

Style, Export, Publish: Your First Web Map with QGIS

by Karsten Vennemann



In this Maptime we will:

- Use a „*ready to publish*“ QGIS map with data layers that are cartographically styled as starting point
- Explore how we can add and style our own Open Street Map (OSM) data
- In QGIS use the Plugin QGIS2Web to publish a simple web map (without any coding)

Quick questions for the audience:

- **Who has used QGIS before ?**
Bonus: who knows what a shape file is or what GeoJSON data are ?
Who has used a QGIS plugin ?
- **Who has used or knows what Open Street Map (OSM) + data are ?**
- **Who has created a web map before ?**
- **Who knows HTML / JS ?**

Steps creating a simple web map

- **Create and style a map in QGIS (done)**
get & load data, cartographically style data
- **Install and use QGIS Plugin QGIS2web**
configure web map content in GUI interface
export web map → writes HTML & JS files
(that is the web map viewer,
data is converted to GeoJSON)
- **View map in browser locally**
publish - optional: upload to web site/space

Create and style a map in QGIS

get & load data, cartographically style data

In QGIS we can create a very simple map like this one ..

but also maps like ...





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Content of zip file:

Name	Ext	Size
⬆️ ..		<DIR>
📁 osm_data		<DIR>
📁 seattle		<DIR>
📄 QGIS_to_Web	ppt	3,657,728
🗺️ andorra_osm	qgz	36,695
🗺️ seattle	qgz	32,928

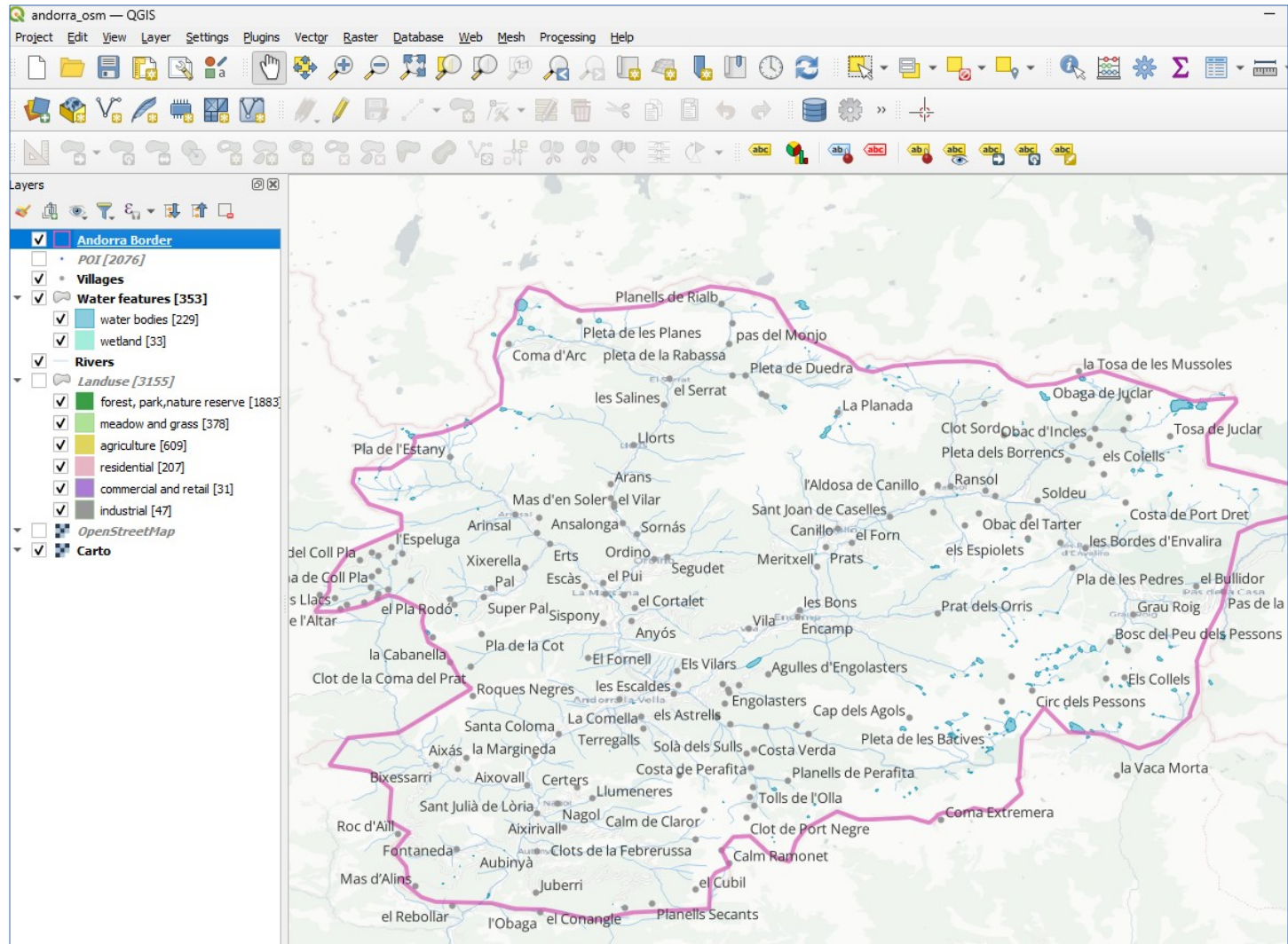
Double click to open
map in QGIS



Create and style a map in QGIS

get & load data, cartographically style data

Andorra Map

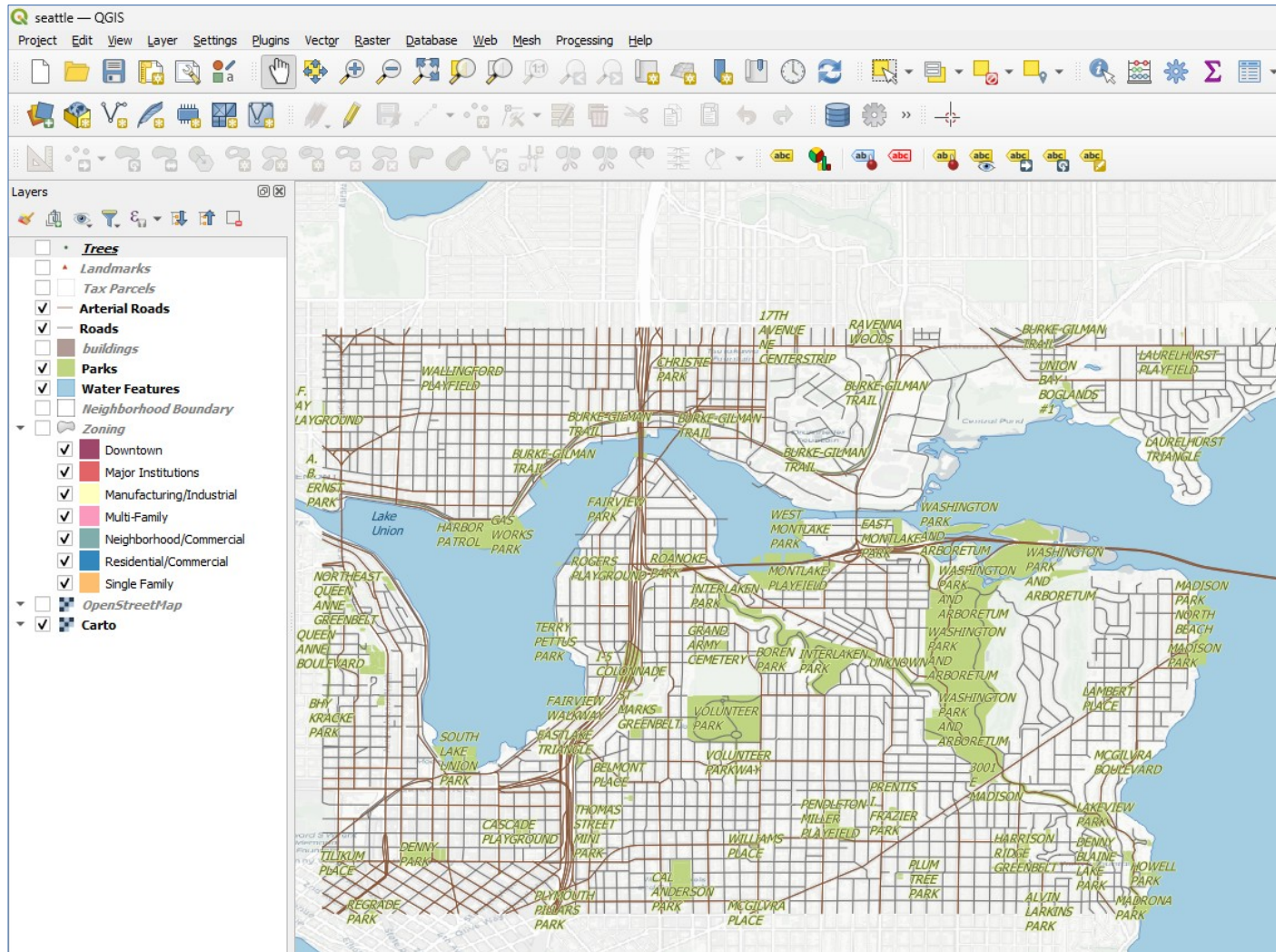


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Seattle Map

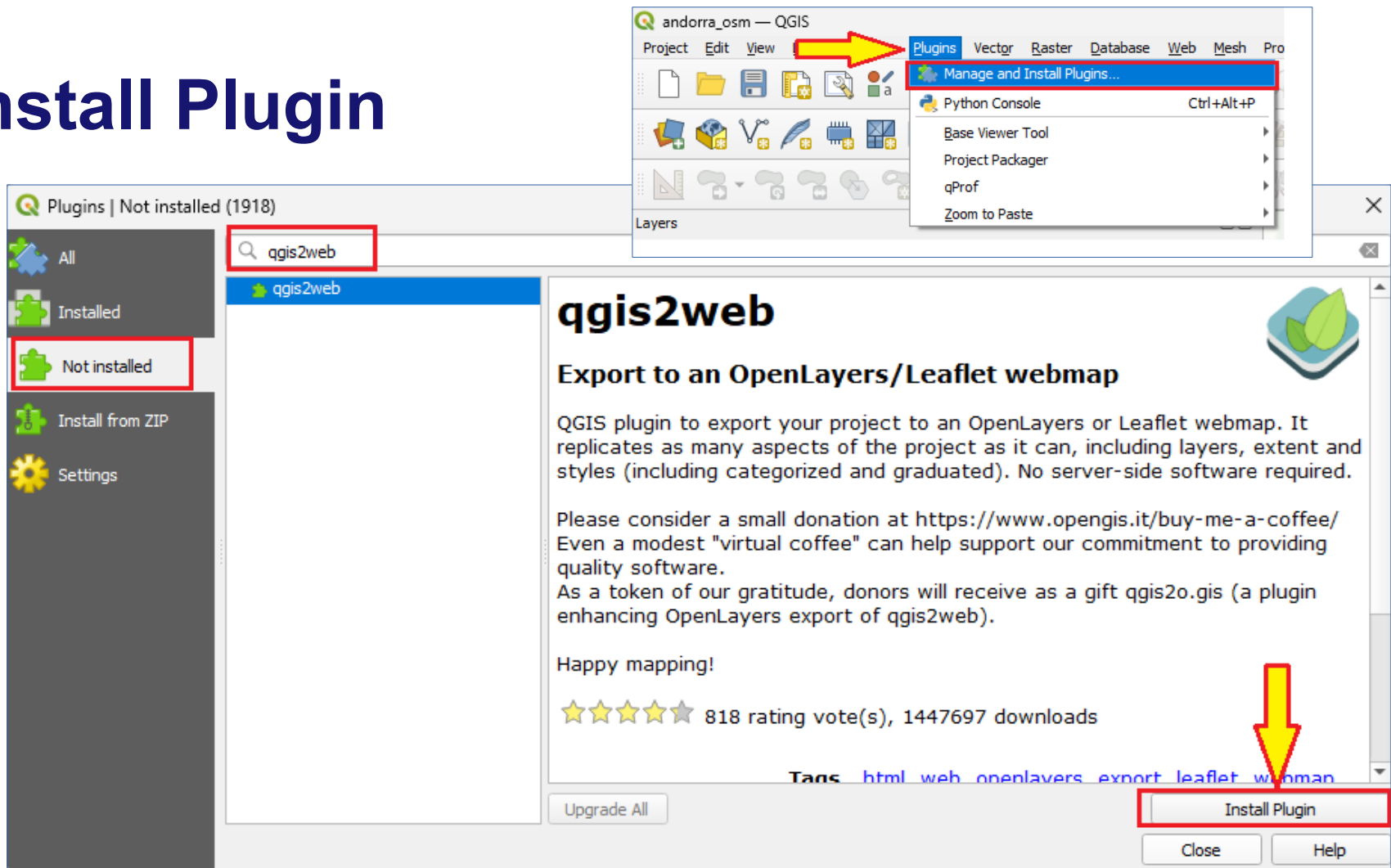


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Install Plugin

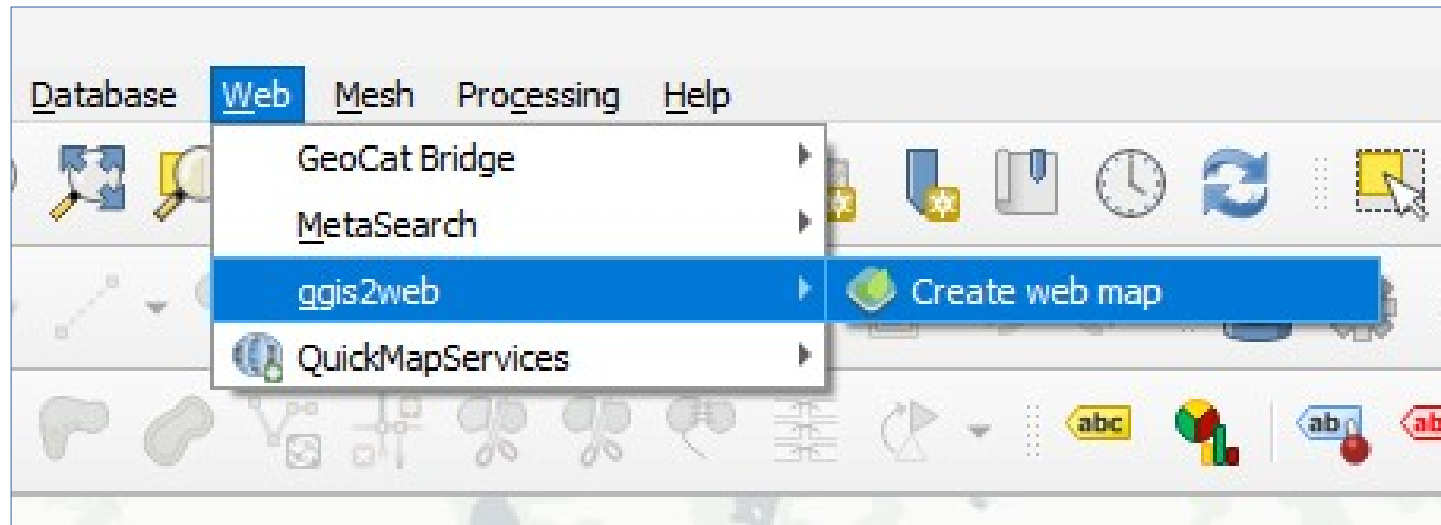


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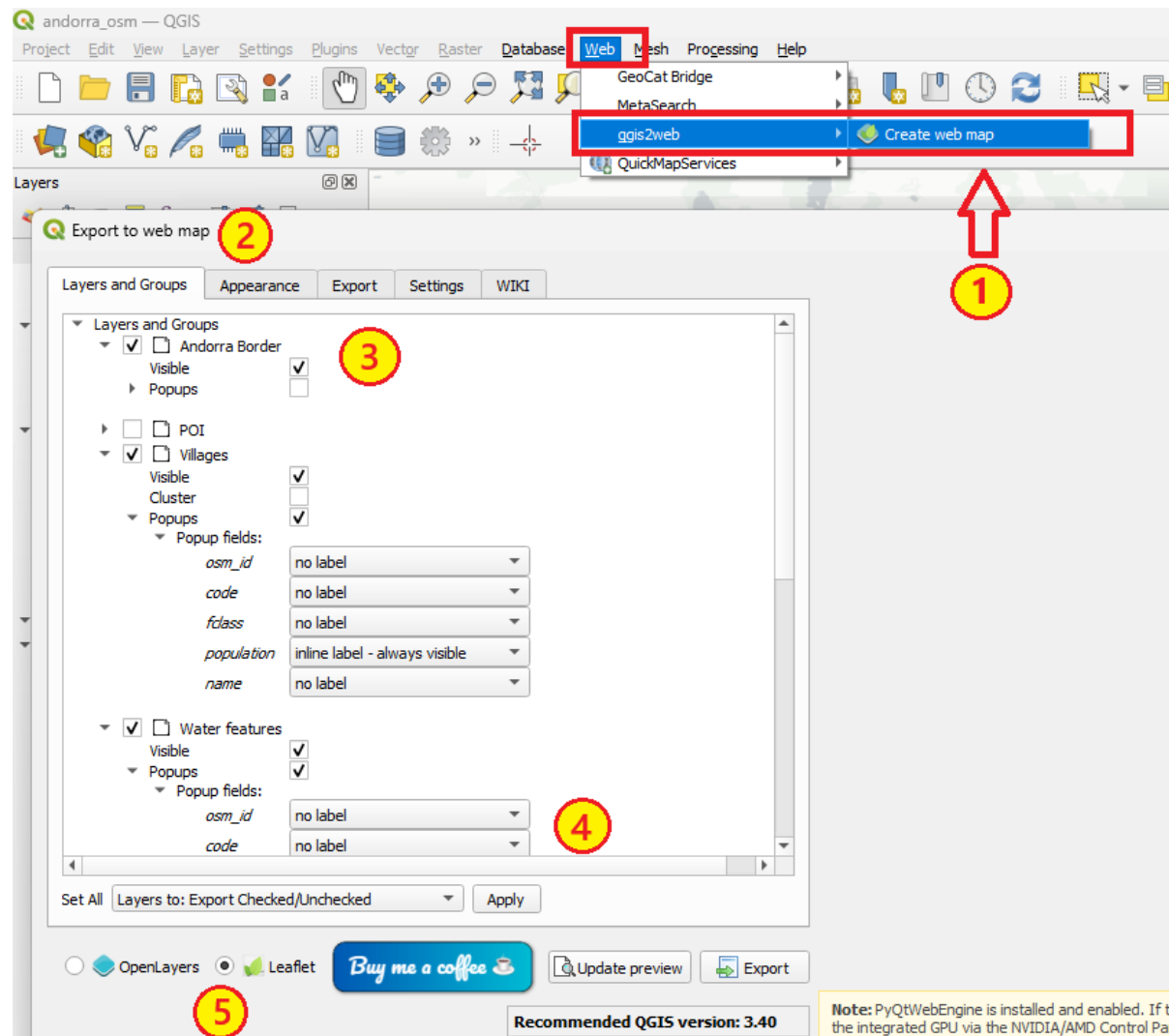
Open Plugin



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Plugin Panel

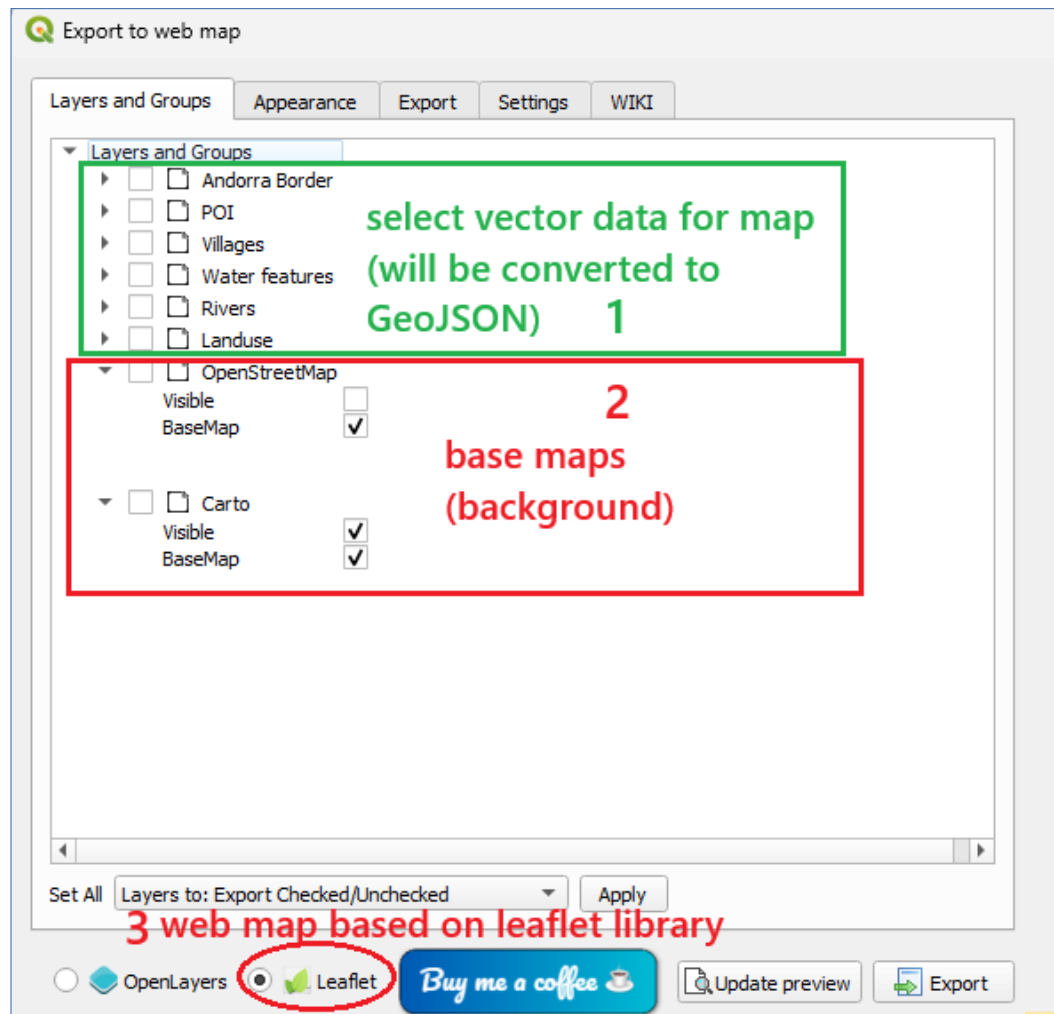


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export
settings



Style, Export, Publish:
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Appearance
Select Tools
to add

QGIS Export to web map

Layers and Groups Appearance Export Settings WIKI

Appearance

Title: None

Abstract: None

Layers list: Expanded

Attribute filter: fclass: str: Rivers| Water features| Villages
GID_0: str: Andorra Border
population: int: Villages
COUNTRY: str: Andorra Border
name: str: Rivers| Water features| Villages
width: int: Rivers
code: int: Rivers| Water features| Villages
osm_id: str: Rivers| Water features| Villages

Geolocate user: ☐

Measure tool: Metric

Address search: Nominatim OSM

Layer search: None

Show popups on hover: ☐

Highlight on hover: ☐

Template: full-screen

Widget Icon:

Widget Background:

Scale/Zoom

Match project CRS: ☐

Restrict to extent: ☐

Extent: Canvas extent

Max zoom level: 28

Min zoom level: 1

☐ OpenLayers ☒ Leaflet

Buy me a coffee

Update preview

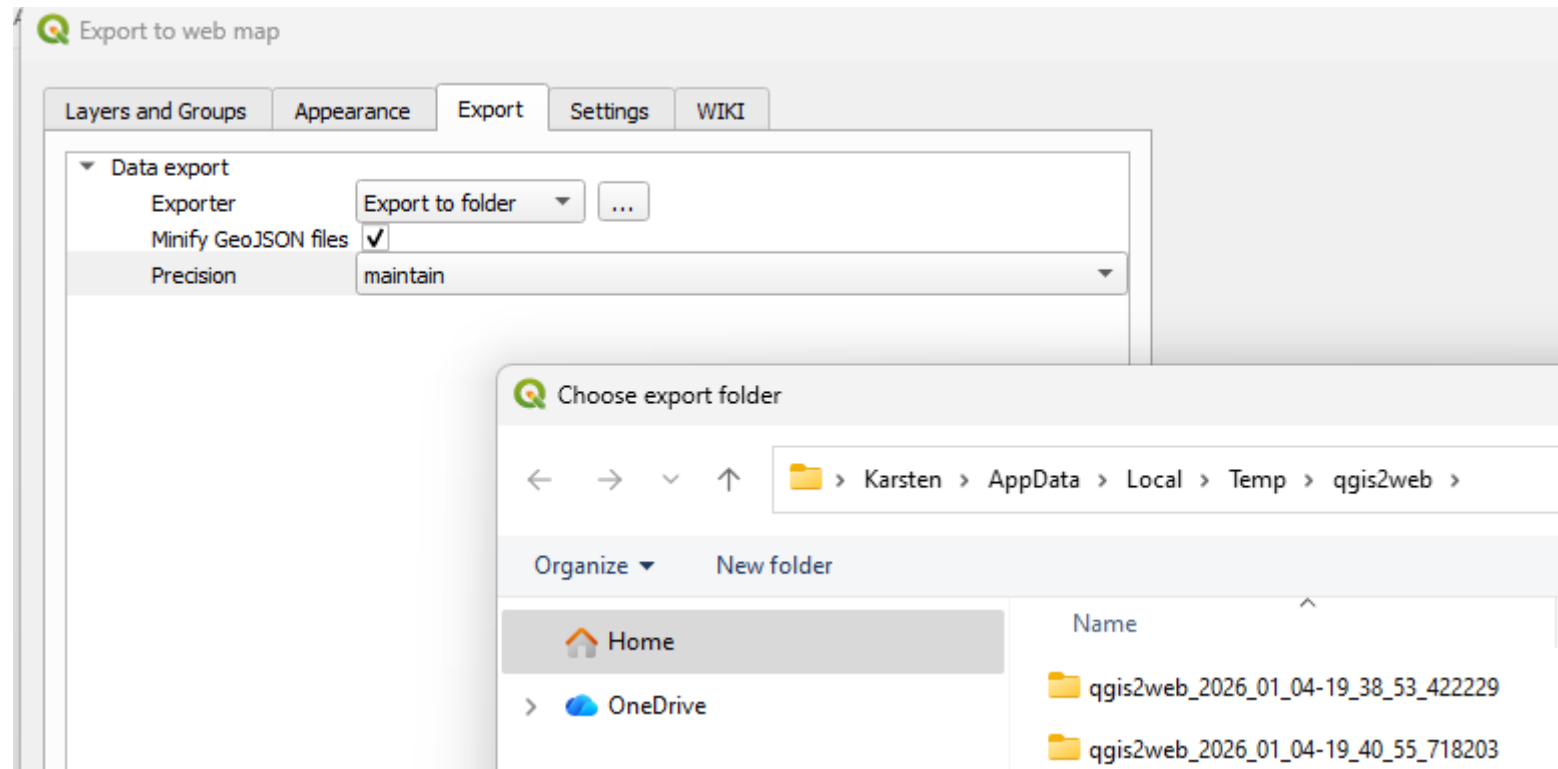
Export

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Export – Select Folder (for HTML/JS/data output)




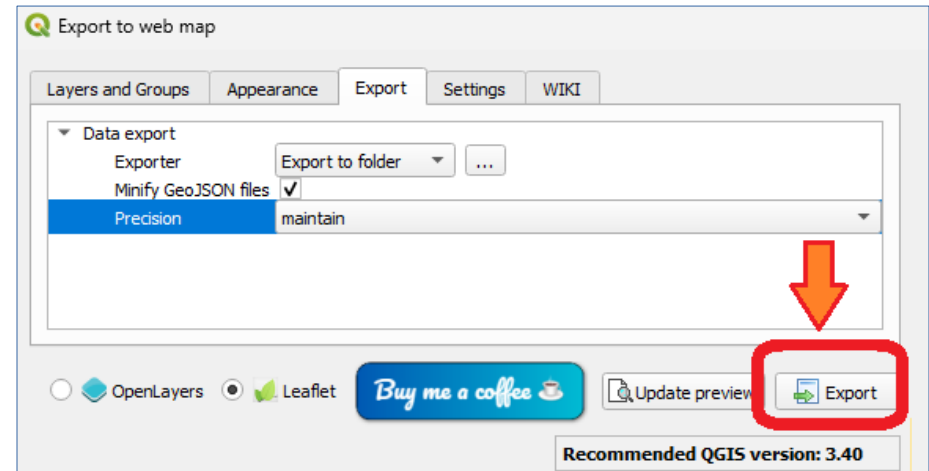
Create and style a map in QGIS

get & load data, cartographically style data

Export

Writes HTML
JS, CSS, Icons
files
based on
selected library

converts data
to GeoJSON



h:\dokumente\conferences\2026\maptime\andorra*.*

Name	Ext	Size
..		<DIR>
css		<DIR>
data		<DIR>
images		<DIR>
js		<DIR>
legend		<DIR>
markers		<DIR>
webfonts		<DIR>
index	html	27,554

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Output

h:\dokumente\conferences\2026\maptime\andorra\js*.*

Name	Ext	Size
..	<DIR>	
Autolinker.min	js	45,435
L.Control.Layers.Tree.m..	js	11,271
labelgun.min	js	4,670
labels	js	1,856
leaflet-hash	js	3,624
leaflet-heat	js	5,168
leaflet-measure	js	245,214
leaflet-svg-shape-mark..	js	2,068
leaflet-tilelayer-wmts	js	
leaflet	js	
leaflet.js	map	
leaflet.markercluster	js	
leaflet.pattern	js	
leaflet.photon	js	
leaflet.rotatedMarker	js	
Leaflet.VectorGrid	js	
leaflet.wms	js	
multi-style-layer	js	
OSMBuildings-Leaflet	js	
qgis2web_expressions	js	
rbush.min	js	

h:\dokumente\conferences\2026\maptime\andorra\css*.*

Name	Ext	Size
..	<DIR>	
images	<DIR>	
fontawesome-all.min	css	41,069
L.Control.Layers.Tree	css	1,068
leaflet-measure	css	3,699
leaflet	css	14,806
leaflet.photon	css	2,089
MarkerCluster	css	886
MarkerCluster.Default	css	1,346
qgis2web	css	6,256

Web Viewer (JS)

Styling - CSS

Data - GeoJSON

h:\dokumente\conferences\2026\maptime\andorra\data*.*

Name	Ext	Size
..	<DIR>	
AndorraBorder_6	js	8,333
POI_5	js	367,380
Rivers_2	js	1,031,147
Villages_4	js	32,299
Waterfeatures_3	js	437,237

Legend - Icons

h:\dokumente\conferences\2026\maptime\ar

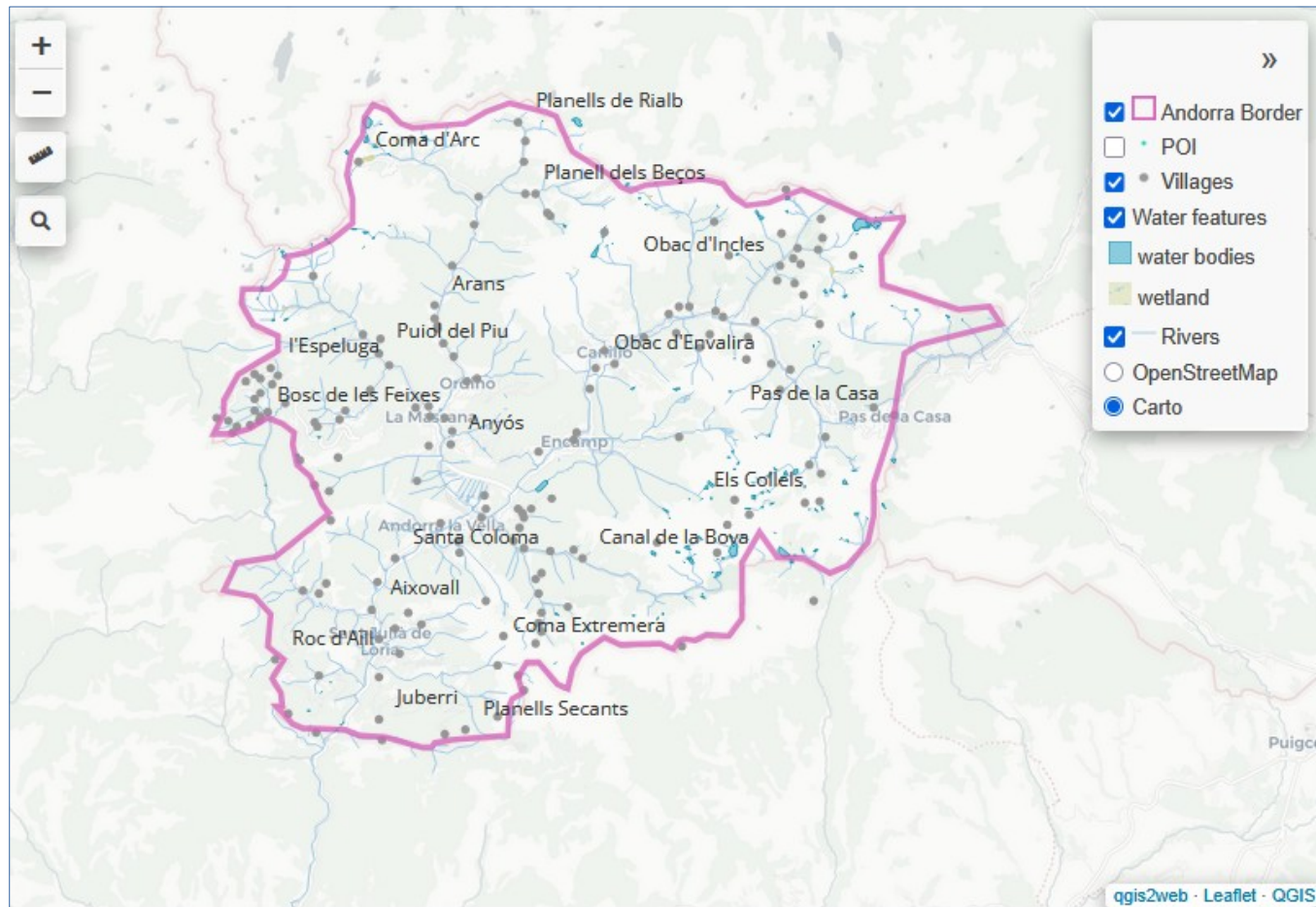
Name	Ext
..	
AndorraBorder_6	png
POI_5	png
Rivers_2	png
Villages_4	png
Waterfeatures_3_water..	png
Waterfeatures_3_wetla..	png

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➡ Open index.html in browser

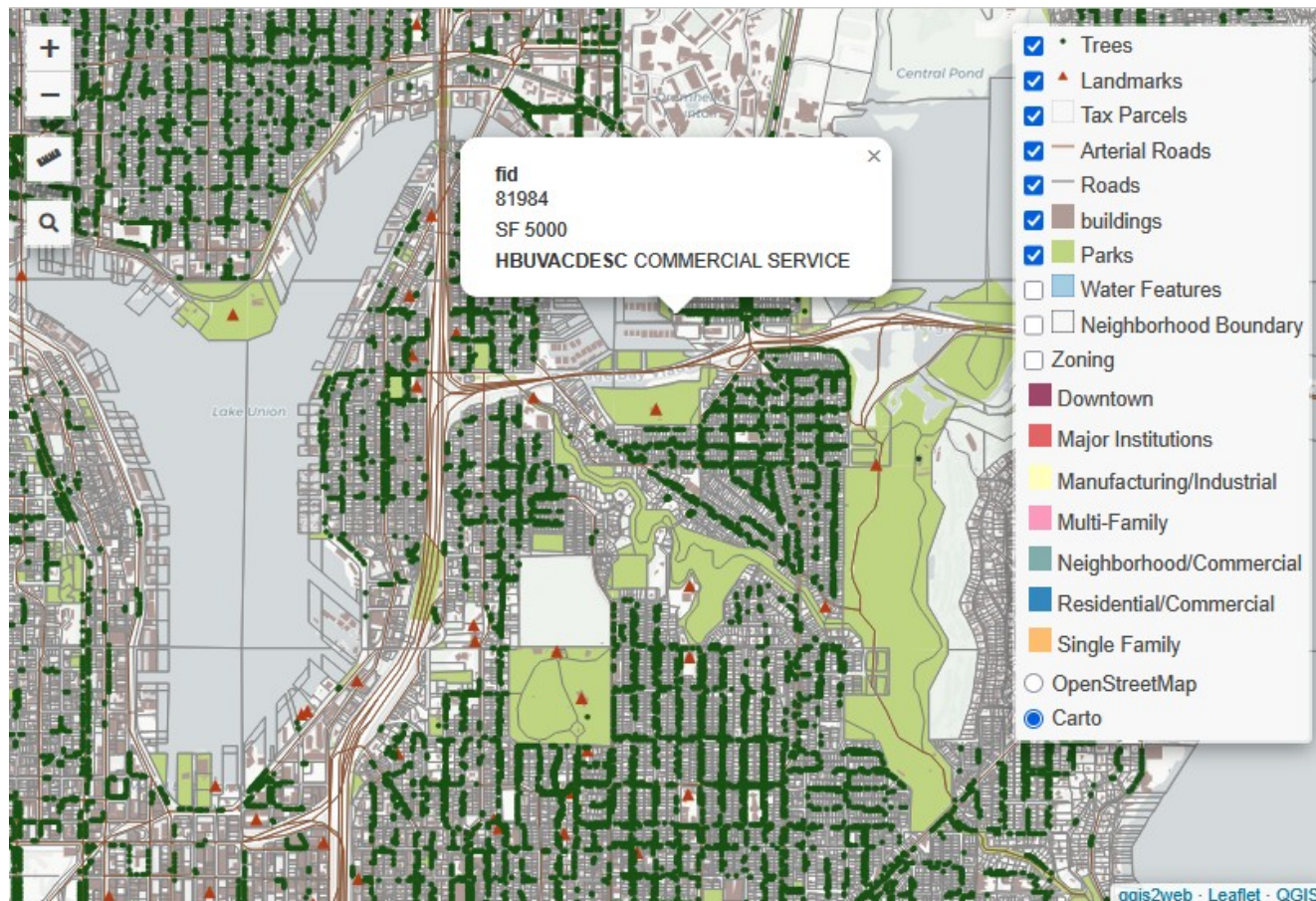


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Example Maps

Andorra

<https://www.terrakis.net/docs/qgisweb/andorra/#12/42.5416/1.6110>

Seattle

<https://www.terrakis.net/docs/qgisweb/seattle/#16/47.6414/-122.2969>



Create and style a map in QGIS

get & load data, cartographically style data

Add and style your own data, export , repeat :)



OSM from Geofabrik (shape files)

All data Extracts by area <https://download.geofabrik.de/>

North America <https://download.geofabrik.de/north-america/us.html>

Style like a Bing Map, drop in data

<https://gitlab.com/champs-libres/public/champs-libres-qgis-osm-style>

Country Admin Borders from GADM

<https://gadm.org/>

Natural Earth data

<https://www.naturalearthdata.com/>

Contact

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www.terrakis.net



References

QGIS – Desktop GIS

Creating and styling maps

<https://qgis.org/>

QGIS addition (plugin called QGIS2web) to create a web map without coding

<https://plugins.qgis.org/plugins/qgis2web/>

Open Street Map – “The map data wiki of the world”

Data for your map: <https://www.openstreetmap.org>

Download packaged data from Geofabrik

<https://download.geofabrik.de/north-america/us.html>

The web map – results of your work:

A web page with an interactive web map based on a map viewer

such as [Leaflet](#) or [OpenLayers](#). This consists of one HTML file, several JavaScript files (plus some additional assets such as icons and CSS). The data from your QGIS map is converted to GeoJSON format.