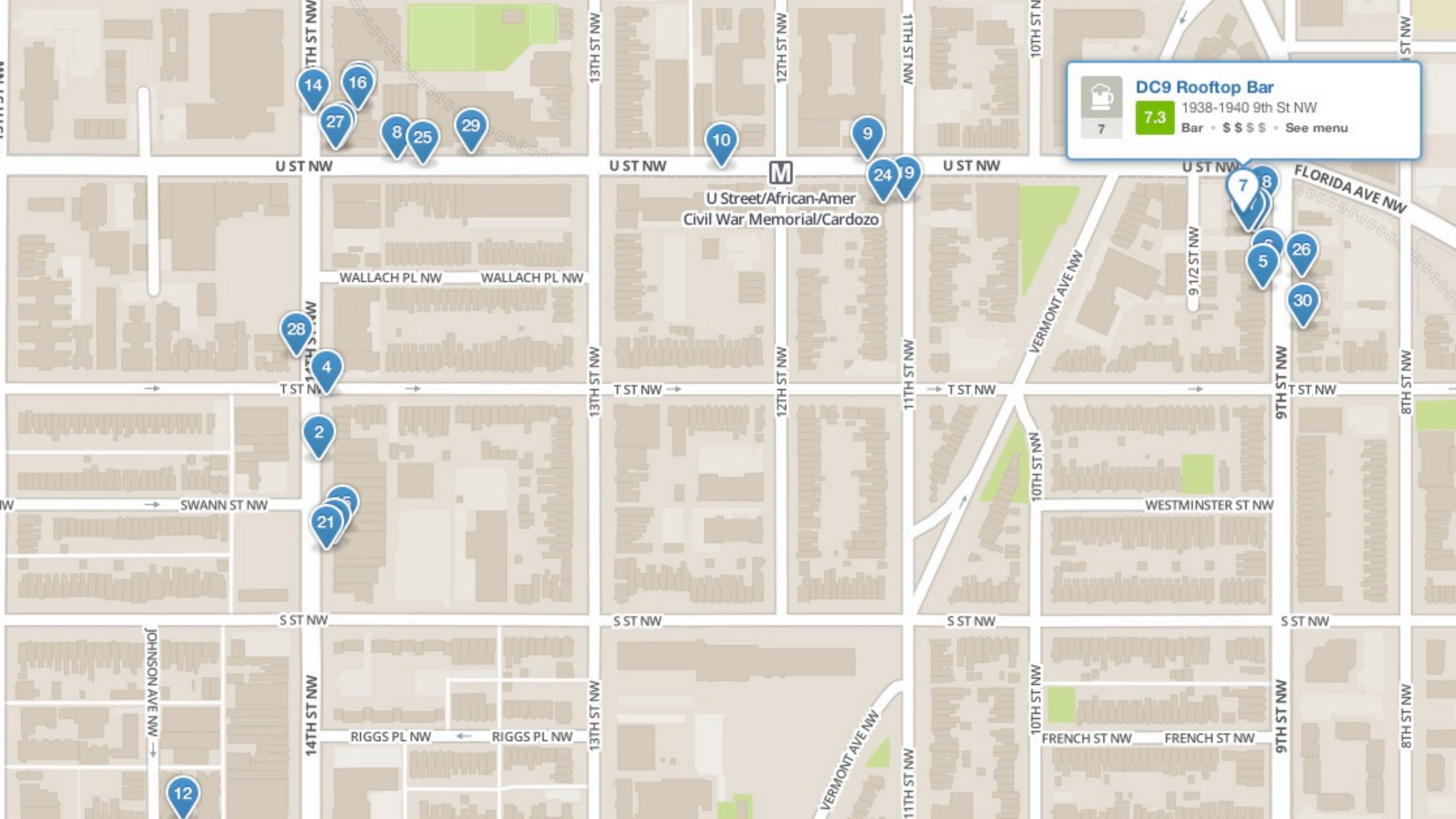
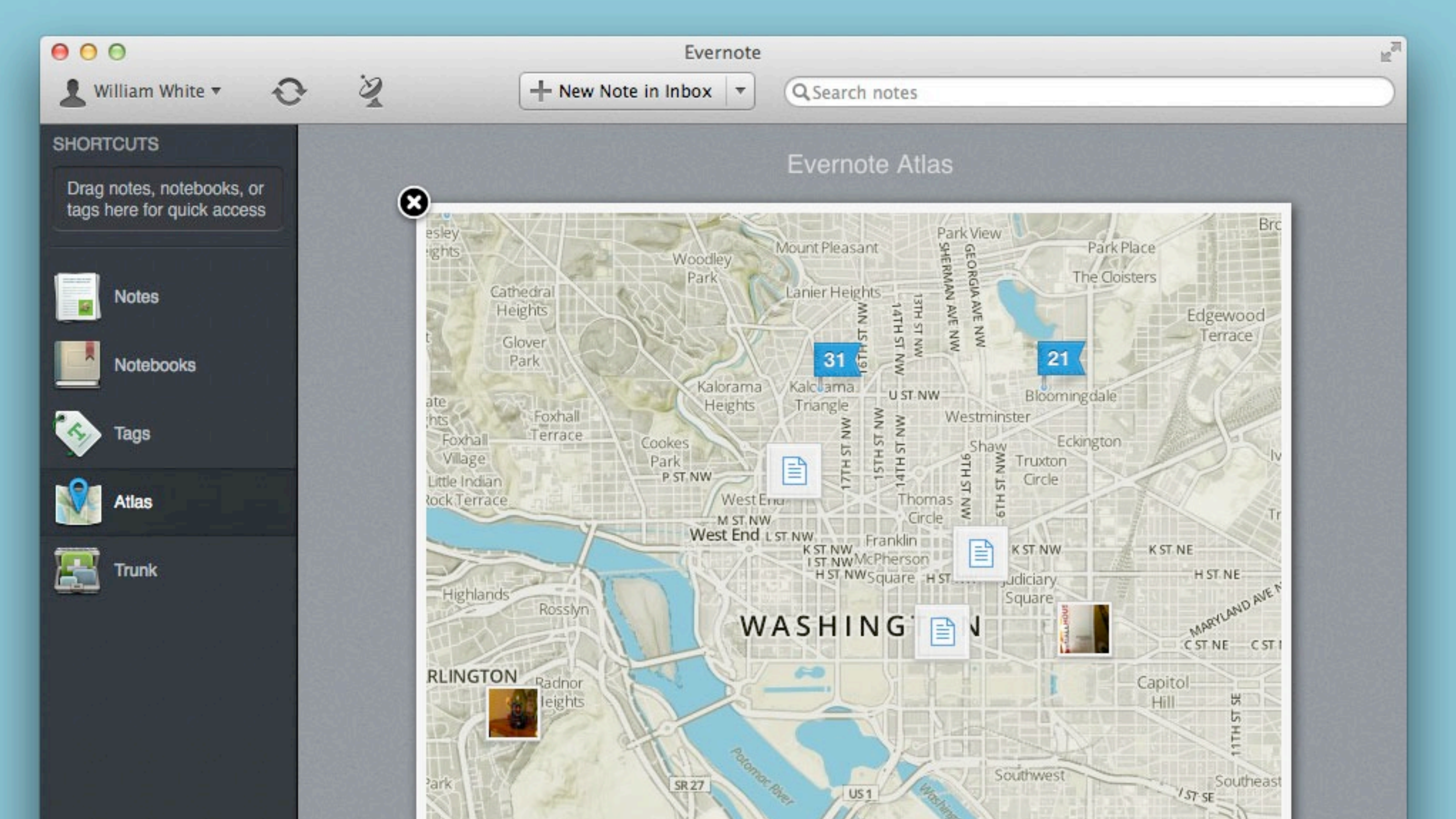
SNOWCIETY


Thumersbach
Zell am See
Schmittenhöhebahn
trassXpress
City Xpress
Hirschkogel-Express
Areitbahn III
Areitbahn II
Areitbahn I
Glocknerbahn
Sonnkogelbahn
Hochmaisbahn
Sonnenalmbahn



DC9 Rooftop Bar
7.3
1938-1940 9th St NW
Bar • $ $ $ $ • See menu
7
U ST NW
U Street/African-Amer
Civil War Memorial/Cardozo
FLORIDA AVE NW
WALLACH PL NW
T ST NW
SWANN ST NW
WESTMINSTER ST NW
S ST NW
RIGGS PL NW
FRENCH ST NW
VERMONT AVE NW
JOHNSON AVE NW
14TH ST NW
13TH ST NW
12TH ST NW
11TH ST NW
10TH ST NW
9 1/2 ST NW
9TH ST NW
8TH ST NW


Evernote
William White
New Note in Inbox
Search notes
SHORTCUTS
Drag notes, notebooks, or tags here for quick access
Notes
Notebooks
Tags
Atlas
Trunk
Evernote Atlas
31
21
WASHINGTON
Woodley Park
Mount Pleasant
Park View
Park Place
The Cloisters
Cathedral Heights
Lanier Heights
Edgewood Terrace
Glover Park
Kalorama Heights
Kalorama Triangle
Bloomingdale
Westminster
Foxhall Terrace
Foxhall Village
Cookes Park
Shaw
Eckington
Truxton Circle
Little Indian Rock Terrace
Thomas Circle
West End
Franklin McPherson Square
Judiciary Square
Highlands
Rosslyn
Capitol Hill
Radnor Heights
Southwest
Southeast

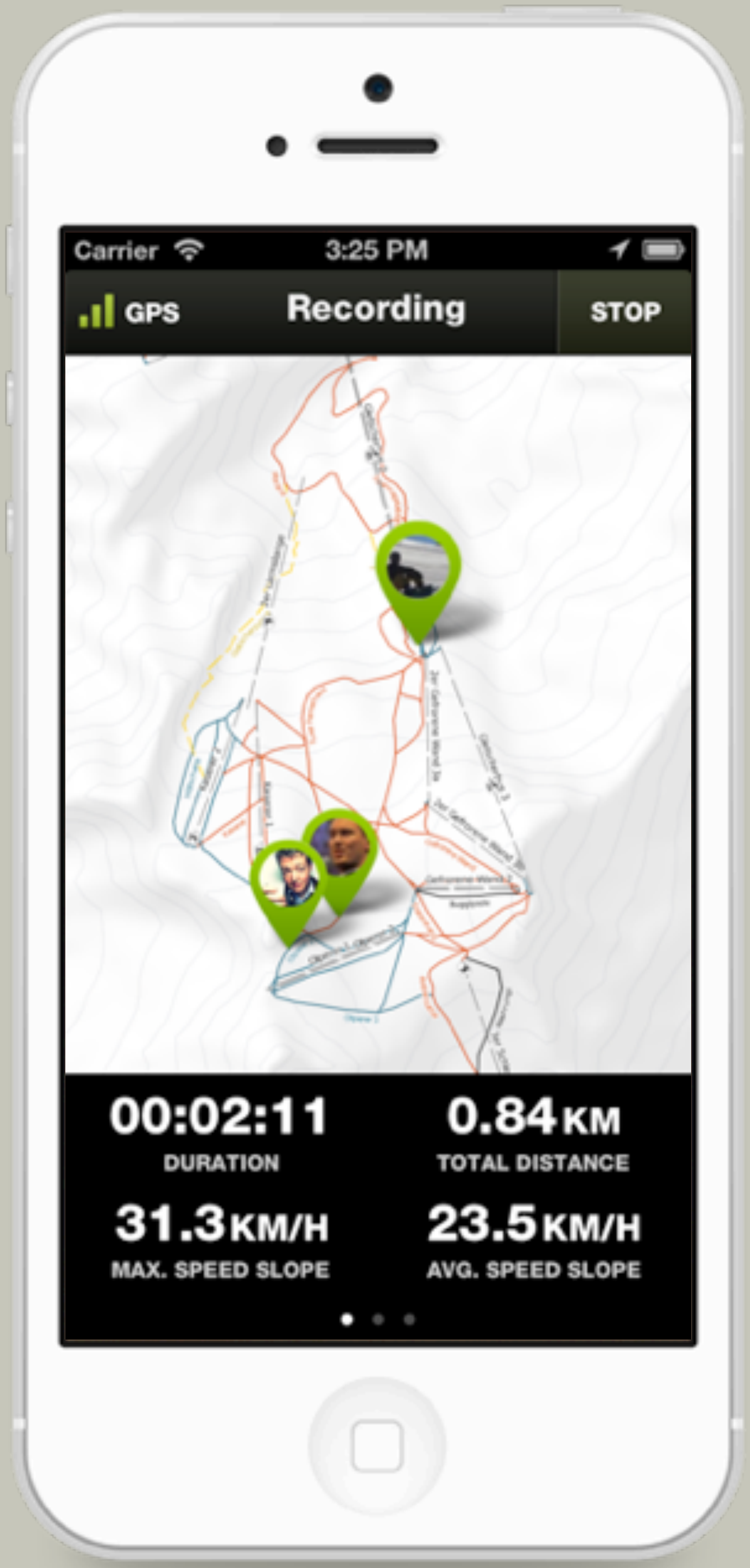

AT&T
9:35 PM
6:16
Transport 9min
6:24
Walk 4min
6:28
Place in Lower Burnside
9:08
Walk 3min
9:10
Transport 12min
9:23
Home
9:35

Building maps for apps in the cloud

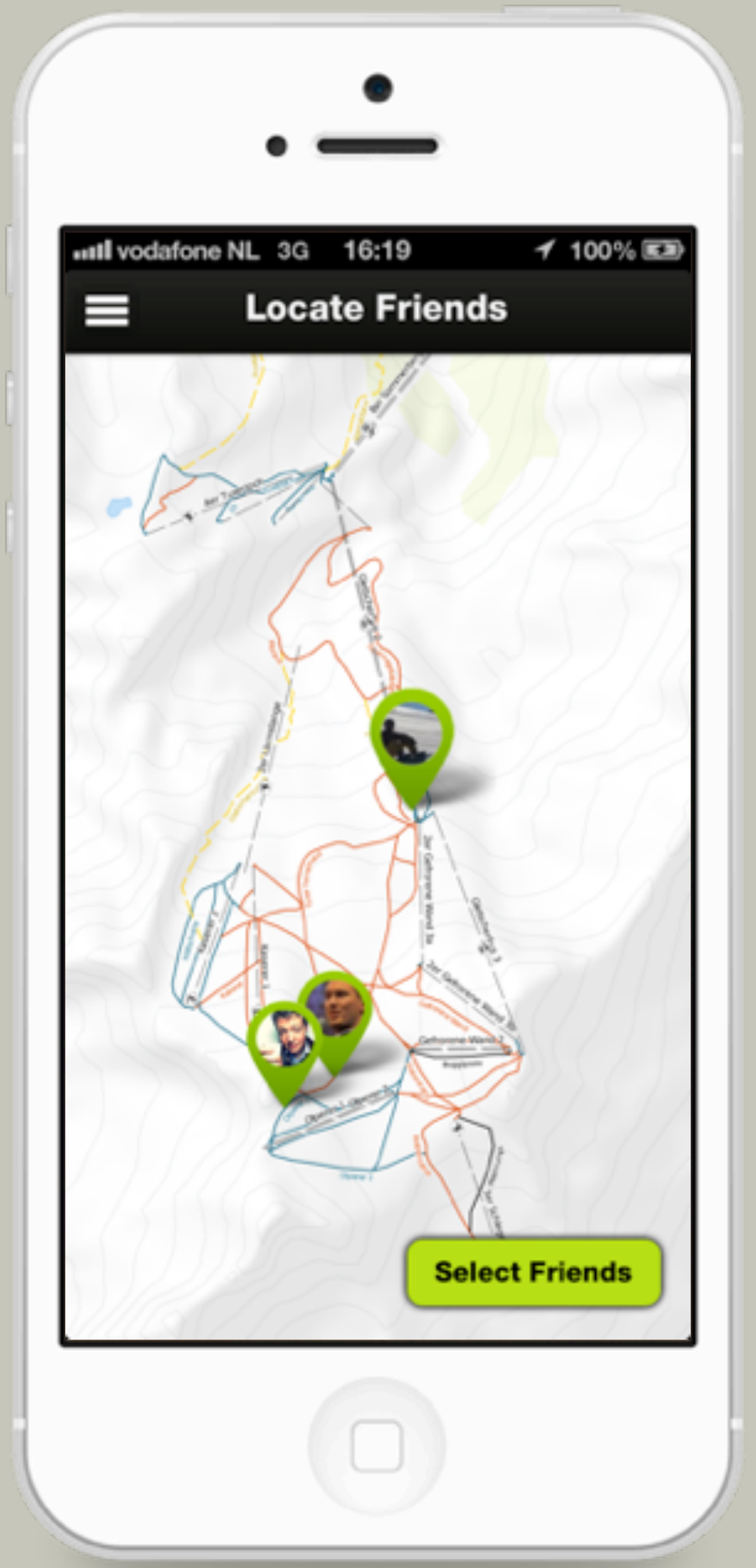

SNOWCIETY
Sc

Share your skiing with the world.

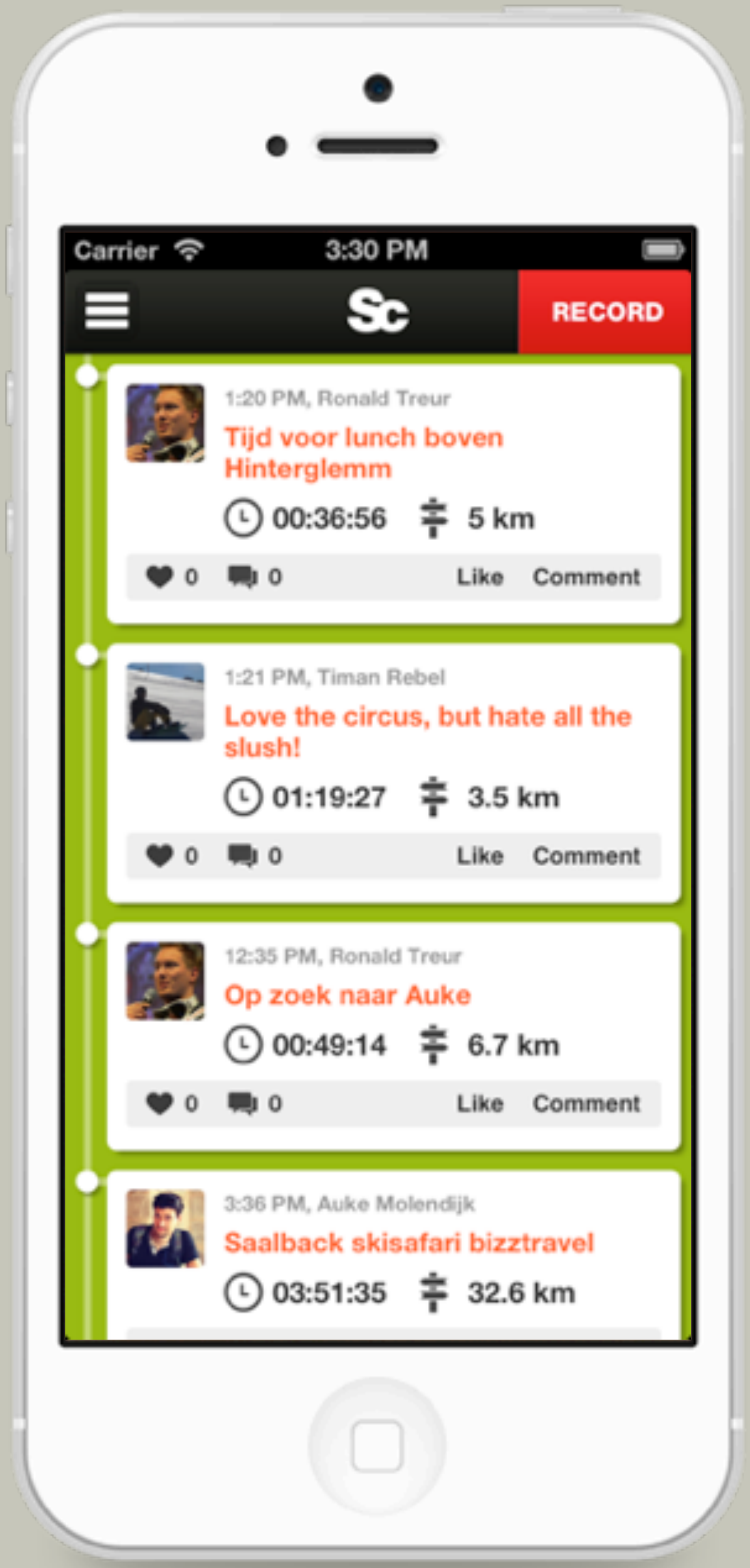
Join the Snowciety


Carrier
3:25 PM
GPS
Recording
STOP
00:02:11
DURATION
0.84 KM
TOTAL DISTANCE
31.3 KM/H
MAX. SPEED SLOPE
23.5 KM/H
AVG. SPEED SLOPE

Ski tracker



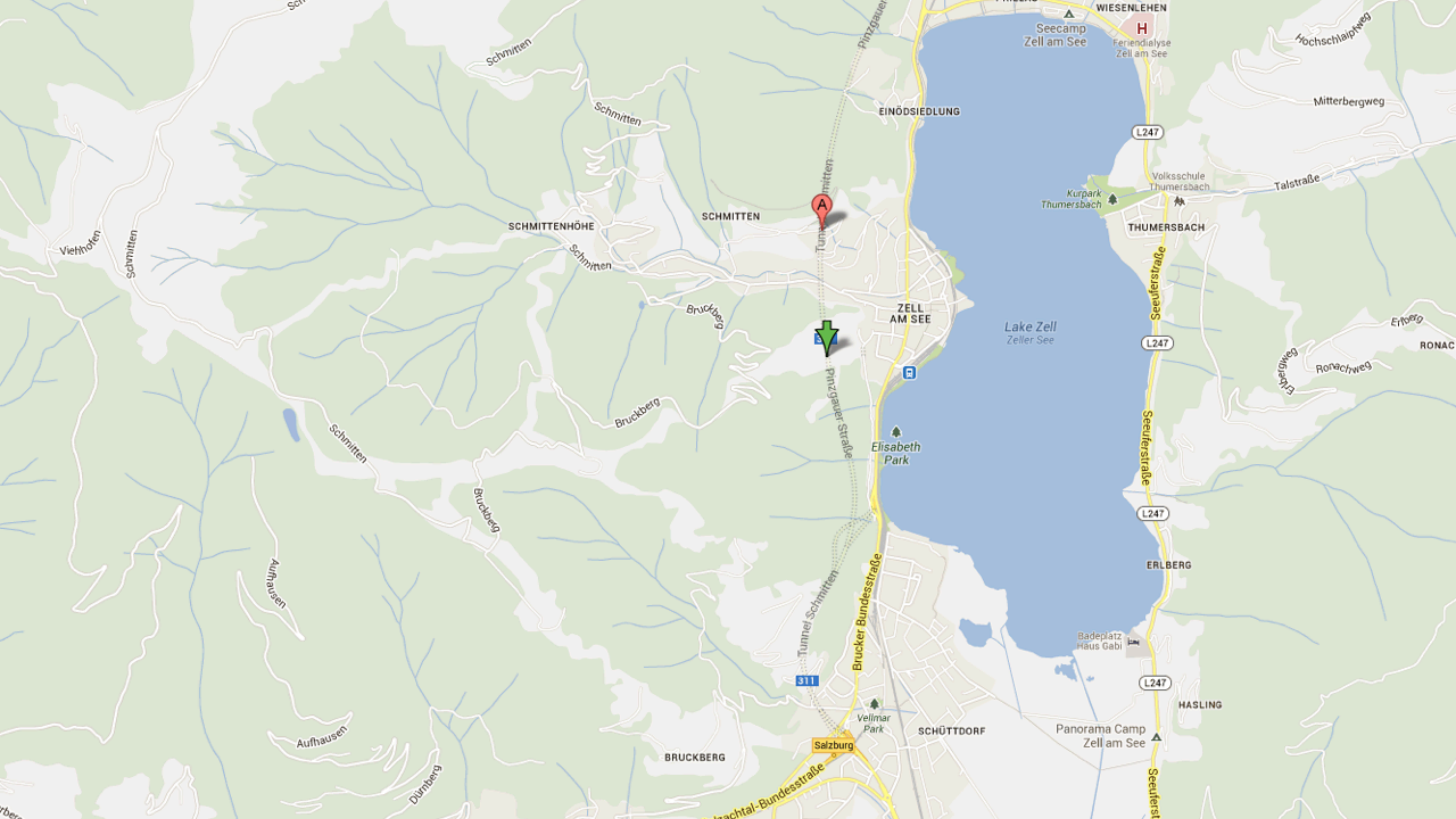
Friend finder



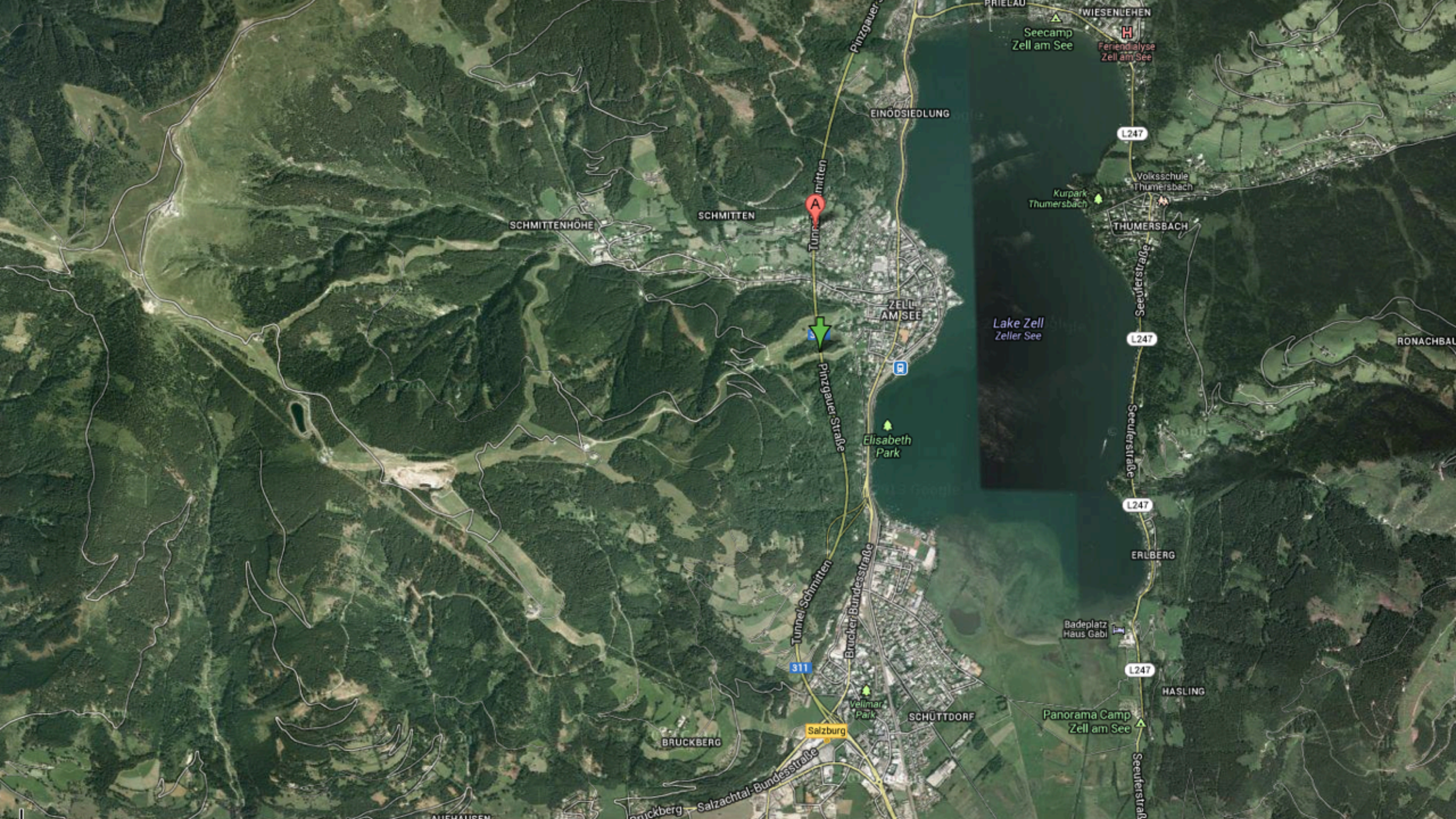
Share your skiing

Google Maps alternative

because they charge heavy users nowadays



WIESENLEHEN
Seecamp
Zell am See
Feriendialyse
Zell am See
Hochschlaipfweg
Schmitten
Pinzgauer
EINÖDSIEDLUNG
Mitterbergweg
Schmitten
L247
Volksschule
Thumersbach
Talstraße
Kurpark
Thumersbach
THUMERSBACH
SCHMITTEN
SCHMITTENHÖHE
Viehhofen
Schmitten
Schmitten
Bruckberg
ZELL
AM SEE
Lake Zell
Zeller See
Seeuferstraße
L247
Erlberg
Erlbergweg
Ronachweg
Pinzgauer Straße
Bruckberg
Schmitten
Elisabeth
Park
Seeuferstraße
L247
Bruckberg
ERLBERG
Aufhausen
Tunnel Schmitten
Brucker Bundesstraße
Badeplatz
Haus Gabi
L247
311
HASLING
Vellmar
Park
SCHÜTTDORF
Panorama Camp
Zell am See
Salzburg
BRUCKBERG
Aufhausen
Dürnberg

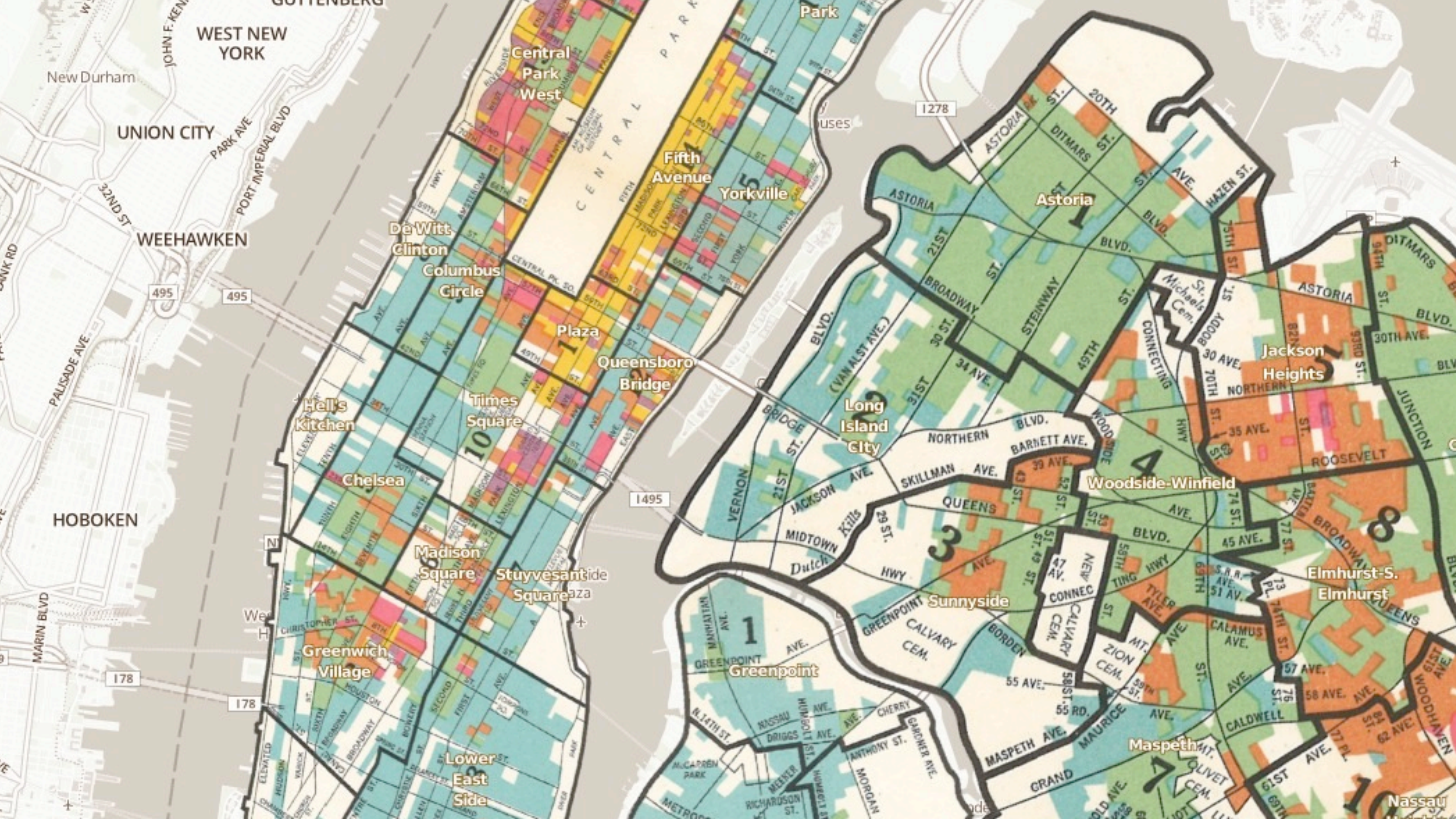

PRIELAU
WIESENLEHEN
Seecamp
Zell am See
Feriendialyse
Zell am See
EINÖDSIEDLUNG
L247
Volksschule
Thumersbach
Kurpark
Thumersbach
THUMERSBACH
SCHMITTEN
SCHMITTENHÖHE
ZELL
AM SEE
Lake Zell
Zeller See
Seeuferstraße
Pinzgauer Straße
Elisabeth
Park
L247
L247
ERLBERG
Tunnel Schmitten
Brucker Bundesstraße
Badeplatz
Haus Gabi
311
L247
HASLING
Vellmar
Park
SCHÜTTDORF
Panorama Camp
Zell am See
Salzburg
BRUCKBERG
Salzachtal-Bundesstraße

Kitzsteinhorn 3203 m
Gipfelstation 3029 m
Glocknerkanzel Panorama-Tunnel
GLETSCHERPLATEAU 2900 m:
Gletscher-Shuttle, Magnetköpfllifte
Glacier Park
Großglockner 3798 m
Bella Vista
Terrasse Gipfelstation
Kitz- & Keeslifte
Maurergletscherlifte
Schmiedingerlifte
Nationalpark Hohe Tauern
Großvenediger 3674 m
Maurerkogel 2074 m
ALPINCENTER 2452 m:
Big Apple, Skyline, Parasol
InfoService, Internet@free
Gipfelbahn
Sonnenkarbahnen
Gratbahn
Gratlift
Kristallbahn
Gletschermühle
Krefelder Hütte
Bundessport- und Freizeitzentrum
Central Park
Easy Park
Halfpipe
Volvo XC Ice Camp
Hochgebirgs-stauseen Glockner–Kaprun
LANGWIED 1978 m:
Häuslalm
Gletscherjet 2
Langwiedbahn
Maiskogel 1675 m
Glocknerblick
Sauloch alm
Maiskogelalm
Gletscherjet 1
Panoramabahn
Gletscherbahnen
Maiskogelbahn
Stangerbauer
Almbahn
Angerlift
Kitz900
Weißsteinalm
Unteraigen
Panoramabahn Schaufelberg
Railgarden
Lechnerberglifte
Rodelbahn
Burg Kaprun
Hallenbad/Sauna
Langlaufzentrum
Schloss-(Nacht-)Loipe
Pinzga-Loipe
Westloipe
Kaprun
Piesendorf >
< Bruck-Fusch
ORTSKASSA:
Tickets
Flugplatz
Schüttdorf
Fischhornloipe
Tennishalle
Langlaufzentrum
AREITBAHN I Talstation
Cabrio Bar Restaurant
Schmittentunnel
Schoberalm
Areitbahn I
Areitalm
Glocknerbahn
Glocknerhaus
Areitbahn II
Hirschkogel-Express
Gasthof Mittelstation 1320 m
Ebenbergalm
cityXpress
cityXpress Talstation
Zell am See
Schmittenhöhe 2000 m
AREITBAHN III Bergstation
Panorama
Areitbahn III
Breiteckbahn
Breiteckalm
trassXpress
Schmittenhöhebahn
Hoch-zelleralm
SCHMITTEN Bergstation
Schmitten
Elisabeth-Kapelle
Berg-hotel
Kapellenbahn
Kettingbahn
Pinzgauer Hütte
Kettingalm
Bome Park Schmitten
Sonnengratbahn
Sonnkogelbahn
SONNKOGEL Bergstation
Sonnkogel
Fotopoint
Blaickner's Sonnalm
Schmied-hofalm
Hochmaisbahn
Sonnenalm 1400 m
Sonnenalmbahn
Berghotel Jaga-Alm
Kettergraben
SCHMITTENHÖHE & SONNENALM Talstation
Hütterl
Schmittentunnel
Kongress-Center
Hallenbad-Sauna Eishalle
Hotel Bellevue bis Camping Süd
69 bis 72
46 bis 49
Maishofen >
leichte Abfahrt / beginner slope
mittlere Abfahrt / intermediate slope
schwere Abfahrt / expert slope
Freerideroute / freeride route
Langlaufloipe / cross-country trail
Nachtloipe / lighted night trail
Winterwanderweg / winter hiking trail
Skischule / ski school
Salomon-Station
Intersport Service-Network
Info Tourismus
Info Service
sitour
OBERLEITER

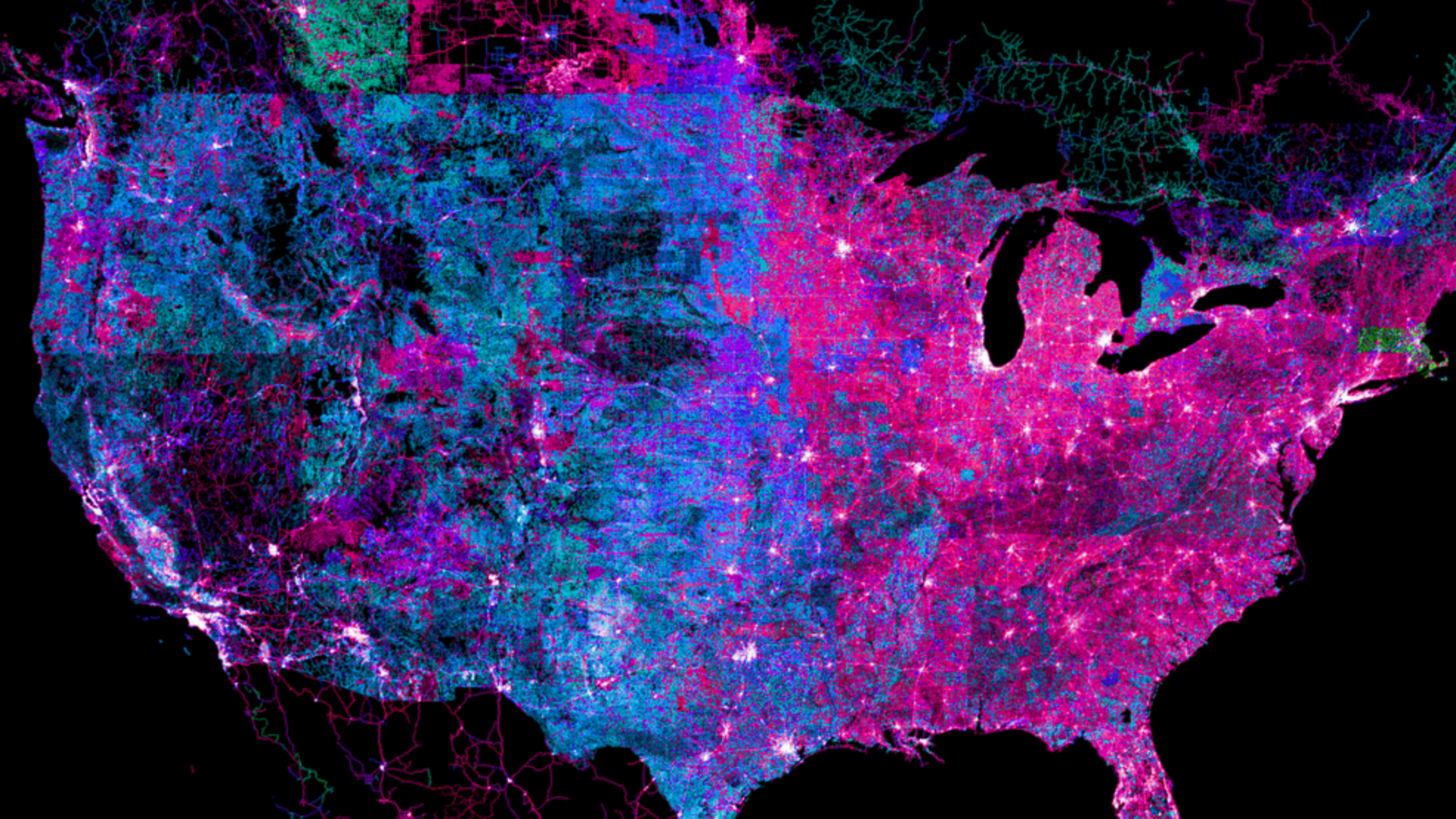
Thumersbach
Zell am See
Schmittenhöhebahn
trassXpress
City Xpress
Hirschkogel-Express
Areitbahn III
Areitbahn II
Areitbahn I
Glocknerbahn
Sonnkogelbahn

Freedom

create radical designs



WEST NEW YORK
New Durham
UNION CITY
WEEHAWKEN
HOBOKEN
Central Park West
Fifth Avenue
Yorkville
De Witt Clinton
Columbus Circle
Plaza
Queensboro Bridge
Hell's Kitchen
Times Square
Chelsea
Madison Square
Stuyvesant Square
Greenwich Village
Lower East Side
Astoria
Long Island City
Jackson Heights
Woodside-Winfield
Sunnyside
Elmhurst-S. Elmhurst
Greenpoint
Maspeth
Nassau
CENTRAL PARK



It is all Open Source

even the data from NASA

data

database

renderer

http server

client

OpenStreetMap

wikipedia for maps

SRTM

Shuttle Radar Topography Mission

Lots of data

our cluster contains roughly 3,5 terabyte of unrendered data

350 GB of OSM

PostgreSQL with PostGIS plugin


3 TB of GEOTIFF

Mapnik

renderer

```
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    <StyleName>pistes-labels</StyleName>
    <Datasource>
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       <Parameter name="table"><![CDATA[(select  "piste:type" as type, "piste:difficulty" as difficulty, name, ref,  width, oneway, way from planet_osm_line where "piste:type" = 'downhill' order by z_order) as pistes]]></Parameter>
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       <Parameter name="dbname"><![CDATA[gis]]></Parameter>
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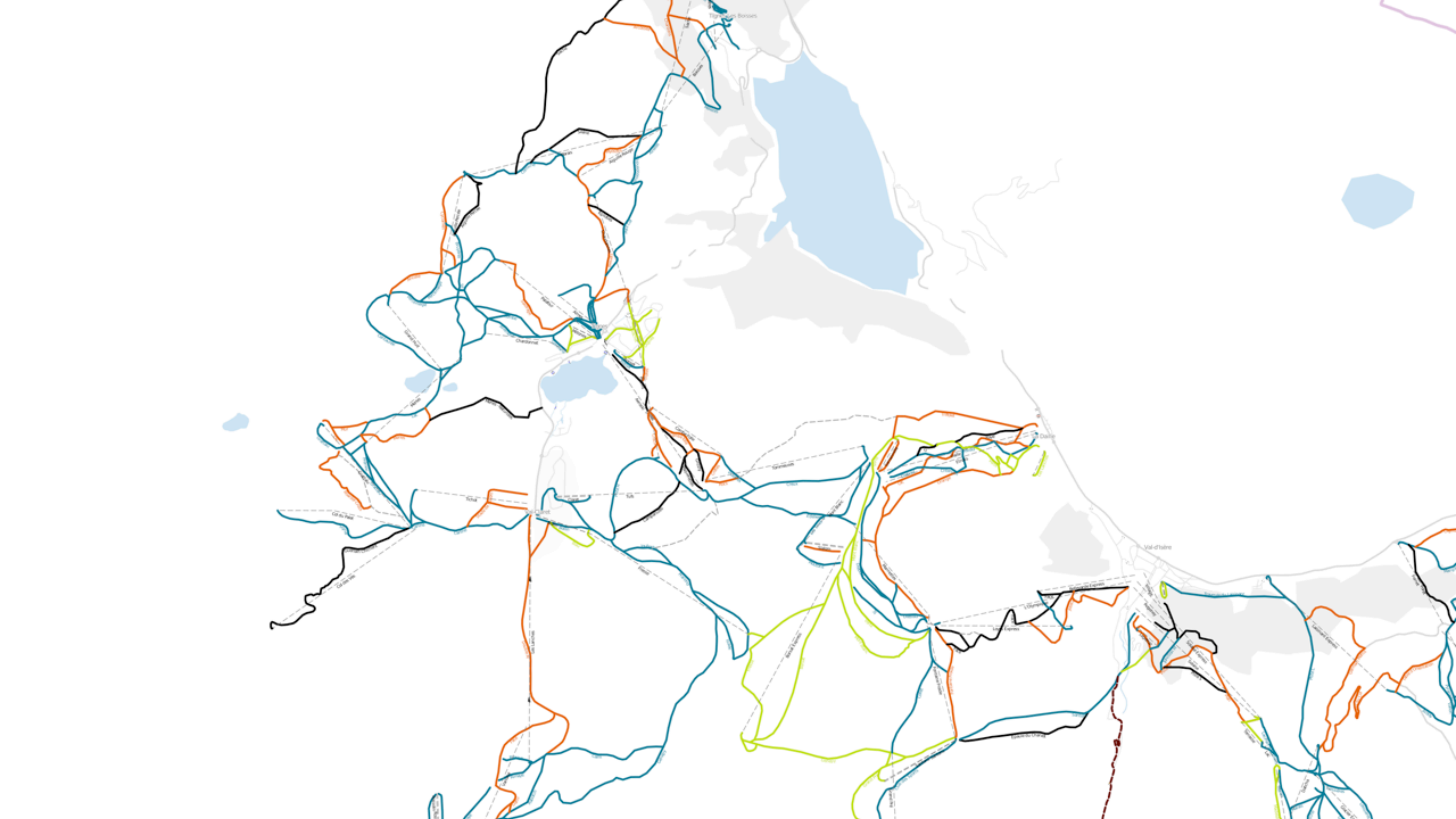
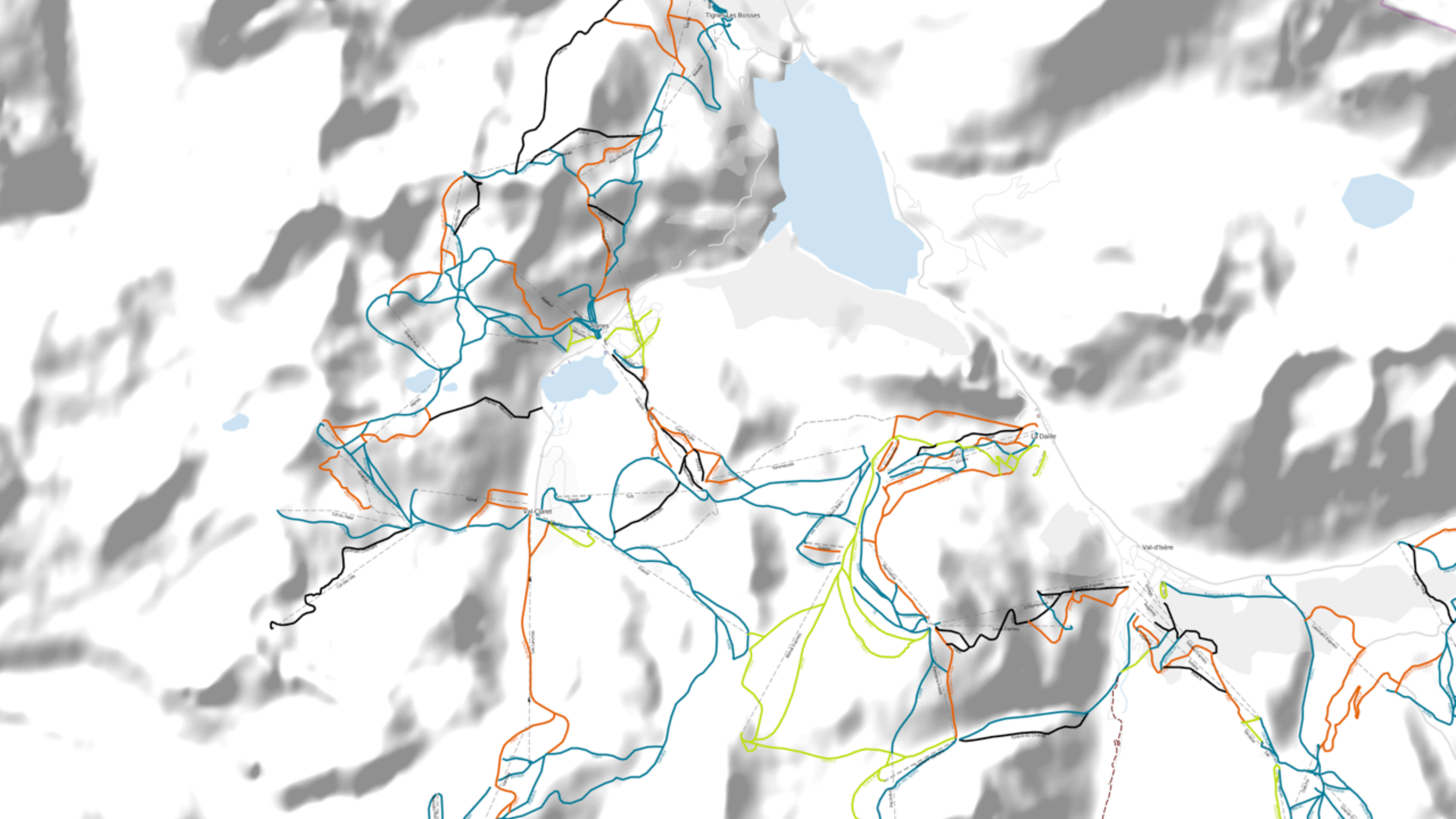
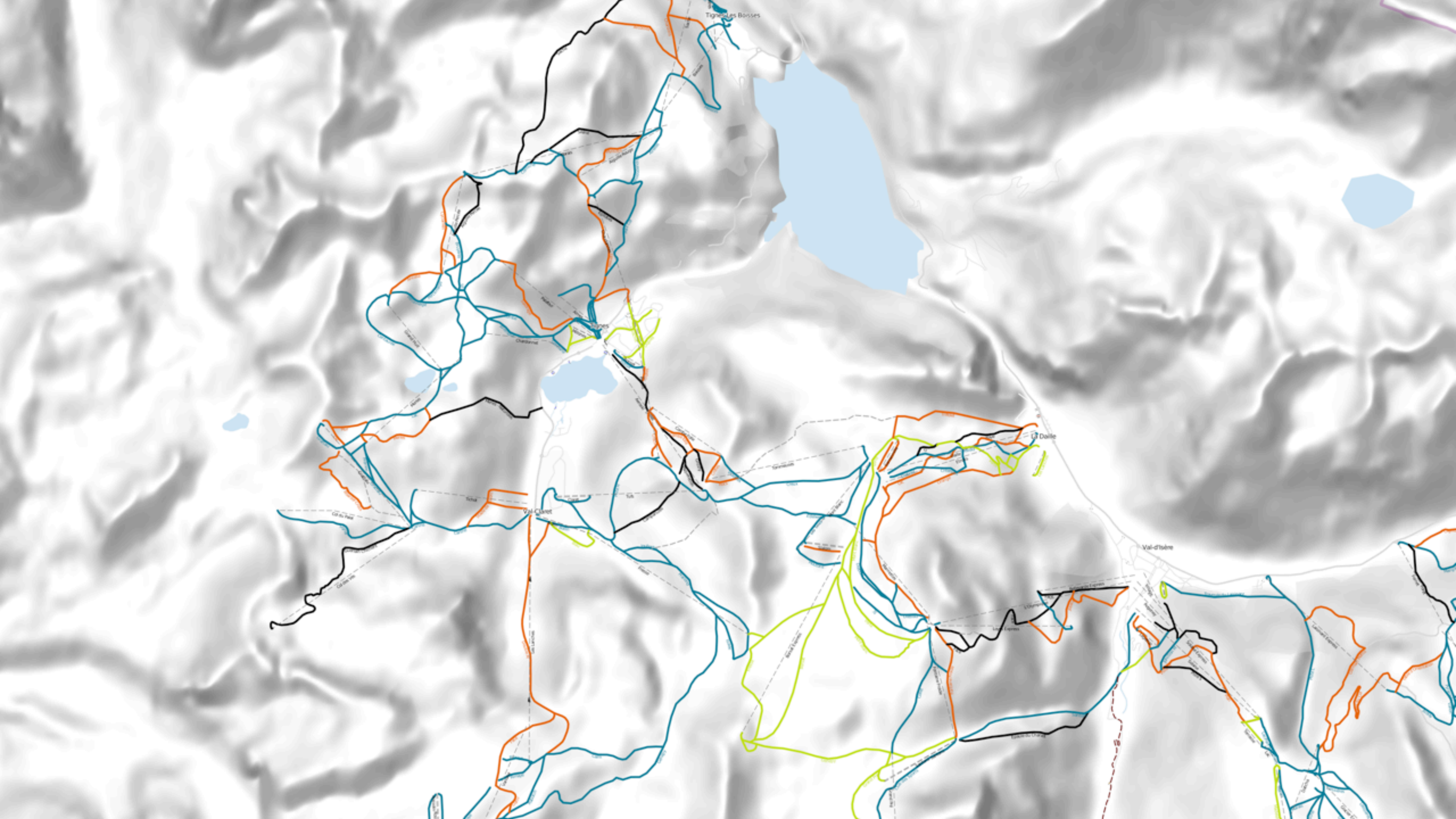
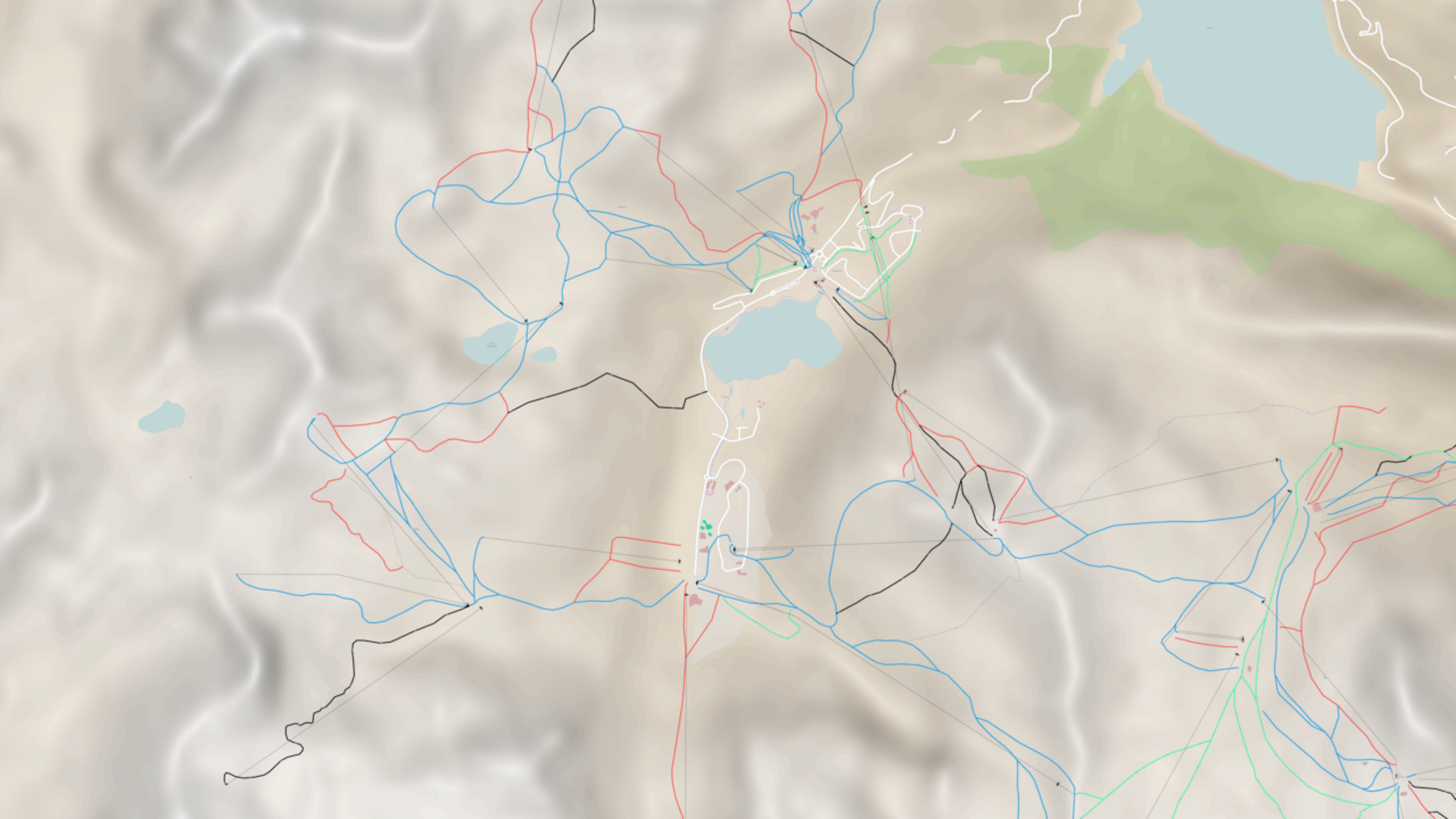
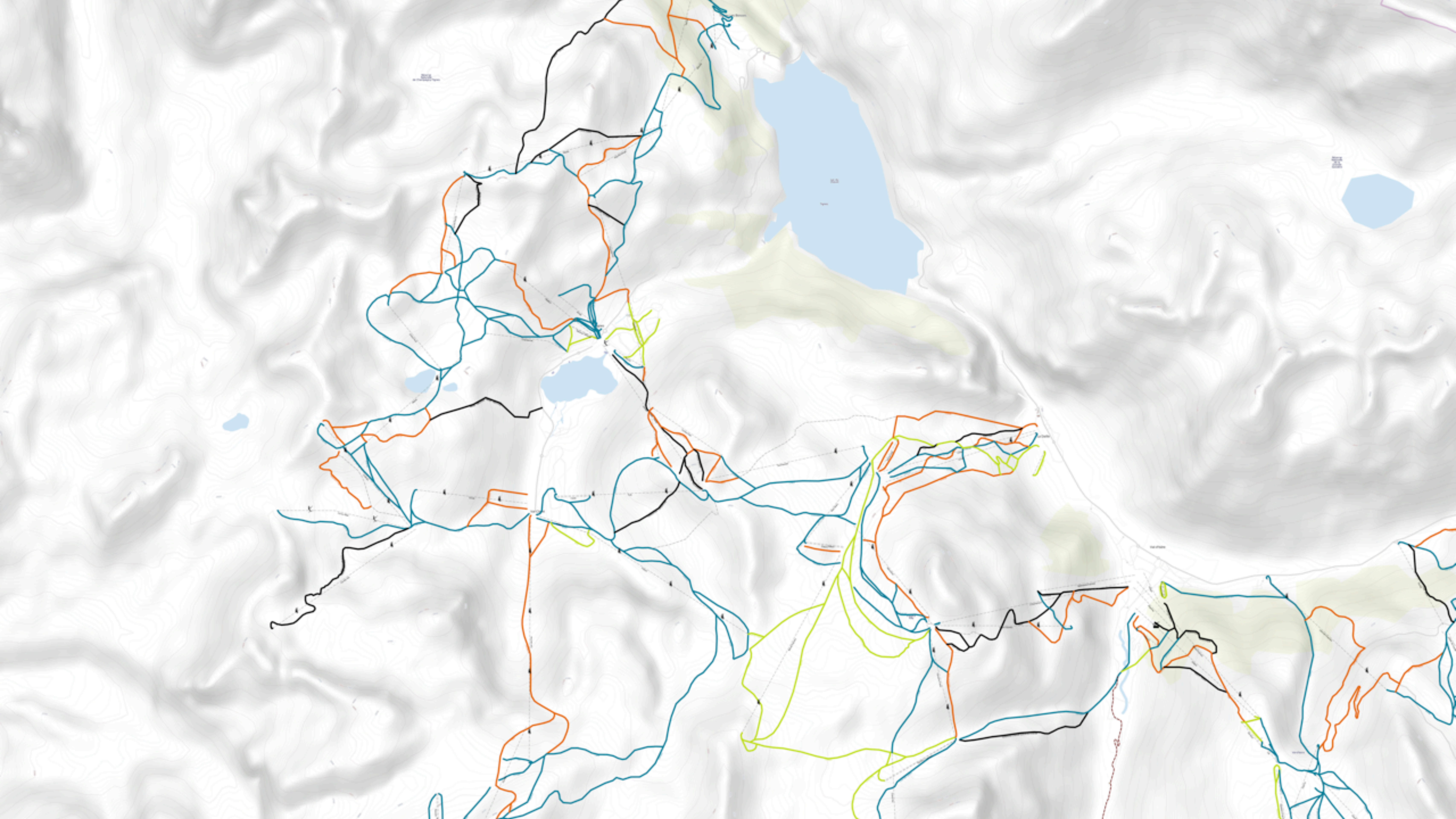
Kettingalmbahn
Sonnkogelbahn
Sonnkogelbahn
Hochmaisbahn
Sonnenalmbahn
Schmittenhöhebahn
trassXpress
trassXpress
City Xpress
City Xpress
Hirschkogel-Express
Areitbahn III
Areitbahn III
Glocknerbahn
Areitbahn II
Areitbahn II
Areitbahn I
Zell am See
Thumersbach

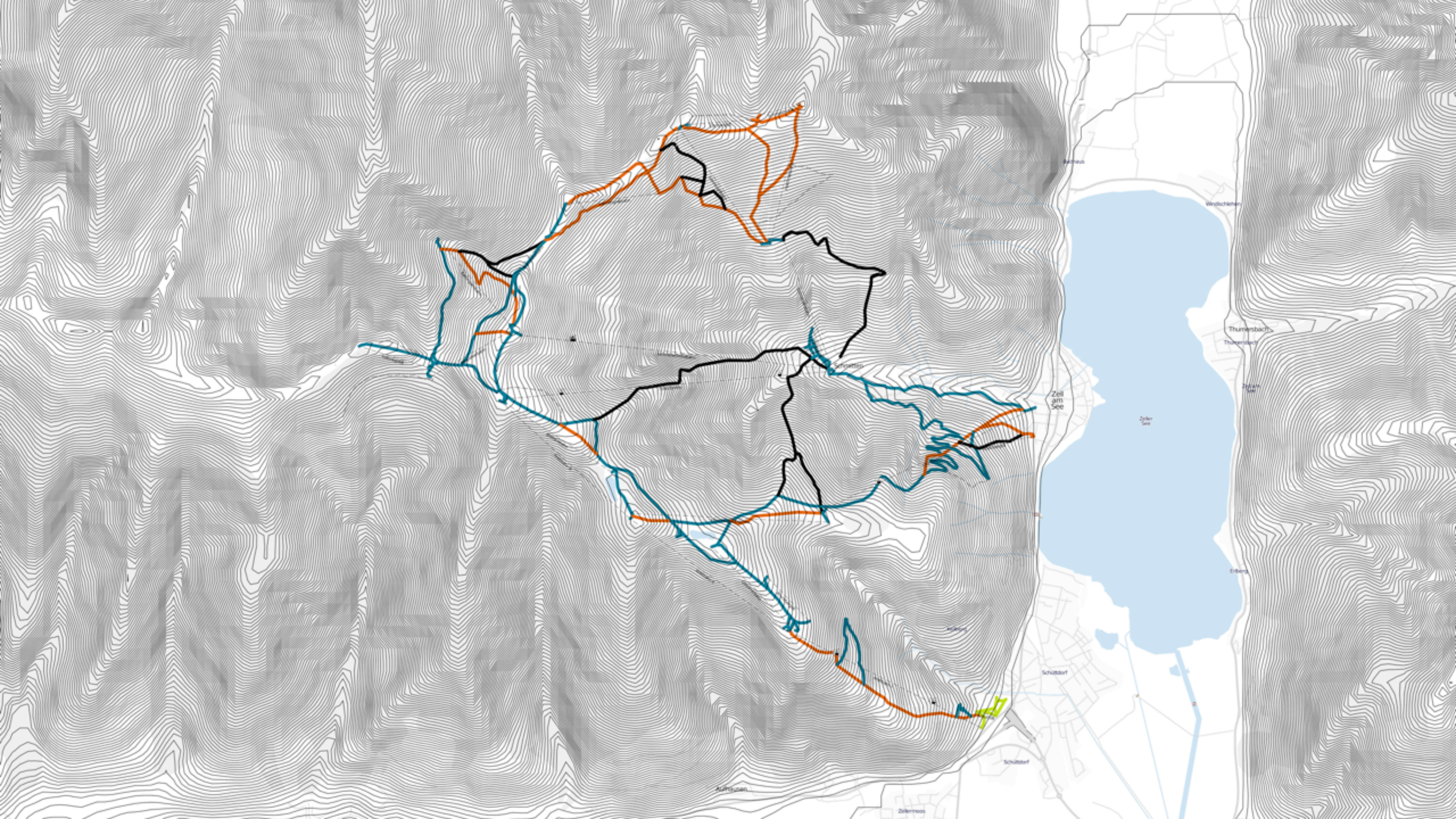

Val-d'Isère


Tignes Les Boisses
La Daille
Val Claret
Val-d'Isère


Tignes-Les Boisses
Val-Claret
La Daille
Val-d'Isère

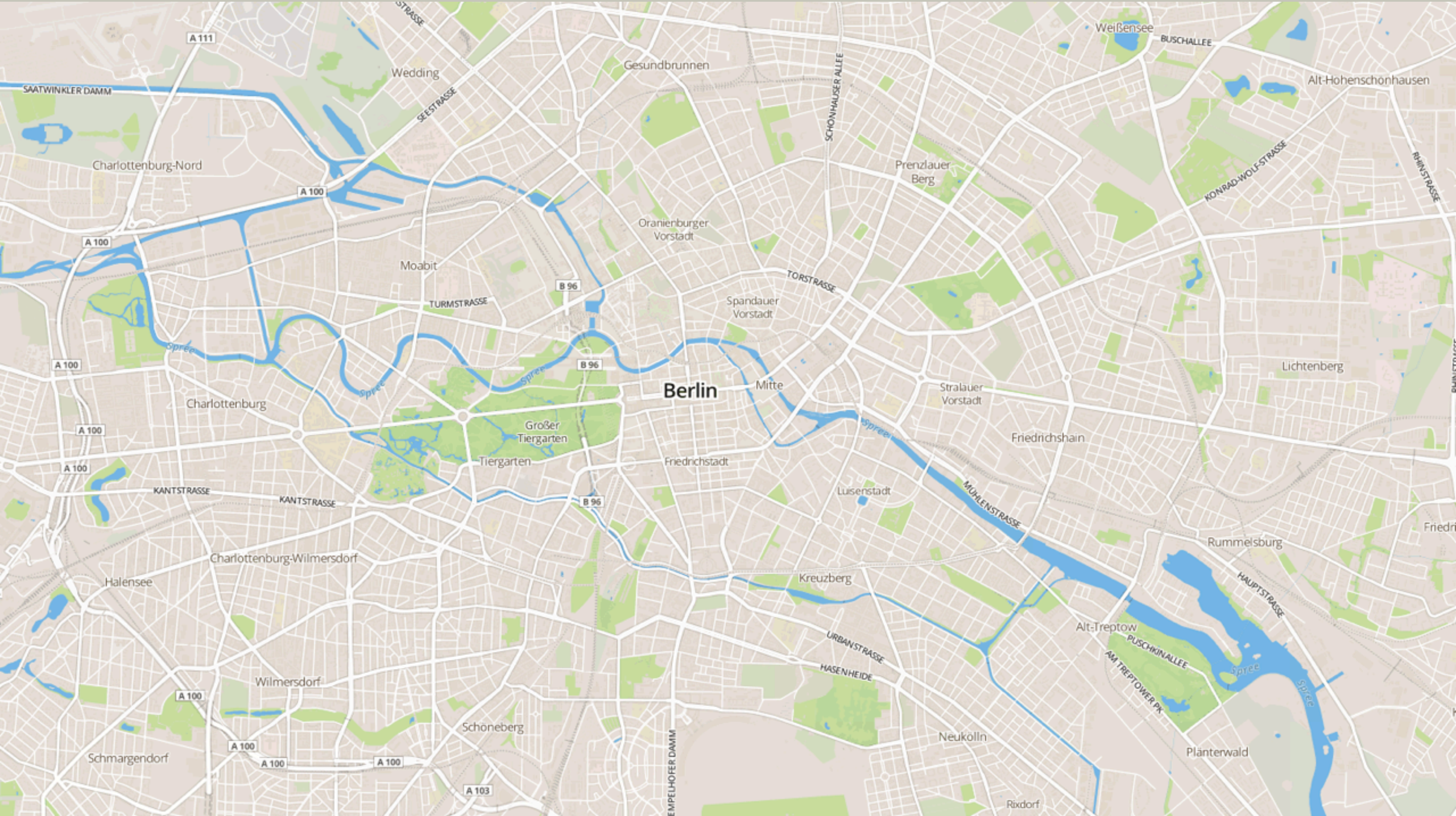






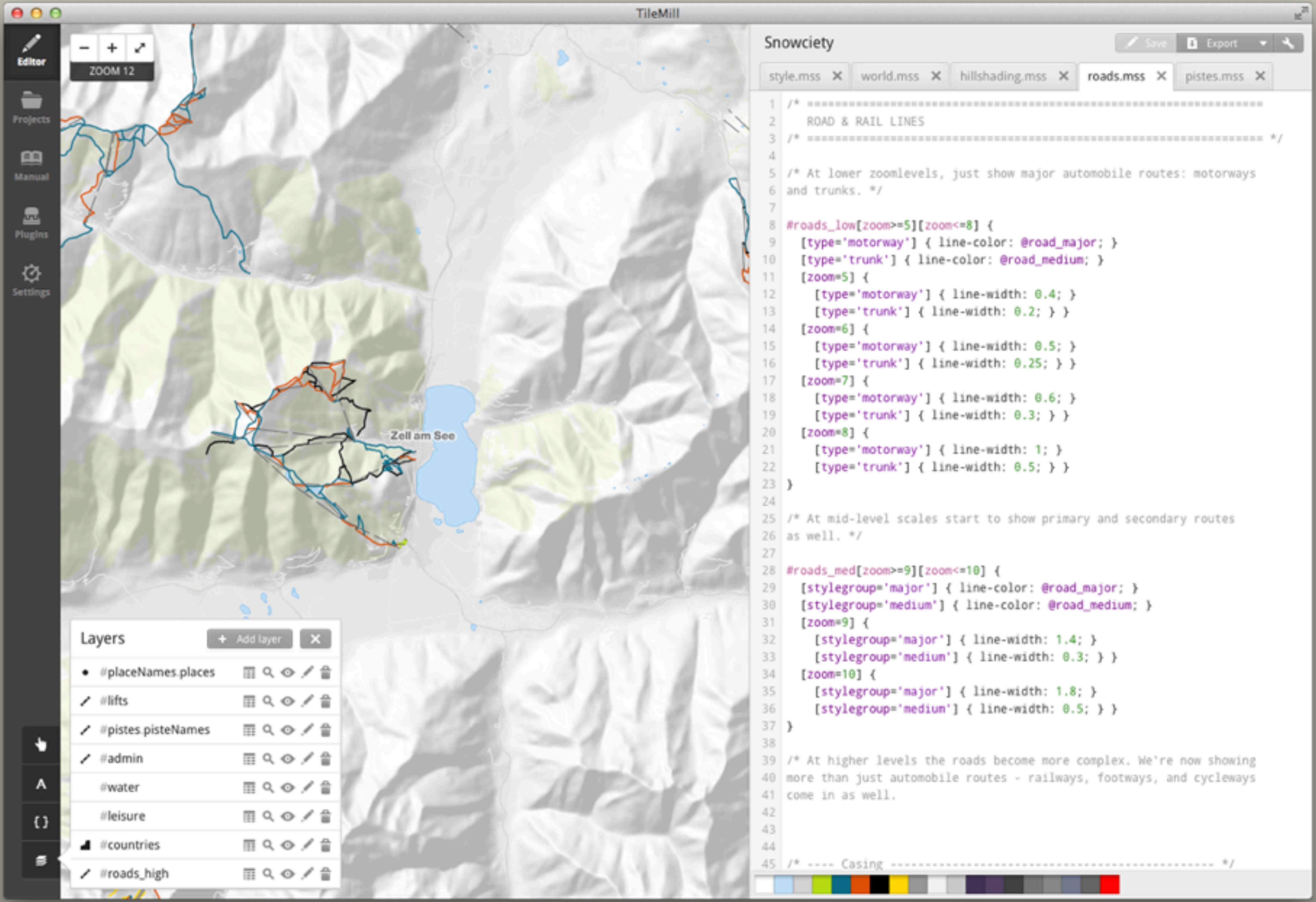
Windschläfen
Thumersbach
Zell
am
See
Zeller
See
Schüttdorf
Schüttdorf
Zellermoos

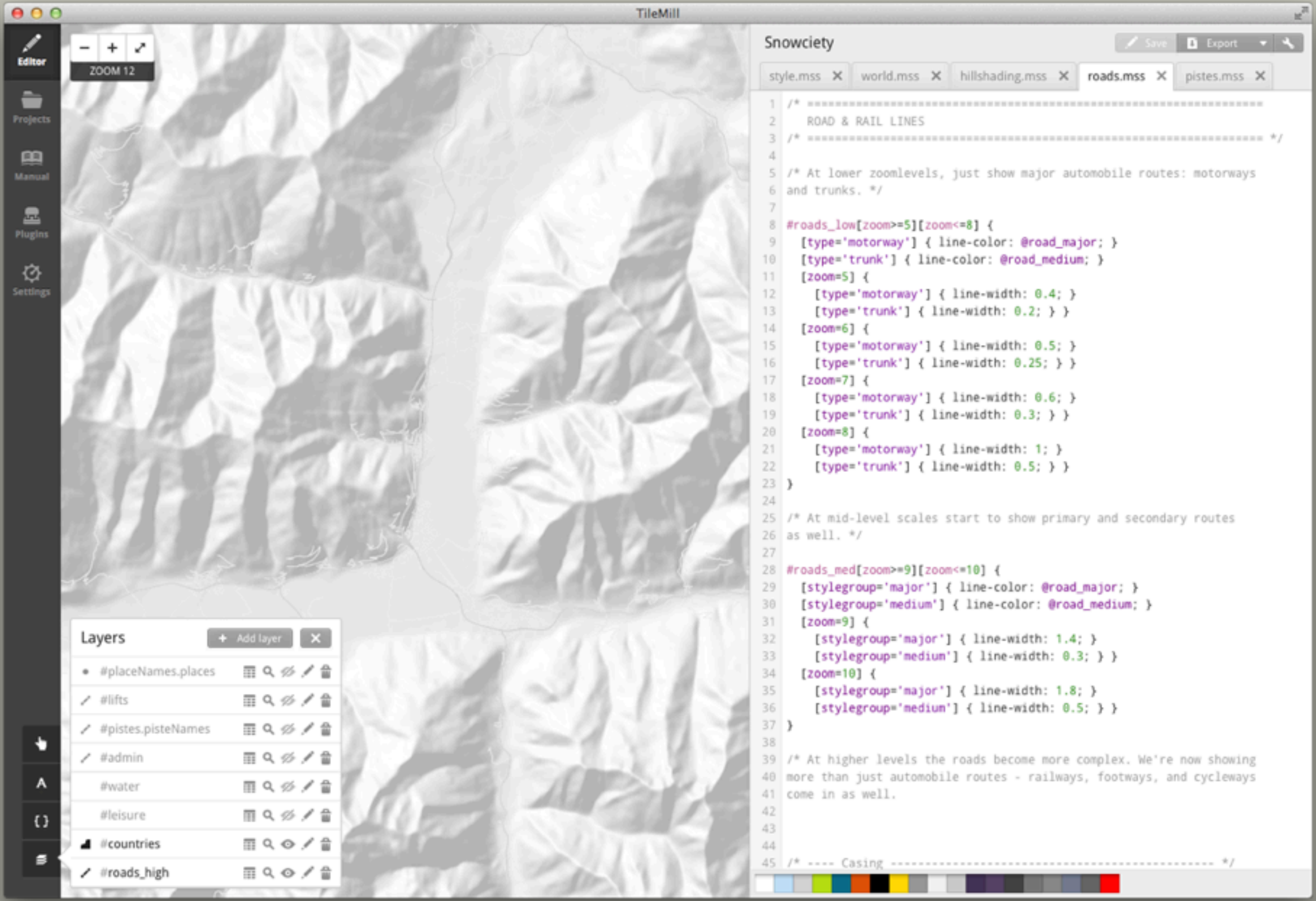
Osthanglift
Sonnengratbahn
Hochmaisbahn
Sonnenalmbahn
Kettingalmbahn
Hahnkopflift
Kapellenbahn
Schmittenhöhebahn
Schmitten
Zell
am
See
Thumersbach
Breiteckbahn
Areitbahn III
Areitbahn II
Areitbahn I
Glocknerbahn
Ebenberglift
Aufhausen


Berlin
Wedding
Gesundbrunnen
Weißensee
BUSCHALLEE
Alt-Hohenschönhausen
SAATWINKLER DAMM
A 111
SEESTRASSE
SCHÖNHAUSER ALLEE
Charlottenburg-Nord
A 100
Prenzlauer Berg
KONRAD-WOLF-STRASSE
RHINSTRASSE
Oranienburger Vorstadt
Moabit
TORSTRASSE
B 96
TURMSTRASSE
Spandauer Vorstadt
Lichtenberg
Spree
Mitte
Stralauer Vorstadt
Charlottenburg
Großer Tiergarten
Friedrichshain
Tiergarten
Friedrichstadt
KANTSTRASSE
Luisenstadt
MÜHLENSTRASSE
Rummelsburg
Charlottenburg-Wilmersdorf
Halensee
Kreuzberg
HAUPTSTRASSE
Alt-Treptow
PUSCHKINALLEE
URBANSTRASSE
AM TREPTOWER PK
HASENHEIDE
Wilmersdorf
Schöneberg
Neukölln
Plänterwald
Schmargendorf
A 103
Rixdorf

MapBox

TileMill


TileMill
Editor
Projects
Manual
Plugins
Settings
ZOOM 12
Zell am See
Layers
Add layer
#placeNames.places
#lifts
#pistes.pisteNames
#admin
#water
#leisure
#countries
#roads_high
Snowciety
Save
Export
style.mss
world.mss
hillshading.mss
roads.mss
pistes.mss
/* ==
   ROAD & RAIL LINES
/* == */
/* At lower zoomlevels, just show major automobile routes: motorways
and trunks. */
#roads_low[zoom>=5][zoom<=8] {
  [type='motorway'] { line-color: @road_major; }
  [type='trunk'] { line-color: @road_medium; }
  [zoom=5] {
    [type='motorway'] { line-width: 0.4; }
    [type='trunk'] { line-width: 0.2; } }
  [zoom=6] {
    [type='motorway'] { line-width: 0.5; }
    [type='trunk'] { line-width: 0.25; } }
  [zoom=7] {
    [type='motorway'] { line-width: 0.6; }
    [type='trunk'] { line-width: 0.3; } }
  [zoom=8] {
    [type='motorway'] { line-width: 1; }
    [type='trunk'] { line-width: 0.5; } }
}
/* At mid-level scales start to show primary and secondary routes
as well. */
#roads_med[zoom>=9][zoom<=10] {
  [stylegroup='major'] { line-color: @road_major; }
  [stylegroup='medium'] { line-color: @road_medium; }
  [zoom=9] {
    [stylegroup='major'] { line-width: 1.4; }
    [stylegroup='medium'] { line-width: 0.3; } }
  [zoom=10] {
    [stylegroup='major'] { line-width: 1.8; }
    [stylegroup='medium'] { line-width: 0.5; } }
}
/* At higher levels the roads become more complex. We're now showing
more than just automobile routes - railways, footways, and cycleways
come in as well.
/* ---- Casing -- */


TileMill
Editor
Projects
Manual
Plugins
Settings
ZOOM 12
Snowciety
Save
Export
style.mss
world.mss
hillshading.mss
roads.mss
pistes.mss
/* ==
ROAD & RAIL LINES
/* == */
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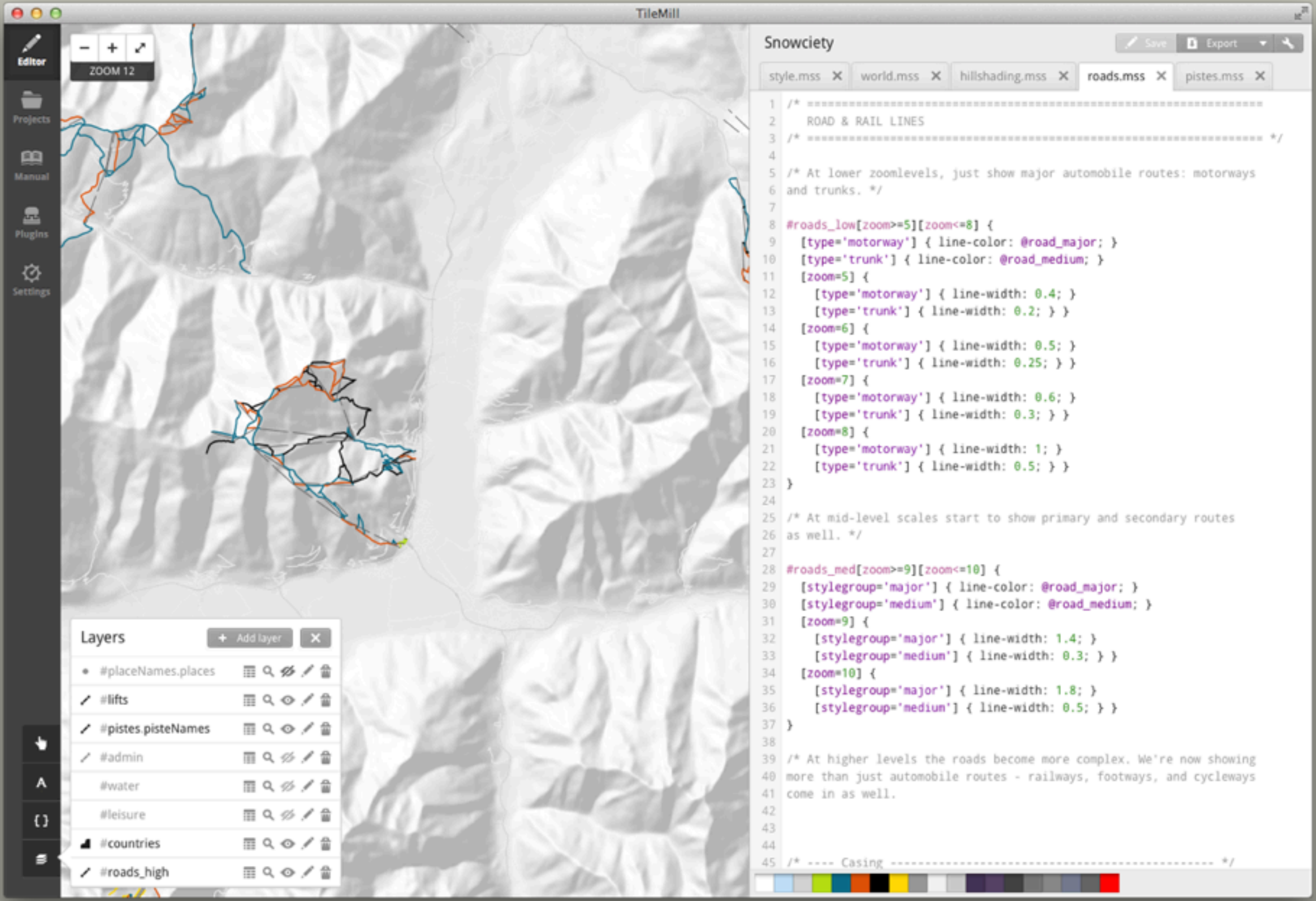
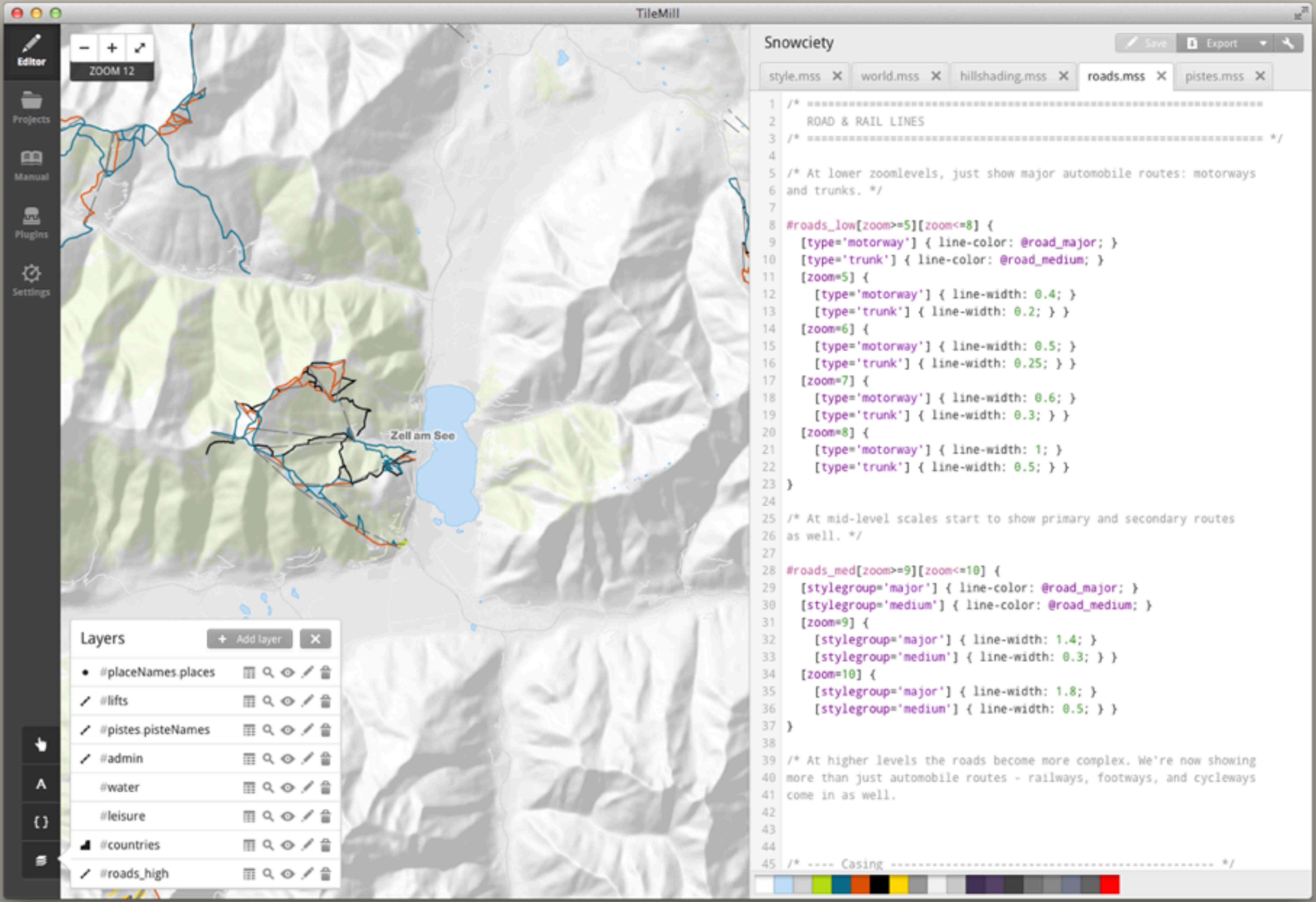
[type='trunk'] { line-color: @road_medium; }
[zoom=5] {
[type='motorway'] { line-width: 0.4; }
[type='trunk'] { line-width: 0.2; } }
[zoom=6] {
[type='motorway'] { line-width: 0.5; }
[type='trunk'] { line-width: 0.25; } }
[zoom=7] {
[type='motorway'] { line-width: 0.6; }
[type='trunk'] { line-width: 0.3; } }
[zoom=8] {
[type='motorway'] { line-width: 1; }
[type='trunk'] { line-width: 0.5; } }
}
/* At mid-level scales start to show primary and secondary routes
as well. */
#roads_med[zoom>=9][zoom<=10] {
[stylegroup='major'] { line-color: @road_major; }
[stylegroup='medium'] { line-color: @road_medium; }
[zoom=9] {
[stylegroup='major'] { line-width: 1.4; }
[stylegroup='medium'] { line-width: 0.3; } }
[zoom=10] {
[stylegroup='major'] { line-width: 1.8; }
[stylegroup='medium'] { line-width: 0.5; } }
}
/* At higher levels the roads become more complex. We're now showing
more than just automobile routes - railways, footways, and cycleways
come in as well.
/* ---- Casing -- */
Layers
Add layer
#placeNames.places
#lifts
#pistes.pisteNames
#admin
#water
#leisure
#countries
#roads_high


TileMill
Editor
Projects
Manual
Plugins
Settings
ZOOM 12
Snowciety
Save
Export
style.mss
world.mss
hillshading.mss
roads.mss
pistes.mss
/* ==
ROAD & RAIL LINES
/* == */
/* At lower zoomlevels, just show major automobile routes: motorways
and trunks. */
#roads_low[zoom>=5][zoom<=8] {
[type='motorway'] { line-color: @road_major; }
[type='trunk'] { line-color: @road_medium; }
[zoom=5] {
[type='motorway'] { line-width: 0.4; }
[type='trunk'] { line-width: 0.2; } }
[zoom=6] {
[type='motorway'] { line-width: 0.5; }
[type='trunk'] { line-width: 0.25; } }
[zoom=7] {
[type='motorway'] { line-width: 0.6; }
[type='trunk'] { line-width: 0.3; } }
[zoom=8] {
[type='motorway'] { line-width: 1; }
[type='trunk'] { line-width: 0.5; } }
}
/* At mid-level scales start to show primary and secondary routes
as well. */
#roads_med[zoom>=9][zoom<=10] {
[stylegroup='major'] { line-color: @road_major; }
[stylegroup='medium'] { line-color: @road_medium; }
[zoom=9] {
[stylegroup='major'] { line-width: 1.4; }
[stylegroup='medium'] { line-width: 0.3; } }
[zoom=10] {
[stylegroup='major'] { line-width: 1.8; }
[stylegroup='medium'] { line-width: 0.5; } }
}
/* At higher levels the roads become more complex. We're now showing
more than just automobile routes - railways, footways, and cycleways
come in as well.
/* ---- Casing -- */
Layers
Add layer
#placeNames.places
#lifts
#pistes.pisteNames
#admin
#water
#leisure
#countries
#roads_high



TileMill
Editor
Projects
Manual
Plugins
Settings
ZOOM 12
Zell am See
Layers
+ Add layer
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#lifts
#pistes.pisteNames
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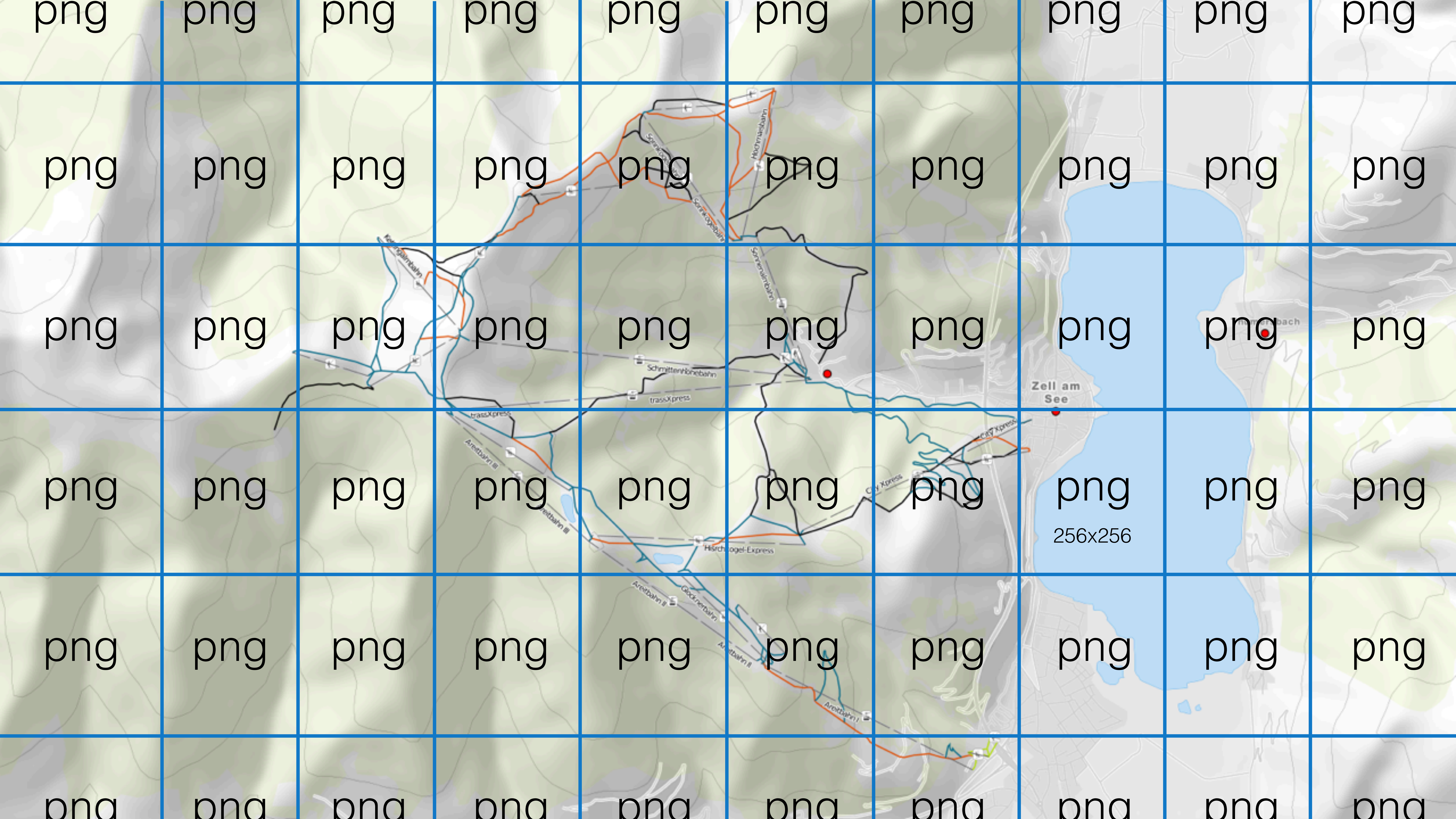
Kettingalmbahn
Sonnkogelbahn
Sonnkogelbahn
Hochmaisbahn
Sonnenalmbahn
Schmittenhöhebahn
trassXpress
trassXpress
City Xpress
City Xpress
Hirschkogel-Express
Areitbahn III
Areitbahn III
Glocknerbahn
Areitbahn II
Areitbahn II
Areitbahn I
Zell am See
Thumersbach



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256x256
Zell am See
Schmittenhöhebahn
trassXpress
trassXpress
Hirschkogel-Express
City Xpress
City Xpress
Areitbahn I
Areitbahn II
Areitbahn III
Glocknerbahn
Sonnenalmbahn
Hochmaisbahn

Not only server-side

also client-side library to interact with map

An Open-Source JavaScript Library for Mobile-Friendly Interactive Maps

Apache httpd

No, not really the chopper

Tile Stache

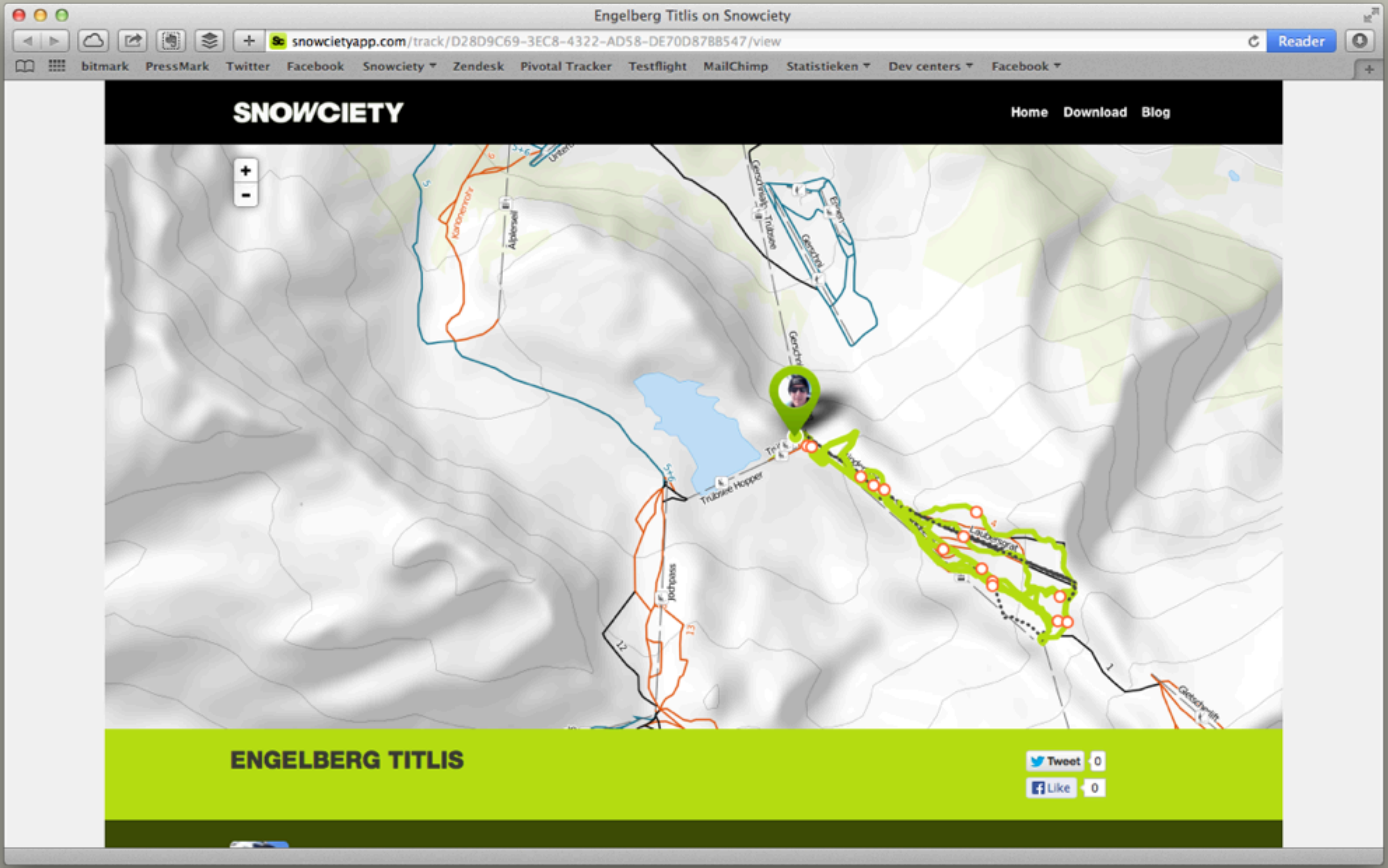
Translating Apache requests into Mapnik render commands

Mapnik

the renderer from before

Caching

Memcache, Disk, S3


Engelberg Titlis on Snowciety
snowcietyapp.com/track/D28D9C69-3EC8-4322-AD58-DE70D87B8547/view
Reader
bitmark
PressMark
Twitter
Facebook
Snowciety
Zendesk
Pivotal Tracker
Testflight
MailChimp
Statistieken
Dev centers
Facebook
SNOWCIETY
Home
Download
Blog
Trübsee Hopper
Jochpass
ENGELBERG TITLIS
Tweet
0
Like
0

Importing data

takes a looooooooooooooooooooooooooooooooooooooong time

25GB

gzipped xml file

and you know how well plain text can be gzipped

file is roughly 250GB unzipped

powered by amazon web services

M1 Large Instance

7.5 GiB of memory, 4 EC2 Compute Units

3 weeks and counting :-|

High-Memory Quadruple Extra Large Instance

68.4 GB of memory, 26 EC2 Compute Units, 24 EBS blocks RAID 1

$1.640 per Hour = $ 1180 / month

29 hours!

Dedicated hardware

68 GB of memory, 8 Cores, 1 SATA disk
$ 700 / month

10 hours

Macbook Pro

16 GB of Memory, SSD

8.5 hours

it is all about lots of memory and lots and lots of IO speed and that was just OSM!

SRTM

Shuttle Radar Topography Mission

about a minute

per 1” x 1” file

from -180,0 to 180,90

28.800 files

20 days later

we were done importing


112

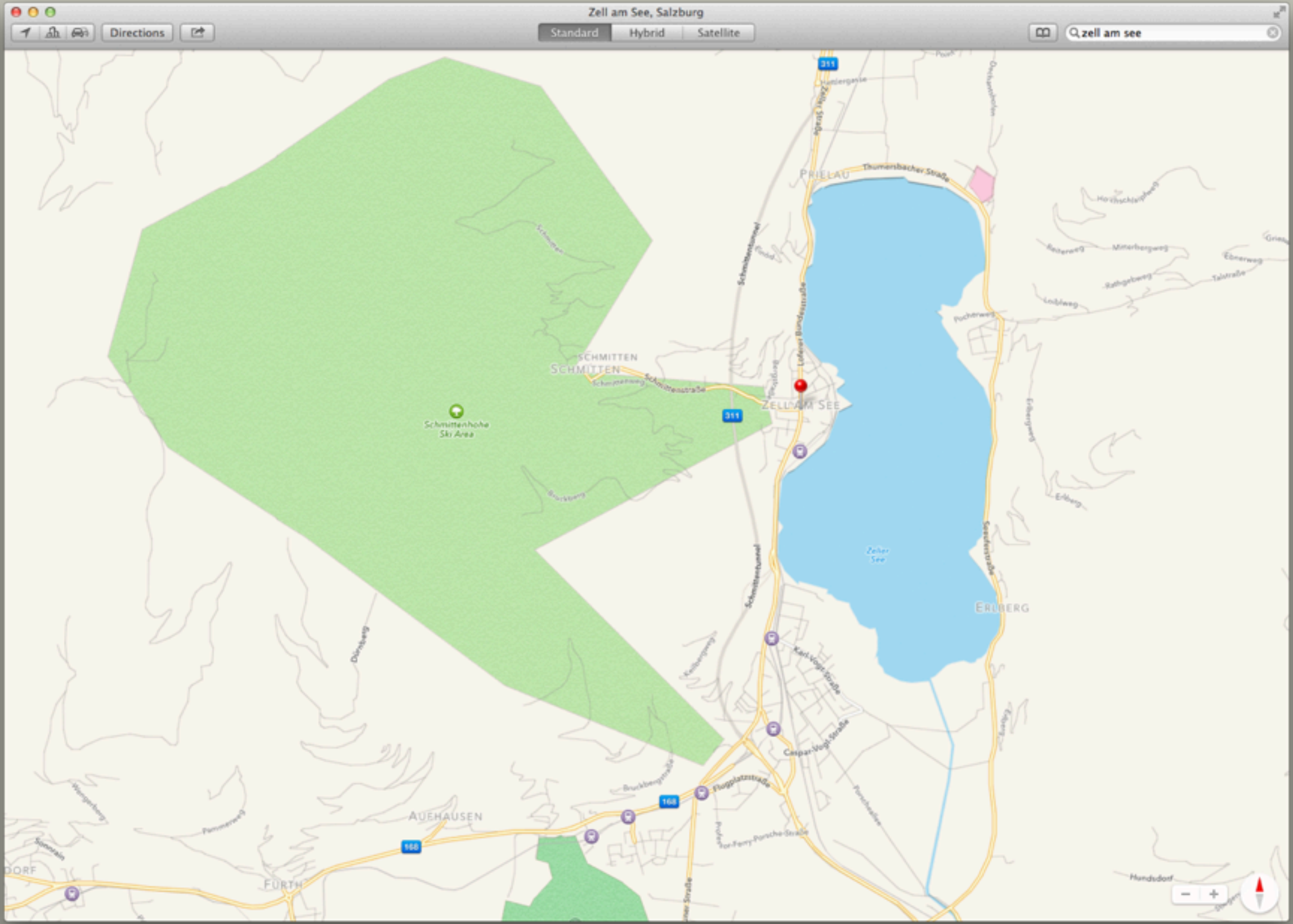
So now you know

how it is made

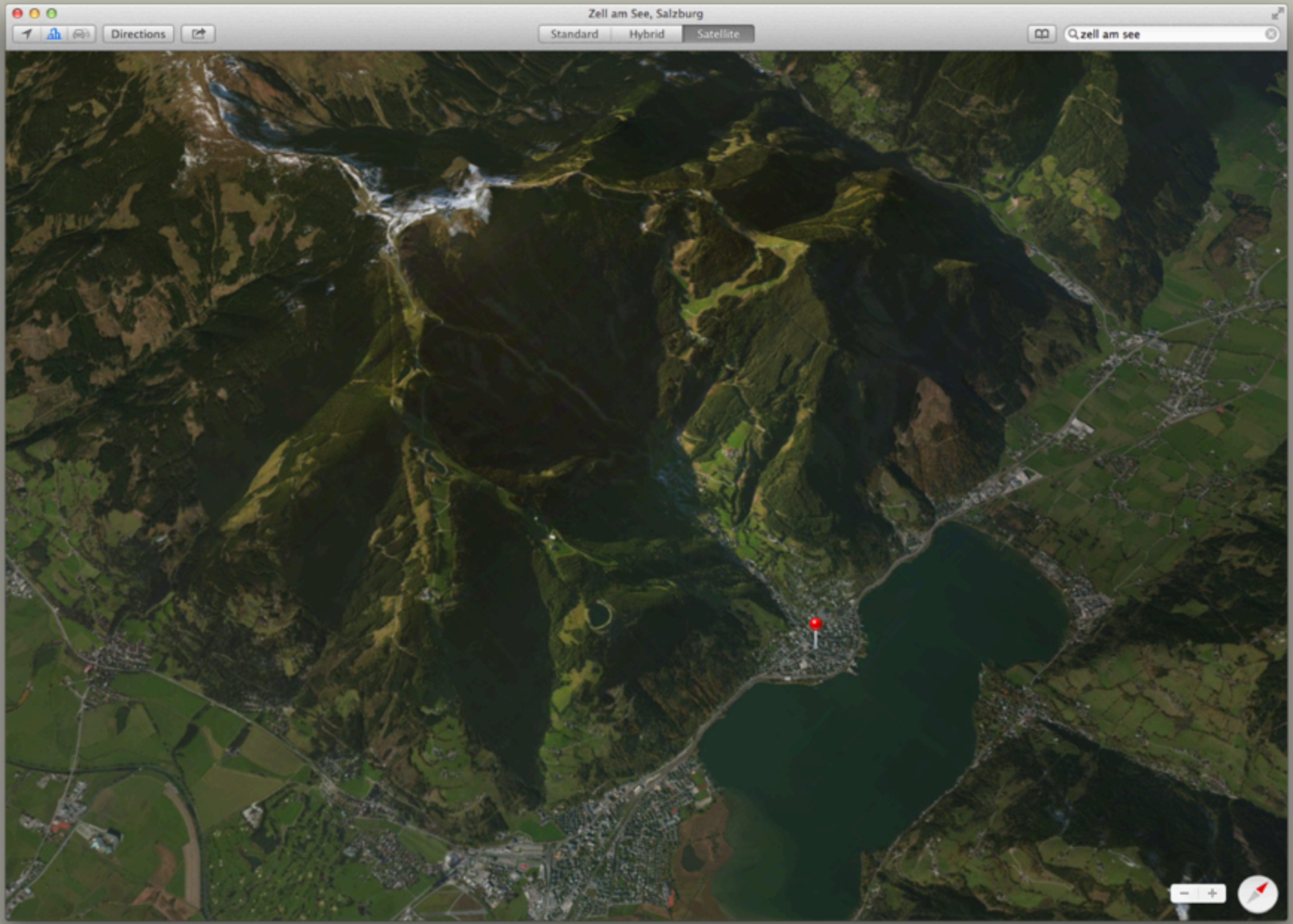
Future?

More sources, better maps, and..

Vector maps!



Zell am See, Salzburg
Directions
Standard
Hybrid
Satellite
zell am see
311
PRIELAU
SCHMITTEN
ZELL AM SEE
Schmittenhöhe
Ski Area
Zeller
See
ERLBERG
AUEHAUSEN
FURTH
168


Zell am See, Salzburg
Directions
Standard
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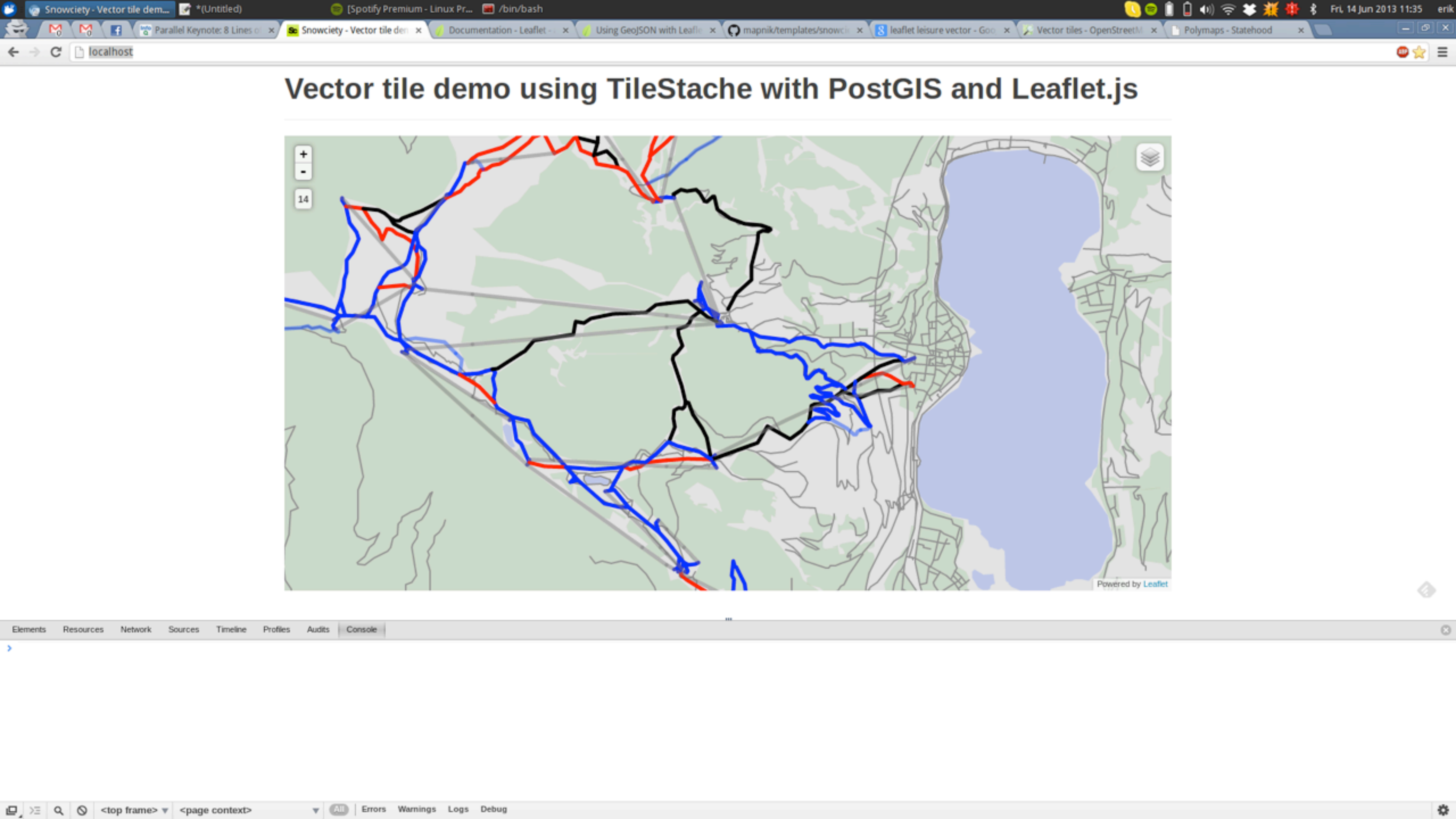
zell am see


Snowciety - Vector tile dem...
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Snowciety - Vector tile dem
Documentation - Leaflet
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Vector tiles - OpenStreetM
Polymaps - Statehood
localhost
Vector tile demo using TileStache with PostGIS and Leaflet.js
+
-
14
Powered by Leaflet
Elements
Resources
Network
Sources
Timeline
Profiles
Audits
Console
<top frame>
<page context>
All
Errors
Warnings
Logs
Debug

How do I get started?

Mapbox.com
download TileMill

Tutorials

for when viewing this presentation on Slideshare

Building your on OSM server (incl all build commands)
http://weait.com/content/build-your-own-openstreetmap-server-lucid

Working with terrain data (hillshading, slopeshading, color-relief)
http://www.mapbox.com/tilemill/docs/guides/terrain-data/

THANK YOU

@timanrebel

Rate me!

GOTO Guide App

!