

August 1-3, Foundation University, Dumaguete



PISTATA ING MAPA

open data & software • free maps • community • talks • workshops



KAART



mapbox



Mapillary UΔV4GEO

BNHR

Beyond the Basics with QGIS 3.X

Pista ng Mapa

August 1-3, 2019

Foundation University, Dumaguete City

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House Rules

House Rules

Openness and Diversity - The workshop welcomes and encourages participation by everyone regardless of gender, sexual orientation, disability, physical appearance, body size, race, or religion.

Harassment will not be tolerated - Harassment, in any form, which includes offensive verbal comments related to gender, gender identity and expression, sexual orientation, disability, physical appearance, body size, age, race, ethnicity or religion, or advocating and encouraging harassing behavior will not be tolerated.

Be curious and inquisitive - Asking questions and asking often is encouraged. You may do so at any time during the session.

Stay on topic and mind the time - For the benefit of everyone involved, we should always try to keep our questions and queries on topic and be mindful of the time. If you have important questions that cannot be accommodated during the session, you may approach me or email me afterwards.

BNHR

Who am I?

Ben Hur S. Pintor



geospatial generalist
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Currently:

Proprietor	BNHR open data & spatial solutions
Consultant	Asian Development Bank (ADB) Spatial Data Analysis Explorer
Consultant	Hivos
Data Expert	School of Data
GIS Specialist	Cerebro Labs
GIS Specialist	Counter-mapping for Peri-urban Social Justice
Researcher	STAMINA4Space

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Why are we here?



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WHEN YOU FINALLY GET ARCGIS



QGIS

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Before anything else...

QGIS User Group Philippines

<https://www.facebook.com/groups/qgis.ph/>

BNHR

<https://www.facebook.com/bnhr.xyz/>

Maptime Diliman

<https://www.facebook.com/maptimediliman>

FOSS4G PH

<https://www.facebook.com/groups/965862090200902>

Geographic Information Science Philippines

<https://www.facebook.com/groups/giscienceph/>

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What is QGIS?

Free and Open Source Software

Complies with the **Four Essential Freedoms**

Free as in Freedom, not just Free as in Free Beer.

GNU GPL v2

Cross-Platform

QGIS runs on **Linux**, **Mac**, **Windows**, **Android**, and **BSD**

Mature and Actively-developed

An **official project** of the **Open Source Geospatial Foundation (OSGeo)**

There is a **new release (LR) every 4 months** and **every 3rd release is considered a Long Term Release (LTR)** which is maintained until the next LTR (2 years)

LR: 3.8.1

LTR: 3.4.10

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Who are you?

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How many have used QGIS?

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Who has QGIS in their laptops/PC?

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Who are still using QGIS 2.X?

QGIS 2 is Dead, Long Live QGIS 3!

QGIS 2.18 LTR has reached its End of Life (as of March 2019) and is **officially unsupported**.

It is **highly encouraged** for those still using QGIS 2.X to **migrate to QGIS 3.X**.

P.S. I can help with the migration part. Hahaha. :)



QGIS 2



QGIS 3

bit.ly/PnM-QGIS-data

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What's new in QGIS 3.X?

Unified Data Source Manager!

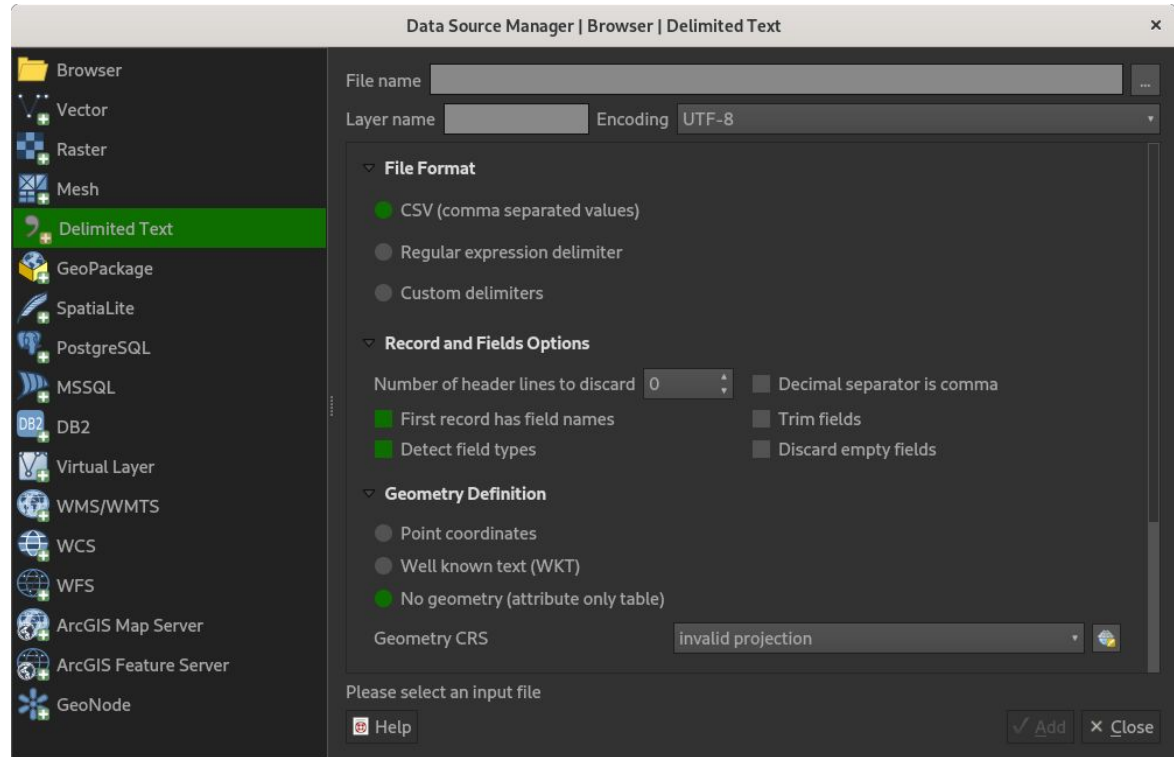
One Loader to Rule them All.





CTRL + L

**Layer → Data
Source
Manager**



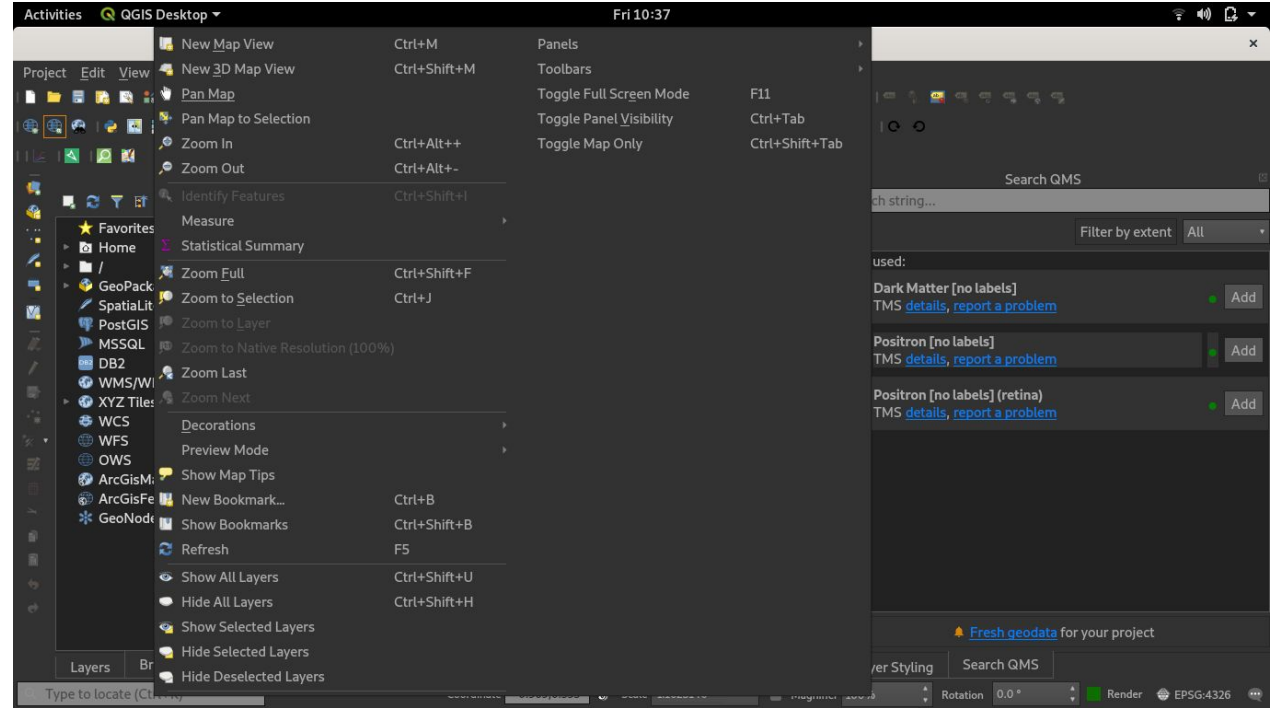
Multiple Map Canvases!

**YOU GET A MAP CANVAS!
YOU GET A MAP CANVAS!**



CTRL + M
Layer → New Map
View

CTRL + SHIFT + M
Layer → New 3D
Map View



Built-in 3D support!

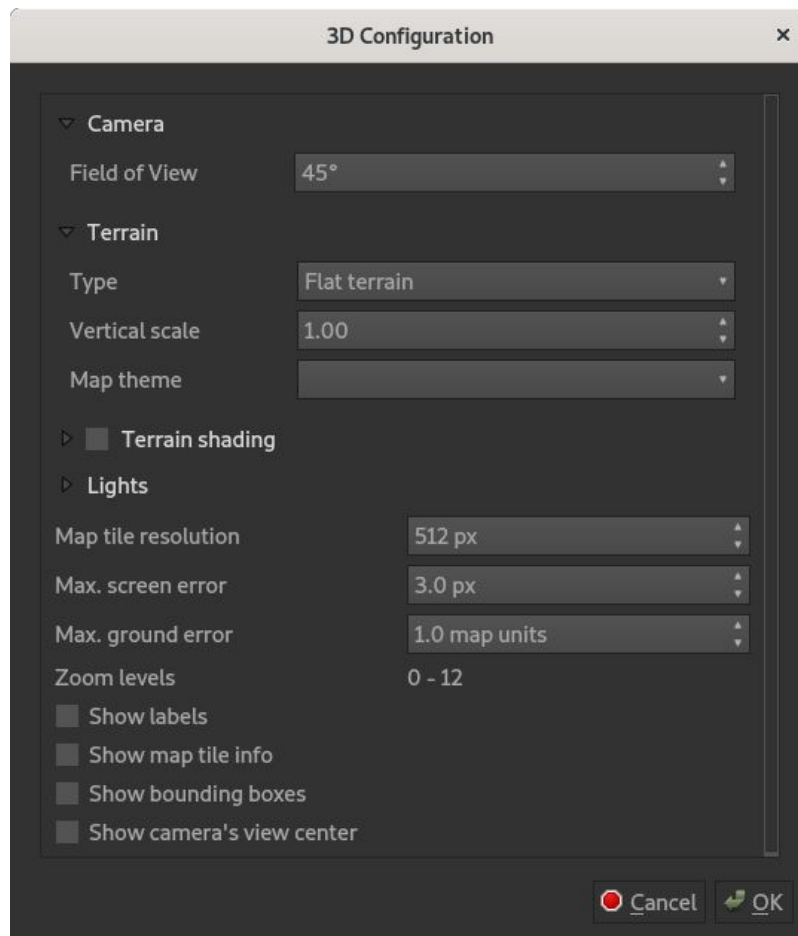
YA'LL GOT ANY MORE OF THAT



3D

Use Projected CRS

Add New 3D Map View



Autocomplete EVERYTHING!

AUTOCOMPLETE



EVERYTHING

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Background Tasks!

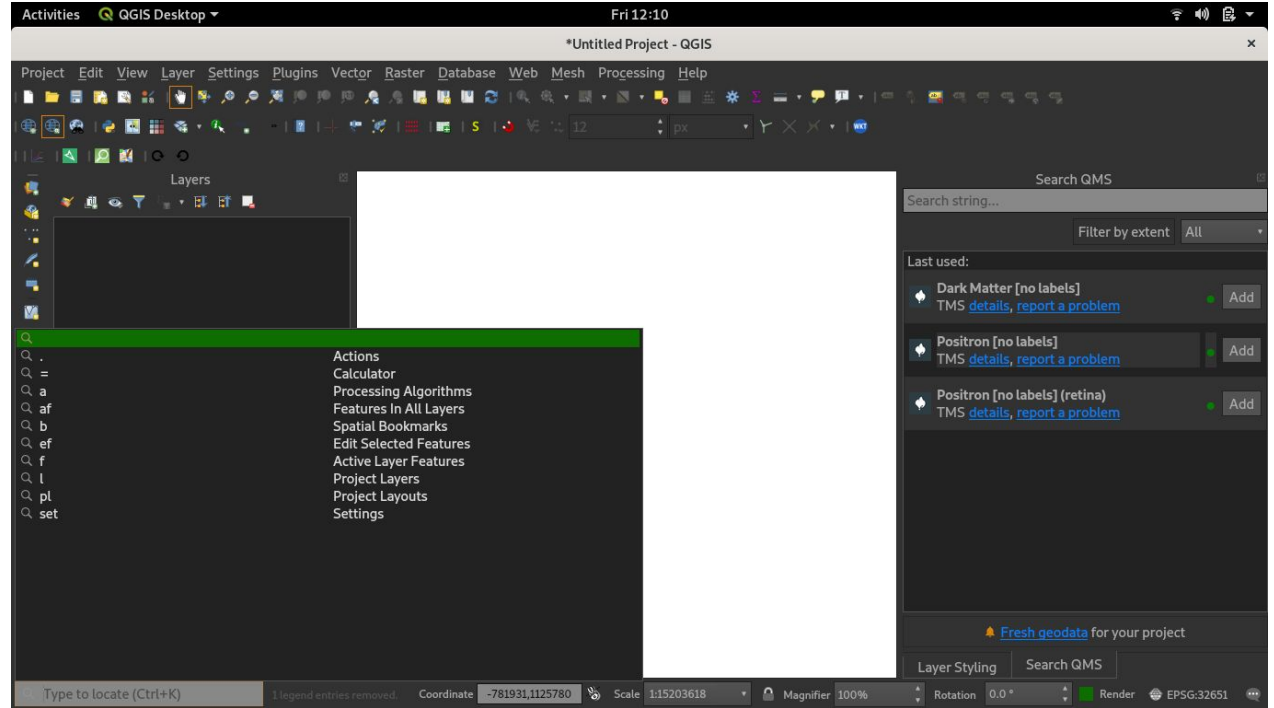


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The Locator Bar!

Search bar on steroids.

CTRL + K



Preview Map Projection Extents!

Never have to guess which projection works for your area ever again.

Project Properties | CRS

Project Coordinate Reference System (CRS)

No projection (or unknown/non-Earth projection)

Filter

Recently used coordinate reference systems

Coordinate Reference System	Authority ID
WGS 84	EPSG:4326
WGS 84 / UTM zone 51N	EPSG:32651

Coordinate reference systems of the world Hide deprecated CRSs

Coordinate Reference System	Authority ID
WGS 84	EPSG:4326
WGS72	IGNF:WGS72G
WGS_1984_(G1150)	EPSG:104013

WGS 84

Extent
-180.00, -90.00, 180.00, 90.00

Proj4
projcs:datum=WGS84

Ask for datum transformation if several are available (defined in global setting)

Source CRS | Source Datum Transform | Destination CRS | Destination Datum Transform

Help Apply Cancel OK

Project Properties | CRS

Project Coordinate Reference System (CRS)

No projection (or unknown/non-Earth projection)

Filter

Recently used coordinate reference systems

Coordinate Reference System	Authority ID
WGS 84	EPSG:4326
WGS 84 / UTM zone 51N	EPSG:32651

Coordinate reference systems of the world Hide deprecated CRSs

Coordinate Reference System	Authority ID
WGS 84 / UTM zone 50N	EPSG:32650
WGS 84 / UTM zone 50S	EPSG:32750
WGS 84 / UTM zone 51N	EPSG:32651

WGS 84 / UTM zone 51N

Extent
120.00, 0.00, 126.00, 84.00

Proj4
projcs:zone=51,datum=WGS84

Ask for datum transformation if several are available (defined in global setting)

Source CRS | Source Datum Transform | Destination CRS | Destination Datum Transform

Help Apply Cancel OK

GeoPackage by Default!



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bit.ly/PnM-geopackage

In-place Editing!

Manual Editing of Labels!

Point Clusters!

Styling Rasters by Value!

Print Composer -> Print Layouts!

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QGIS Plugins

bit.ly/PnM-QGIS-plugins

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Basemaps in QGIS 3

bit.ly/PnM-QGIS-basemaps

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Connecting QGIS 3 to Remote Services

bit.ly/PnM-QGIS-remote

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Copy-Paste Styles

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Data-defined Styling

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Draw Effects

bit.ly/PnM-QGIS-hillshade

bit.ly/PnM-QGIS-icebergs



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Thank you!



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