

February 27, 2018

Leave a comment

Share

Using OpenStreetMap Basemaps with QGIS 3.0

QGIS 3 is a new wave of open source GIS. Not only is it extremely quick and efficient, allowing you to use almost every type of geospatial data you can throw at it, but it also includes a 3D renderer and ways to export your creations straight to the web. And let's not forget the HUGE amount of tools it comes with out of the box.

But it has only been out a couple of days and is missing the good old "Quick Map Tools" which we have all become accustomed to, allowing us to easily bring in OpenStreetMap, Stamen, and other background maps with ease. You may have read that you can enable them by using xyz tiles, but, if you are like me, this might as well say, "Stick cheese in your keyboard and twiddle it a little." As an average GIS user, I have no idea what an xyz tile server is, and, unless you need one, you probably won't know either. So good news: I've put

together a little blog for you to get your services back with ease.						
Here's how: 1 - Go to https://wiki.openstreetmap.org/wiki/Tile_servers						
Open the OSM wiki						
2 - You'll see that there is a column "tiles url." These are the xyz tile web addresses you need to make this work.						

xyz tile addresses

3 - Open QGIS (3.0) and ensure your browser window is open. You will see the xyz tile option about three-quarters the way down the list.

5 - Click okay, and away you go!

Voila!

Now that you know how, you can go through the list and add the rest of the services.

Layer	xyz web URL				
OpenStreetMap'sÿStandard tile layer	$https://a.tile.openstreetmap.org/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ https://b.tile.openstreetmap.org/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ https://c.tile.openstreetmap.org/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Wikimedia Maps	https://maps.wikimedia.org/osm-intl/\${z}/\${x}/\${y}.png				
OpenCycleMap	$http://a.tile.opencyclemap.org/cycle/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR \\ http://b.tile.opencyclemap.org/cycle/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Humanitarian map style	$http://a.tile.openstreetmap.fr/hot/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ http://b.tile.openstreetmap.fr/hot/\$\{z\}/\$\{x\}/\$\{y\}.png$				
OSM France	$http://a.tile.openstreetmap.fr/osmfr/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ http://b.tile.openstreetmap.fr/osmfr/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ http://c.tile.openstreetmap.fr/osmfr/\$\{z\}/\$\{x\}/\$\{y\}.png$				
OpenSkiMap	http://tiles.skimap.org/openskimap/\${z}/\${x}/\${y}.png				

OpenSeaMap	http://tiles.openseamap.org/seamark/\${z}/\${x}/\${y}.png				
waymarkedtrails	https://tile.waymarkedtrails.org/hiking/\${z}/\${x}/\${y}.png				
Cycling routes	$https://tile.waymarkedtrails.org/cycling/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Hike & Bike	http://toolserver.org/tiles/hikebike/\${z}/\${x}/\${y}.png				
Hillshading	http://c.tiles.wmflabs.org/hillshading/\${z}/\${x}/\${y}.png				
OSM B&W	https://tiles.wmflabs.org/bw-mapnik/ $\{z\}/\{x\}/\{y\}$.png or https://a.tiles.wmflabs.org/bw-mapnik/ $\{z\}/\{x\}/\{y\}$.png OR https://b.tiles.wmflabs.org/bw-mapnik/ $\{z\}/\{x\}/\{y\}$.png OR https://c.tiles.wmflabs.org/bw-mapnik/ $\{z\}/\{x\}/\{y\}$.png				
OSM no labels	$https://tiles.wmflabs.org/osm-no-labels/\$\{z\}/\$\{x\}/\$\{y\}.png\ or\ https://a.tiles.wmflabs.org/osm-no-labels/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ https://b.tiles.wmflabs.org/osm-no-labels/\$\{z\}/\$\{x\}/\$\{y\}.png\ OR\ https://c.tiles.wmflabs.org/osm-no-labels/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Stamen Toner	$http://a.tile.stamen.com/toner/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Stamen Watercolor	http://c.tile.stamen.com/watercolor/\${z}/\${x}/\${y}.jpg				
Transport Map	$http://a.tile2.opencyclemap.org/transport/\$\{z\}/\$\{x\}/\$\{y\}.png\\ OR\ http://b.tile2.opencyclemap.org/transport/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Thunderforest Landscape	$http://a.tile.thunderforest.com/landscape/\$\{z\}/\$\{x\}.png\\ OR\ http://b.tile.thunderforest.com/landscape/\$\{z\}/\$\{x\}\\/\$\{y\}.png\ OR\ http://c.tile.thunderforest.com/landscape\\/\$\{z\}/\$\{x\}/\$\{y\}.png$				
Thunderforest Outdoors	$http://a.tile.thunderforest.com/outdoors/\$\{z\}/\$\{x\}/\$\{y\}.png\\ OR\ http://b.tile.thunderforest.com/outdoors/\$\{z\}/\$\{x\}\\/\$\{y\}.png\ OR\ http://c.tile.thunderforest.com/outdoors\\/\$\{z\}/\$\{x\}/\$\{y\}.png$				
pnvkarte	$http://toolserver.org/{\sim}cmarqu/hill/{$\{z\}/{$\{x\}/{$\{y\}.png}}}$				
OpenPtMap	$http://www.openptmap.org/tiles/\$\{z\}/\$\{x\}/\$\{y\}.png$				
CartoÿLight ("Positron")	$https://cartodb-basemaps-\{s\}.global.ssl.fastly.net/light_all \\ /\{z\}/\{x\}/\{y\}.png$				
CartoÿDark ("Dark Matter")	$https://cartodb-basemaps-\{s\}.global.ssl.fastly.net/dark_all \\ /\{z\}/\{x\}/\{y\}.png$				

OpenRailwayMap

 $\label{lem:http://a.tiles.openrailwaymap.org/standard/${z}/${x}/${y}.png OR http://b.tiles.openrailwaymap.org/standard/${z}/${x}/${y}.png OR http://c.tiles.openrailwaymap.org/standard/${z}/${x}/${y}.png OR http://c.tiles.openrailwaymap.org/standard/${z}/${x}/${y}.png$

Here is a list so that you can copy and paste them directly ${\color{blue} ullet}$

Dragons8mycat



Article by Nicholas Duggan FRGS Cgeog (GIS)

A Chartered Geographer with more than 15 years experience in GIS, data management, and geospatial innovation, Nicholas has consulted and provided work for most industry sectors such as offshore & onshore renewables, environmental, maritime archaeology, offshore & onshore survey, land management, public rights of way, demography, shipping, and traffic management. Nicholas currently is the CTO of the end-to-end geospatial solutions company The Carto Group, Follow him on twitter: @dragons8mycat His LinkedIn profile is here: https://uk.linkedin.com/in/dragons8mycat

Leave a Reply

Your email add	ress will not be	published.	Required f	fields are	marked *
----------------	------------------	------------	------------	------------	----------

Name *

Email *

CHDMIT

xyHt is a monthly print magazine & an online resource for professionals in the fields of positioning & measurement.

RECENT TWEETS



5/25 Eurosense Generates Textured City Models from UltraCam Imagery https://t.co/iSLwnPzAtR #Vexcel #rhinoterrain... https://t.co/HRmkkjo8le

5/24 How Green Is Your City? As tree-planting efforts take root in cities around the world, urban managers turn to geo... https://t.co/Af1w8bToQk

EXPLORE

CORE ARTICLES

SURVEYING

CONSTRUCTION/BIM

AERIAL/UAS

LIDAR/IMAGING

HYDRO/MARINE

SPATIAL IT/GIS

ENERGY/UTILITIES

GNSS/LOCATION TECH

CIVIL/TRANSPORTATION

ENVIRO/AG

PSM ARCHIVES

LATEST ARTICLES

xyHt Digital Magazine: May 2023 May 1, 2023 | By Jeff Thoreson

Spring has Sprung May 17, 2023 | By Eric Gladhill

A Decade of Uncrewed Photogrammetry May 15, 2023 | By Juan B. Plaza

Tracking the Paranormal May 11, 2023 | By Kate Berg

How Green Is Your City? May $10, 2023 \mid By Marc Delgado, PhD$

ABOUT US / ADVERTISE / SUBSCRIBE / CLASSIFIEDS / PSM ARCHIVES / CONTACT

Website Hosting by 270net Technologies, Inc.

ISSN 2373-7018 (print), ISSN 2373-7735 (online). Copyright © xyHt 2023. All Rights Reserved. Terms and Conditions / Privacy Policy