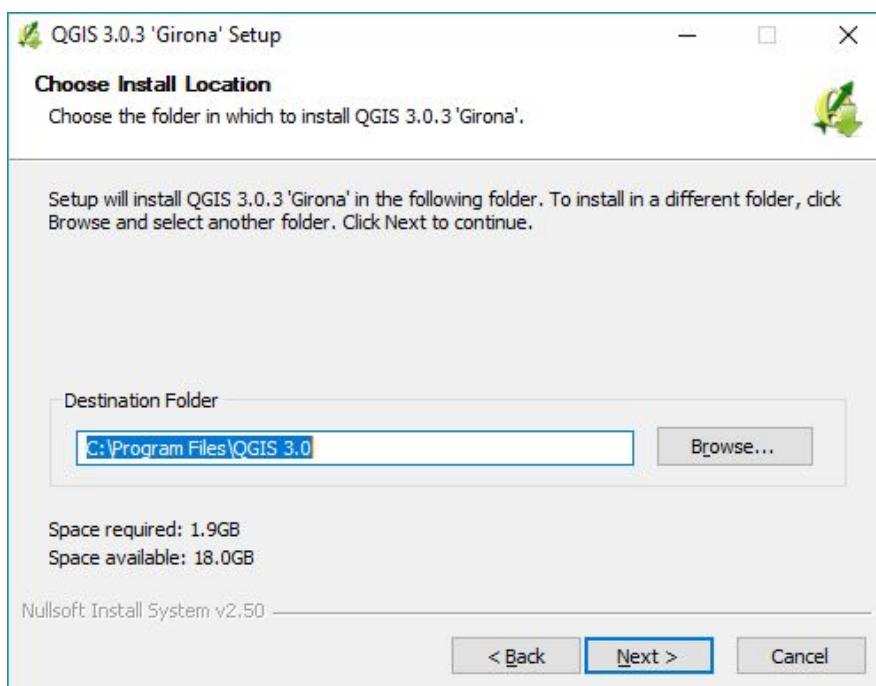


# WorkShop

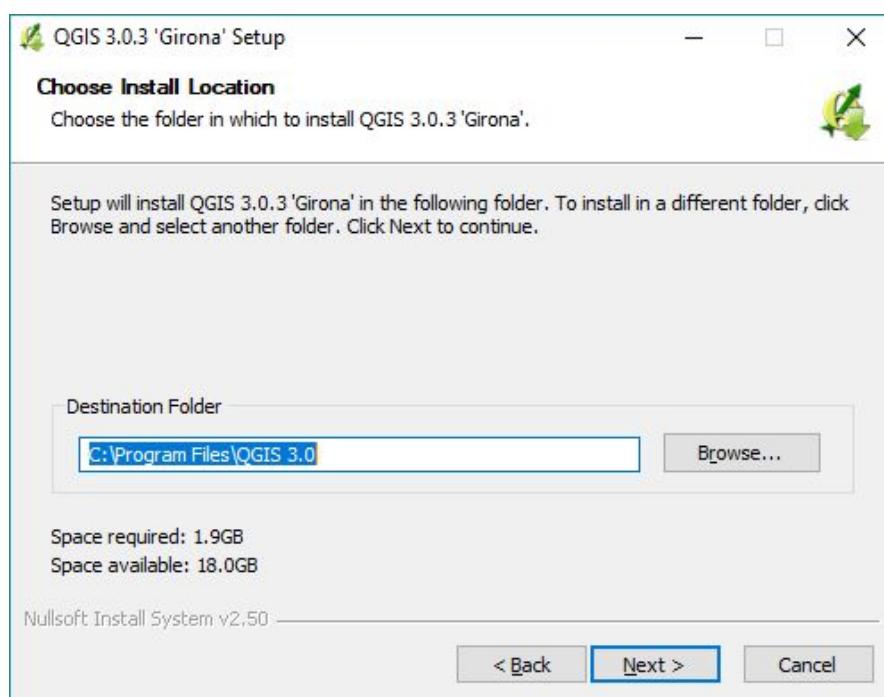
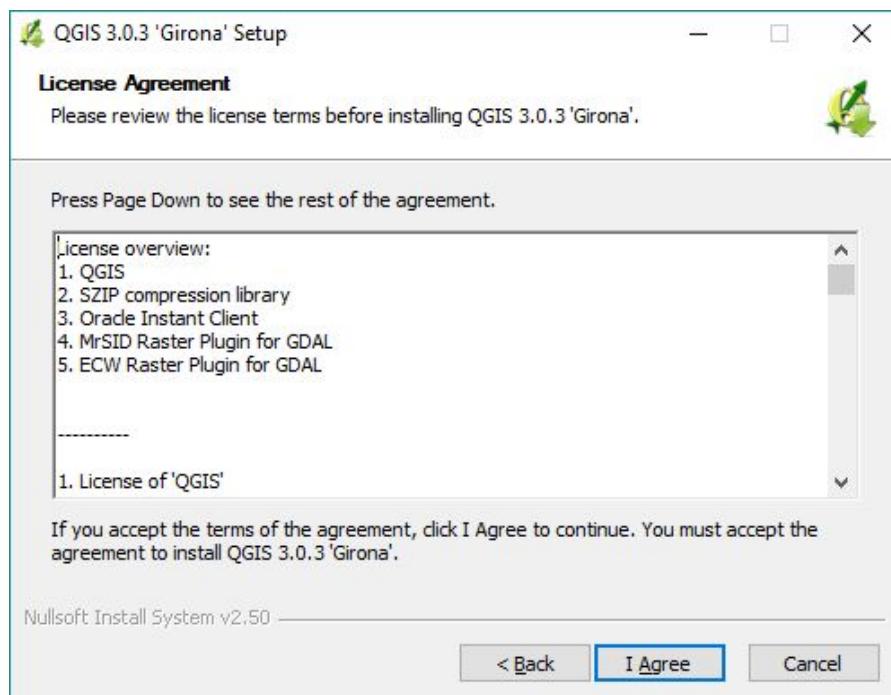
Download Qgis 3.0 (standalone installer-64bit) als je het nog niet gedaan hebt op:

- <https://qgis.org/en/site/forusers/download.html>

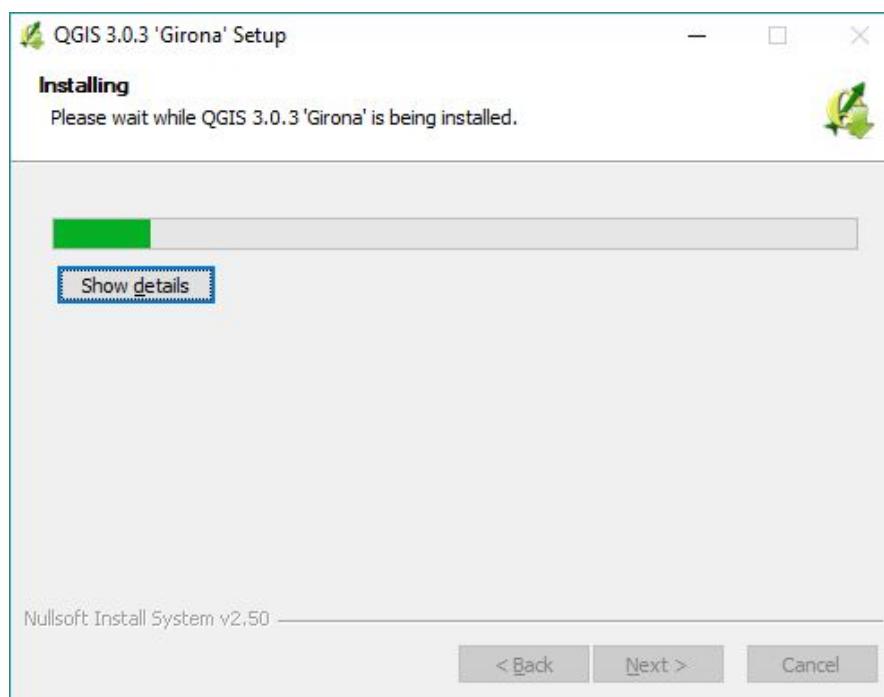
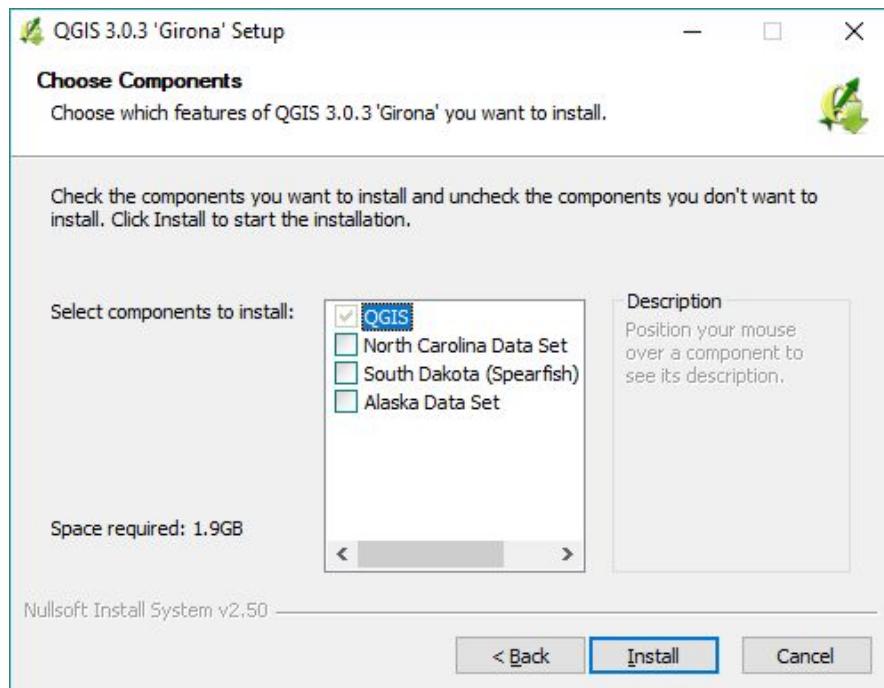
## Installatie Handleiding (next,next,...finish)



# Handleiding Qgis Workshop

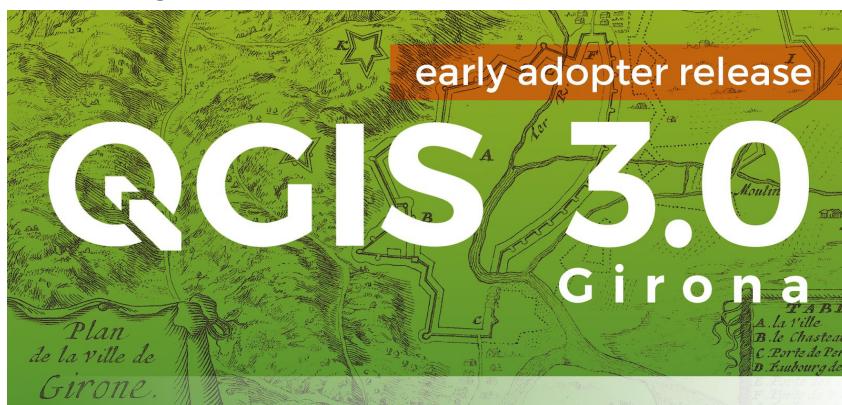


## Handleiding Qgis Workshop





kies voor **Qgis Desktop 3.03** (evt. rechtermuis pin to start) dit splash screen verschijnt:





## Handleiding Qgis Workshop

Download zip van qgis-workshop repository van GitHub:

→ <https://github.com/Bastiaandupon/qgis-workshop>

The screenshot shows the GitHub repository page for 'qgis-workshop'. At the top, there's a navigation bar with links for 'Unwatch', 'Star', 'Fork', and 'Settings'. Below the navigation, there are tabs for 'Code', 'Issues', 'Pull requests', 'Projects', 'Wiki', 'Insights', and 'Settings'. A note says 'No description, website, or topics provided.' There's a 'Edit' button and a 'Add topics' link. Below this, there are stats: 10 commits, 1 branch, 0 releases, and 1 contributor. A dropdown menu shows 'Branch: master'. There are buttons for 'New pull request', 'Create new file', 'Upload files', 'Find file', and 'Clone or download'. The 'Clone or download' button is circled in red. The main area lists commits from 'Bastiaandupon': 'update handleiding' (4 hours ago), 'connection' (2 days ago), 'data' (4 hours ago), 'handleiding' (2 days ago), 'voorbeelden' (2 days ago), and 'README.md' (2 days ago). Below the commit list is a large QGIS logo with the text 'workshop' underneath.

→ download & unzip de folder bijvoorbeeld ~/home/user/documents

The screenshot shows the 'Clone or download' dropdown menu. It has two options: 'Clone with HTTPS' and 'Use SSH'. Below this is a text input field containing the URL 'https://github.com/Bastiaandupon/qgis-'. Underneath is a 'Download ZIP' button. A Firefox dialog box is overlaid on the page, titled 'Opening qgis-workshop-master.zip'. It asks 'What should Firefox do with this file?'. There are three options: 'Open with Archive Manager (default)' (radio button selected), 'Save File' (radio button), and 'Do this automatically for files like this from now on.' (checkbox). At the bottom of the dialog are 'Cancel' and 'OK' buttons.

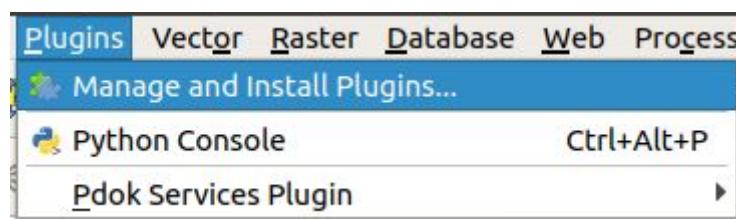
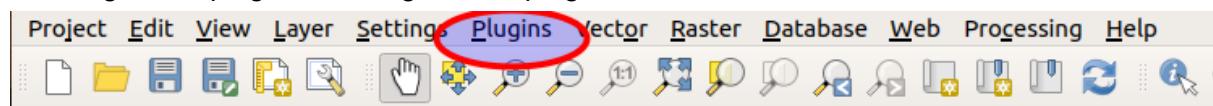


# 1 Plugin(s) installeren

Als eerste ga we de PDOK plugin installeren:

(PDOK: staat voor *Publieke Dienstverlening Op Kaart*) - zie <http://pdokviewer.pdok.nl/> voor meer info

→ ga naar plugins / manage install plugin:



→ tik in *pdok* in het zoek venster:



Plugin ziet er zo uit:

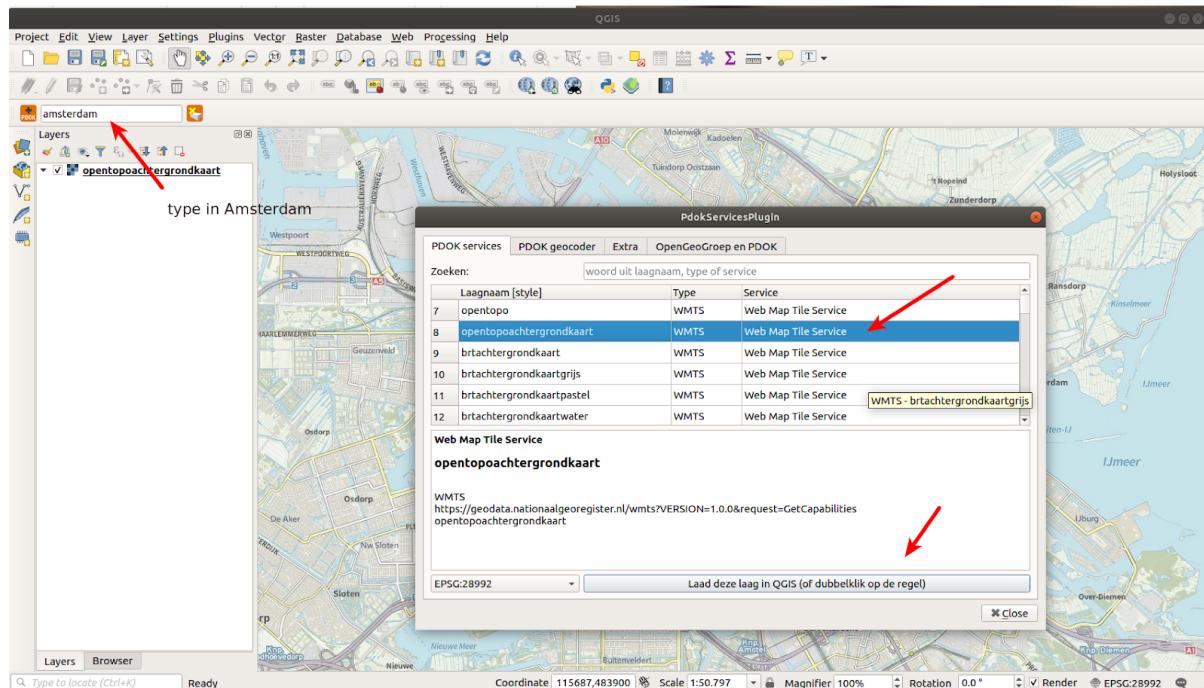


Volgende stap:

- klik op de  & kies de Opentopoachtergrond kaart laag
- Type Amsterdam in het zoekvenster van PDOK

## Handleiding Qgis Workshop

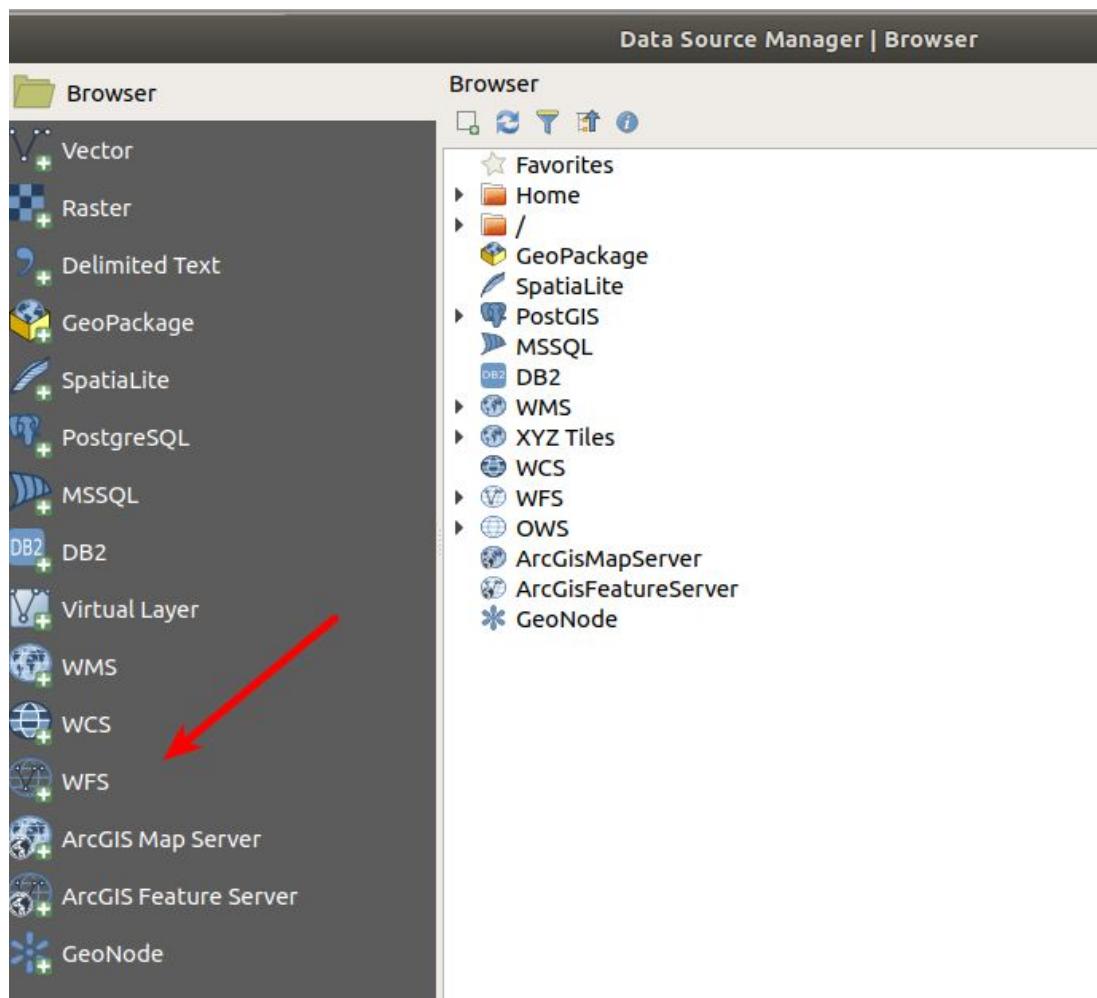
### Overzicht stappen:



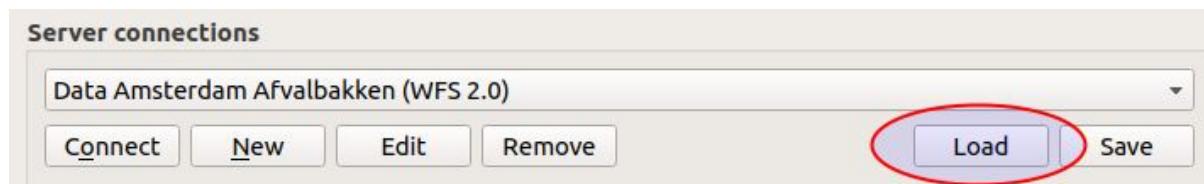


## 2 Web Feature Services toevoegen (WFS)

→ stap 1. Klik op  dan op WFS



→ stap 2. Load serverconnection:





→ stap 3. Ga naar de qgis-workshop folder - connection - Data Amsterdam (WFS).xml



→ stap 4. Select All - import

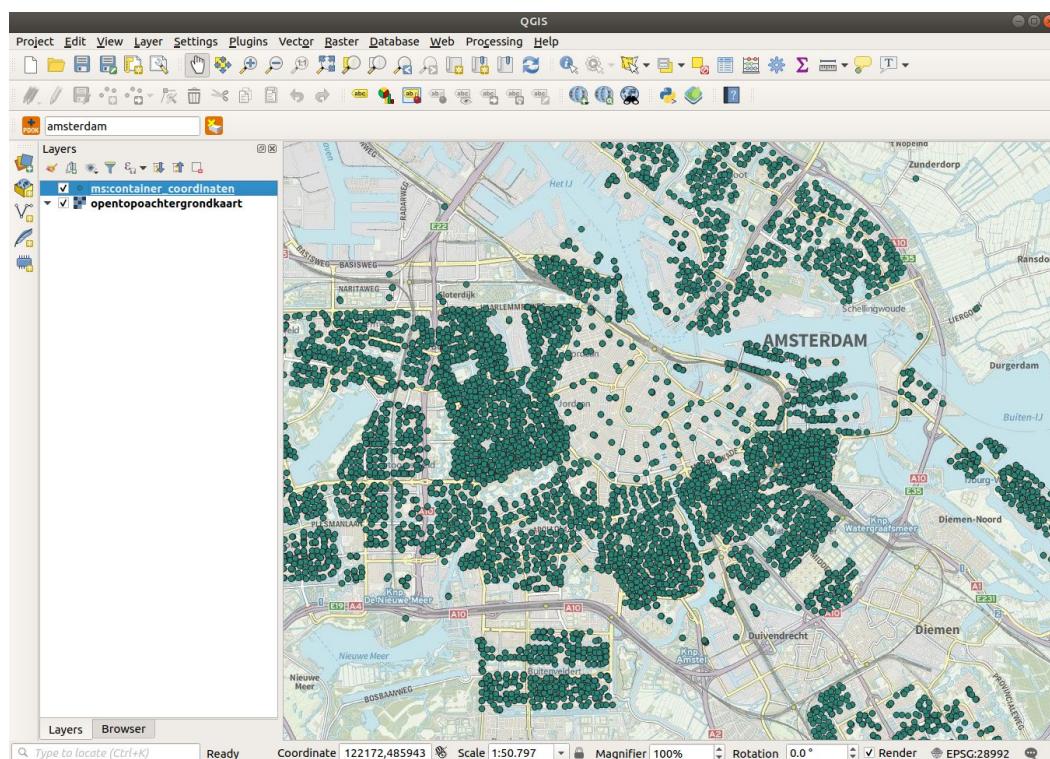
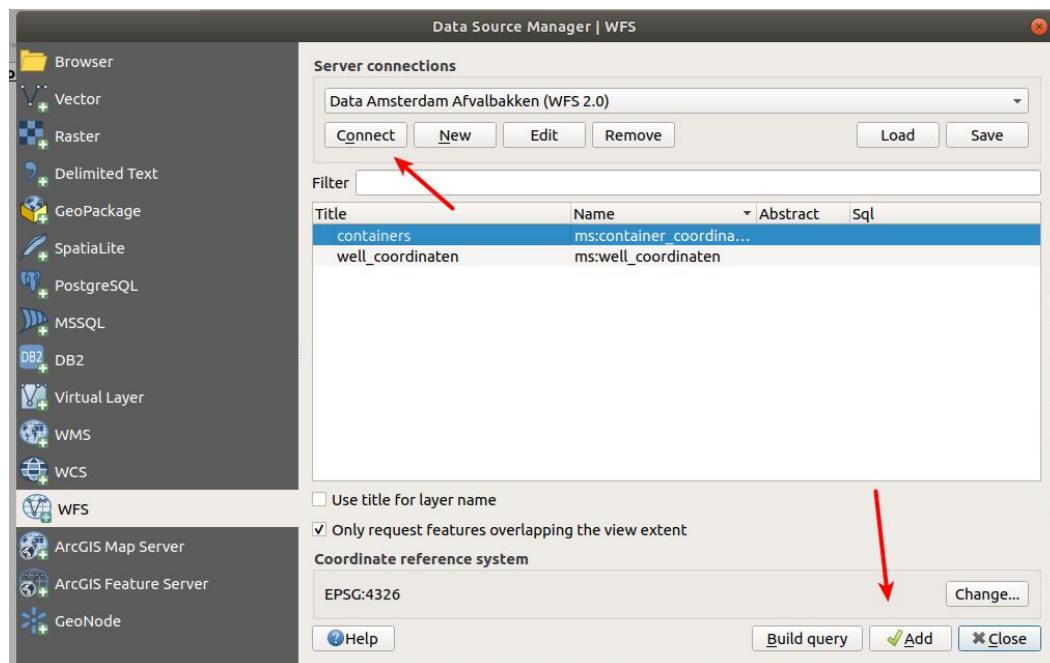


→ stap 5. selecteer - Data Amsterdam Afvalbakken (WFS 2.0)

# Handleiding Qgis Workshop



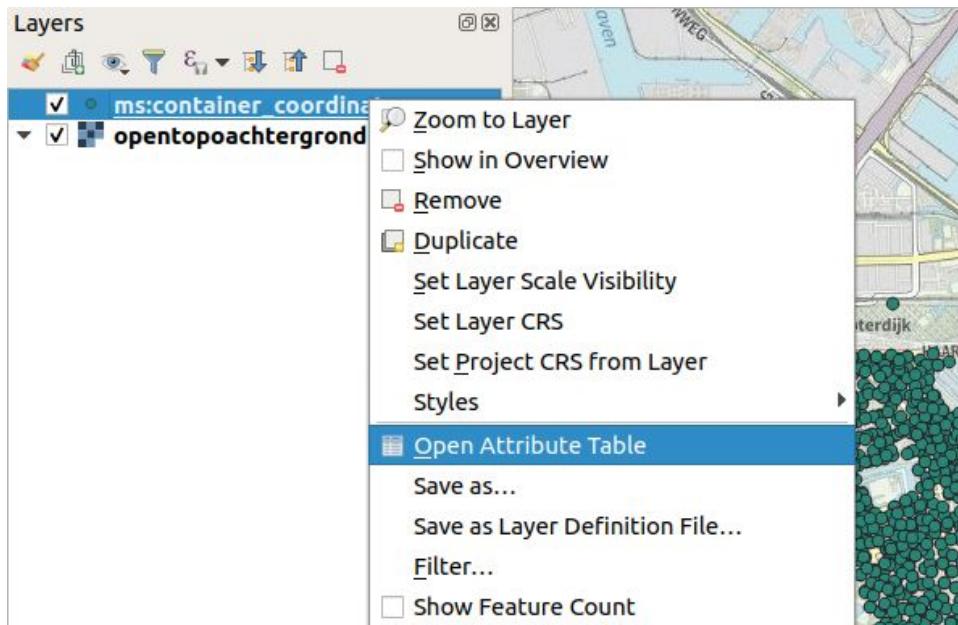
## → Stap 6. Add containers



# 3 Exploratie & thematiseren van data

## 3.1 Data exploratie:

→ stap 1. Open attribuut tabel  (of rechtmuisknop op de feature-laag)



De tabel wordt geopend:

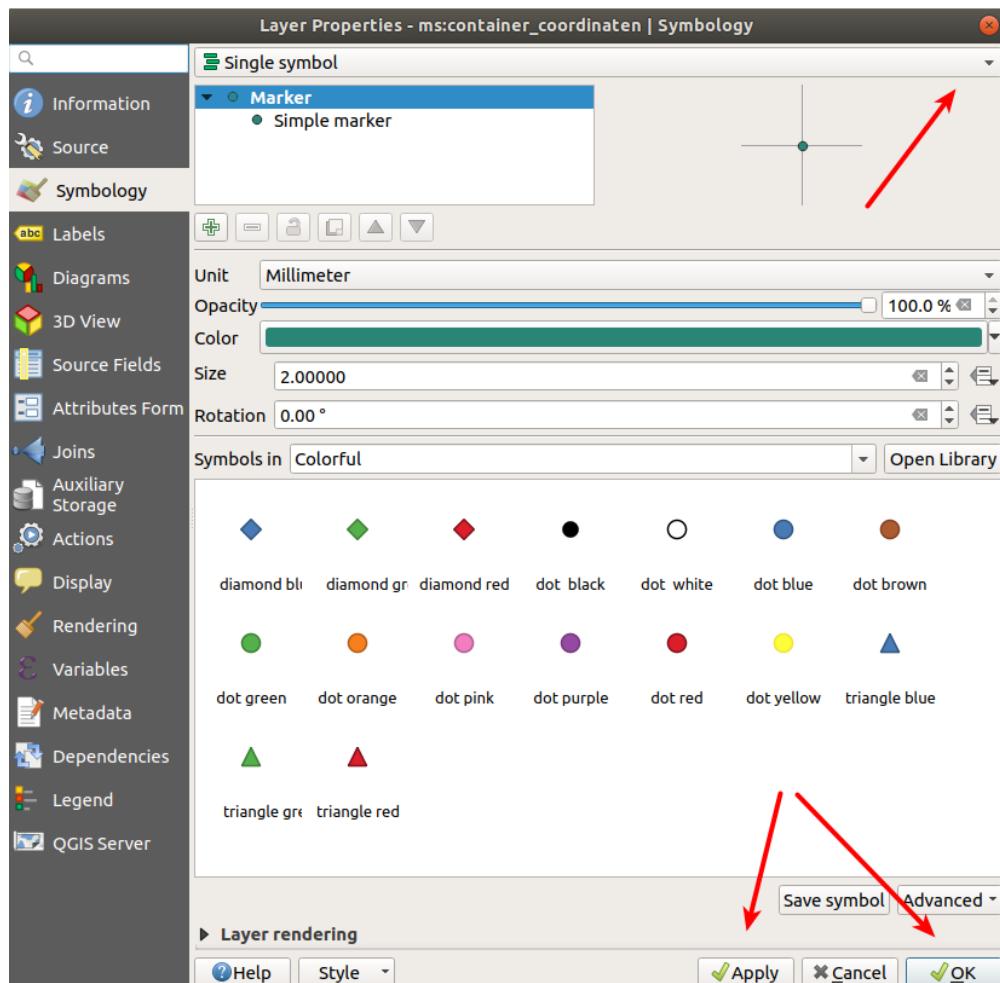
ms:container_coordinaten :: Features Total: 12204, Filtered: 12204, Selected: 0										
	id	id_number	serial_number	active	operational_dat	placing_date	owner	waste_type	waste_name	
1	12146	RE 1157	BAW00640	t			{"id": 110, "name": "E West"} {"id": 111, "name": "M Oost"} {"id": 111, "name": "M Oost"} {"id": 111, "name": "M Oost"} {"id": 110, "name": "E West"} {"id": 112, "name": "A Centrum"} {"id": 111, "name": "M Oost"}	1	Rest	3
2	8924	29	BAO00864	t				Rest	3	
3	19536	Bovengronds-b	Bovengronds	t				Rest	4	
4	18491	RE 9120	BAO01977	t				Rest	4	
5	14744	RE 4344	BAW01939	t				Rest	3	
6	15968	RE 0014	BAC00021	t				Rest	3	
7	82448	RO125	BAW002335	t	2016-11-01...	2016-11-01...	{"id": 111, "name": "M Oost"}	Rest	4	

Wat valt op aan de kolom “**waste\_name**”?

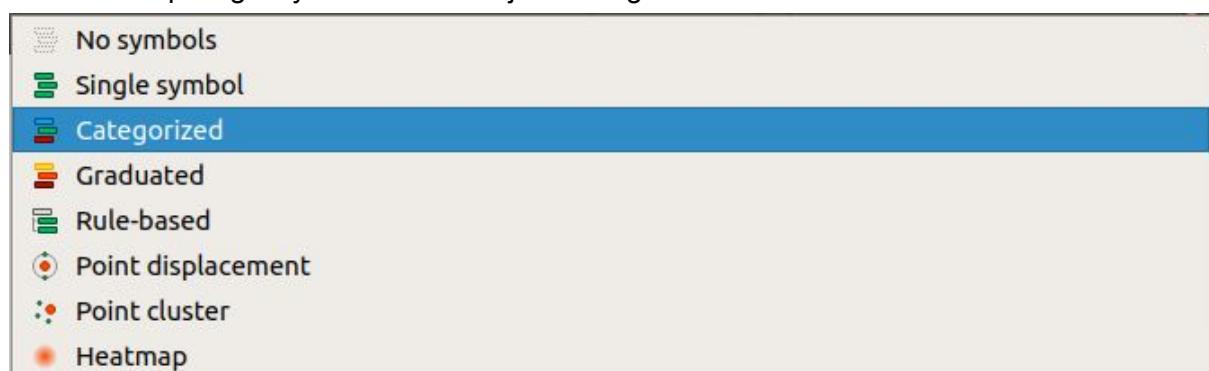


### 3.2 Thematiseren

→ Stap 2. Open table properties (eigenschappen)



→ klik op single symbol - kies uit lijst - Categorized





→ kies kolom waste\_name

Categorized

Column	abc waste_name
Symbol	abc id
Color ramp	abc id_number
Symbol	abc serial_number
	abc active
	abc operational_date
	abc placing_date
	abc owner
	abc waste_type
	abc waste_name
	abc container_type_id

→ Klik op Classify - Apply + OK

Layer Properties - ms:container\_coordinate | Symbology

Symbology

Information
Source
Symbol
Labels
Diagrams
3D View
Source Fields
Attributes Form
Joins
Auxiliary Storage
Actions
Display
Rendering
Variables

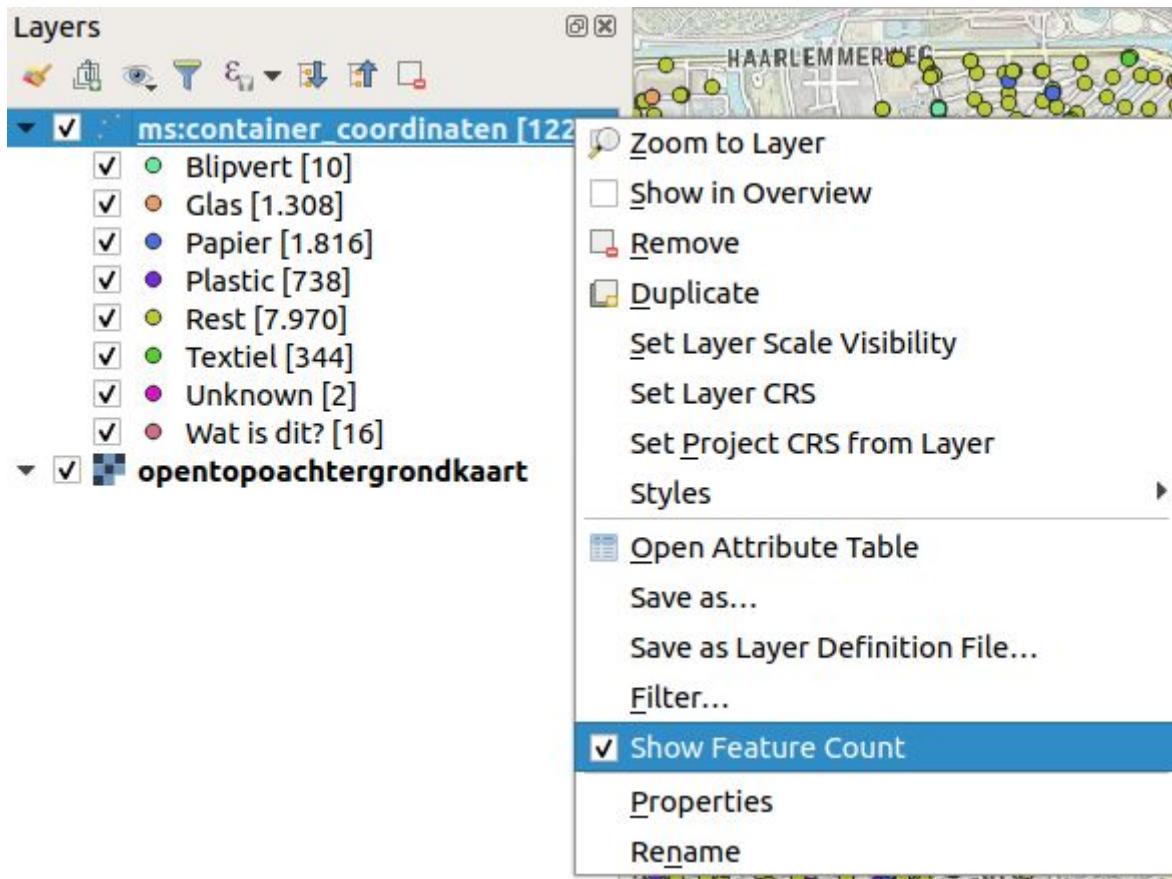
Categorized

Column	abc waste_name
Symbol	Change...
Color ramp	Random colors

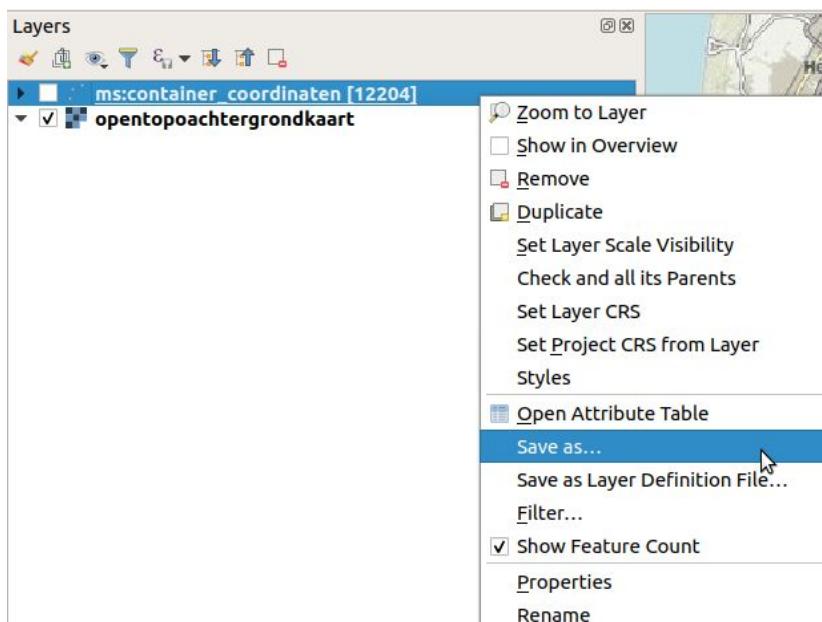
Symbol	Value	Legend
✓ ●	Blipvert	Blipvert
✓ ■	Glas	Glas
✓ ●	Papier	Papier
✓ ●	Plastic	Plastic
✓ ●	Rest	Rest
✓ ●	Textiel	Textiel
✓ ●	Unknown	Unknown
✓ ■	Wat is dit?	Wat is dit?

Classify    Advanced    Delete all    Layer rendering    Help    Style    Apply    Cancel    OK

→ Voor handige tabel statistieken: Rechtermuisknop - Show Feature Count

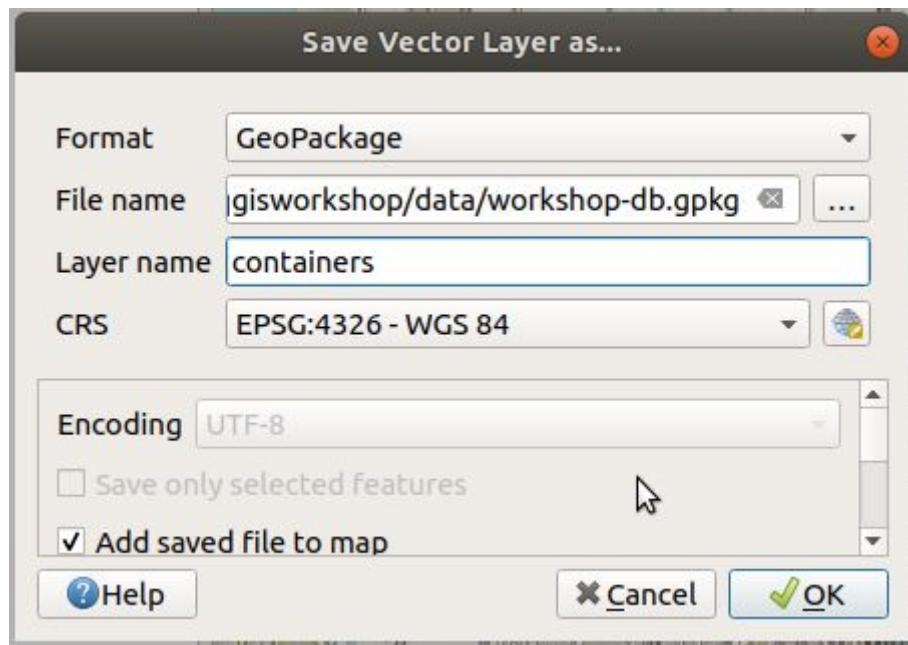


→ save de containers als GeoPackage





- Geef het format: GeoPackage
- Als Filename: zoek de workshop-db.gpkg in de folder ~/qgisworkshop/data
- Als layername: Containers





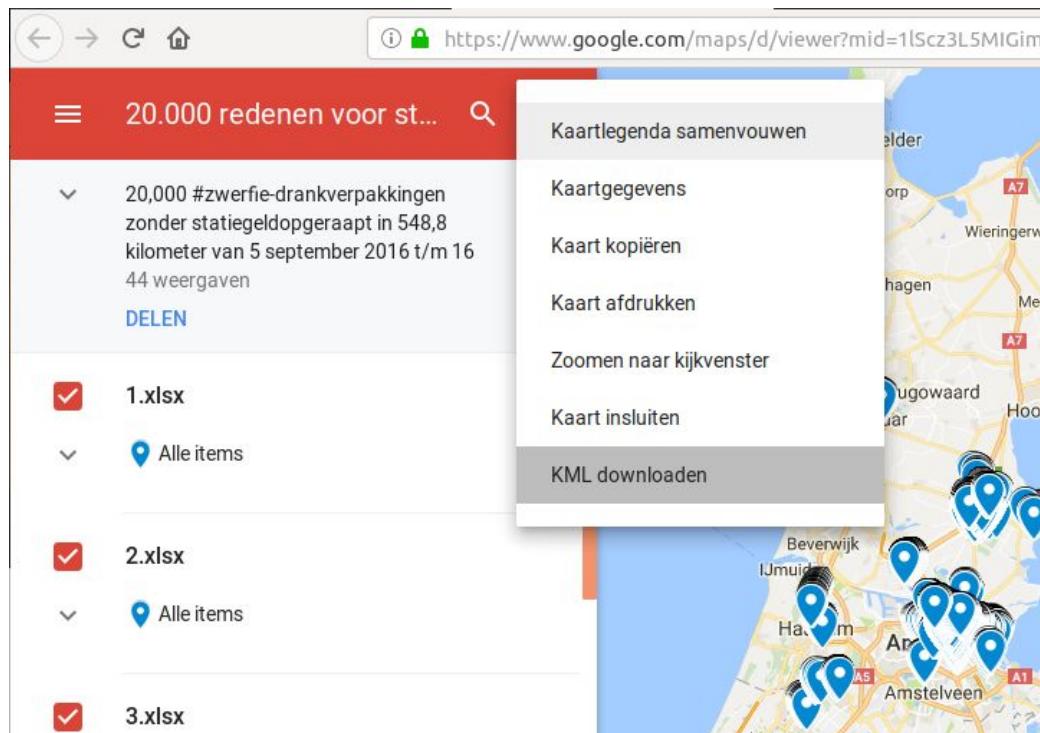
## 4 Data Management

Ga naar de website <http://zwerfinator.nl/>

Voor data:

<https://www.google.com/maps/d/viewer?mid=1lScz3L5MIGim2kWGzQsomDRFFW2zDUSS&ll=52.47337098333543%2C5.005257753500018&z=9>

→ Download de KML



→ Save de kml op ~/qgisworkshop/data

### Exporteren naar KML/KMZ

**Hele kaart**

- Houd gegevens up-to-date met KML via netwerklink (alleen online bruikbaar).
- Exporteren naar een KML-bestand (gebruik KMZ voor volledige pictogramondersteuning).

ANNULEREN

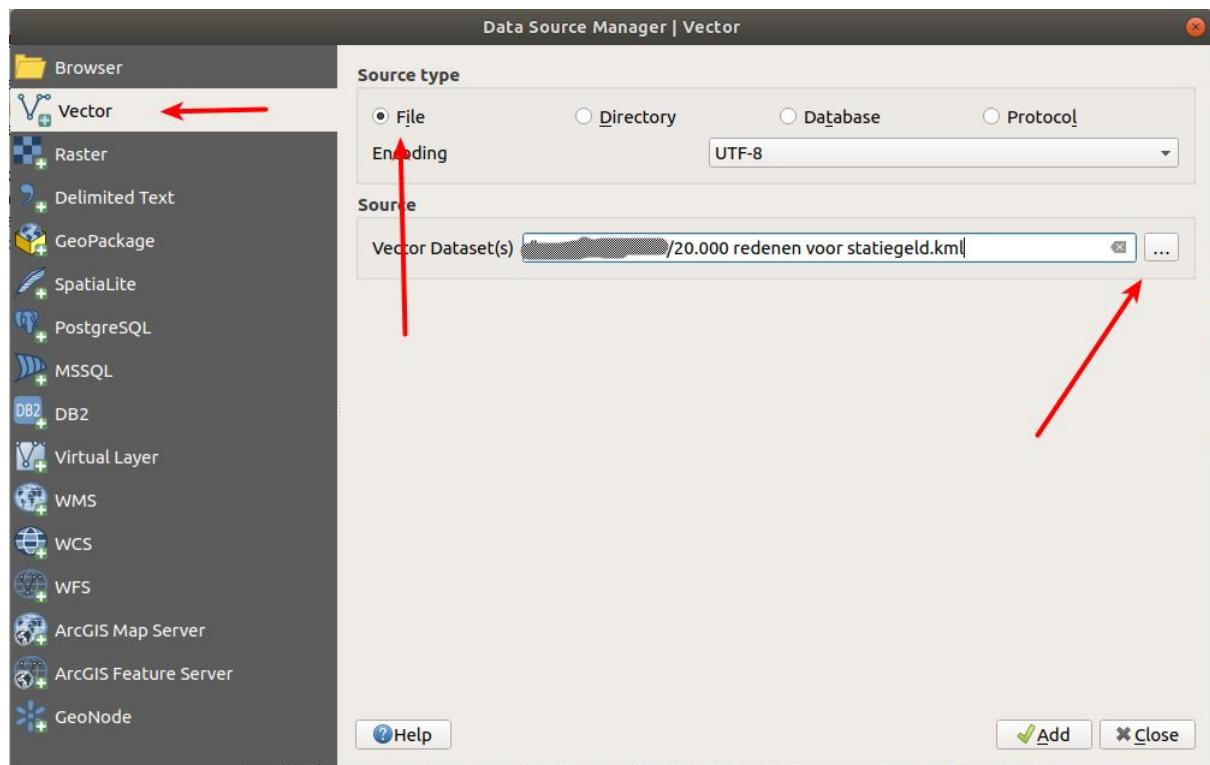
OK



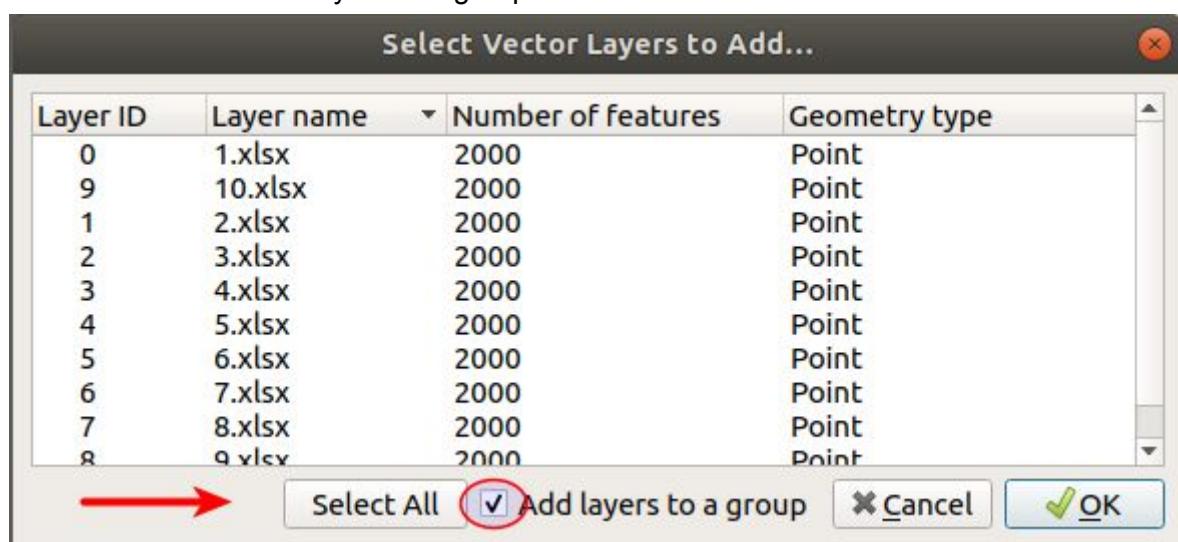
→ open de kml - 20.000 redenen voor statiegeld via de



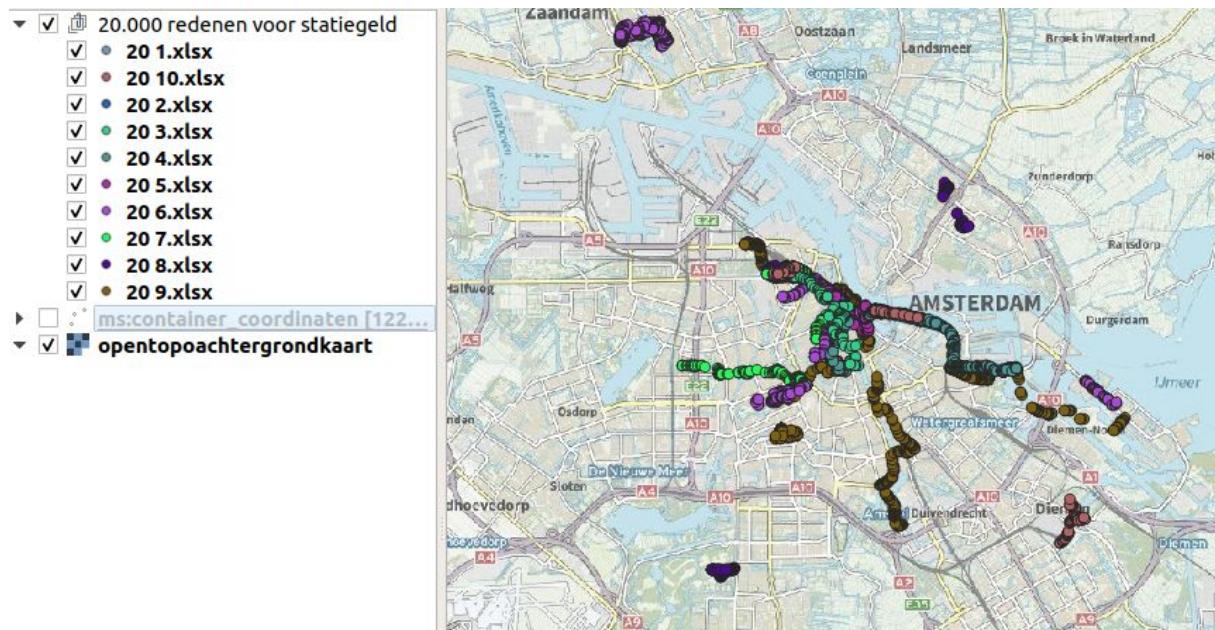
open vector - kies voor file - add



→ Select All - Add layers to a group



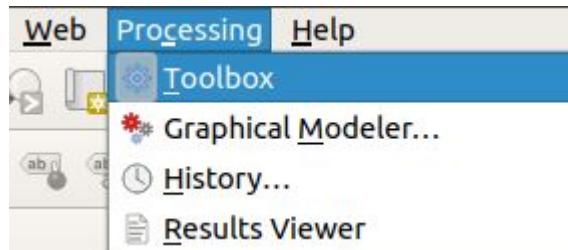
Resultaat:



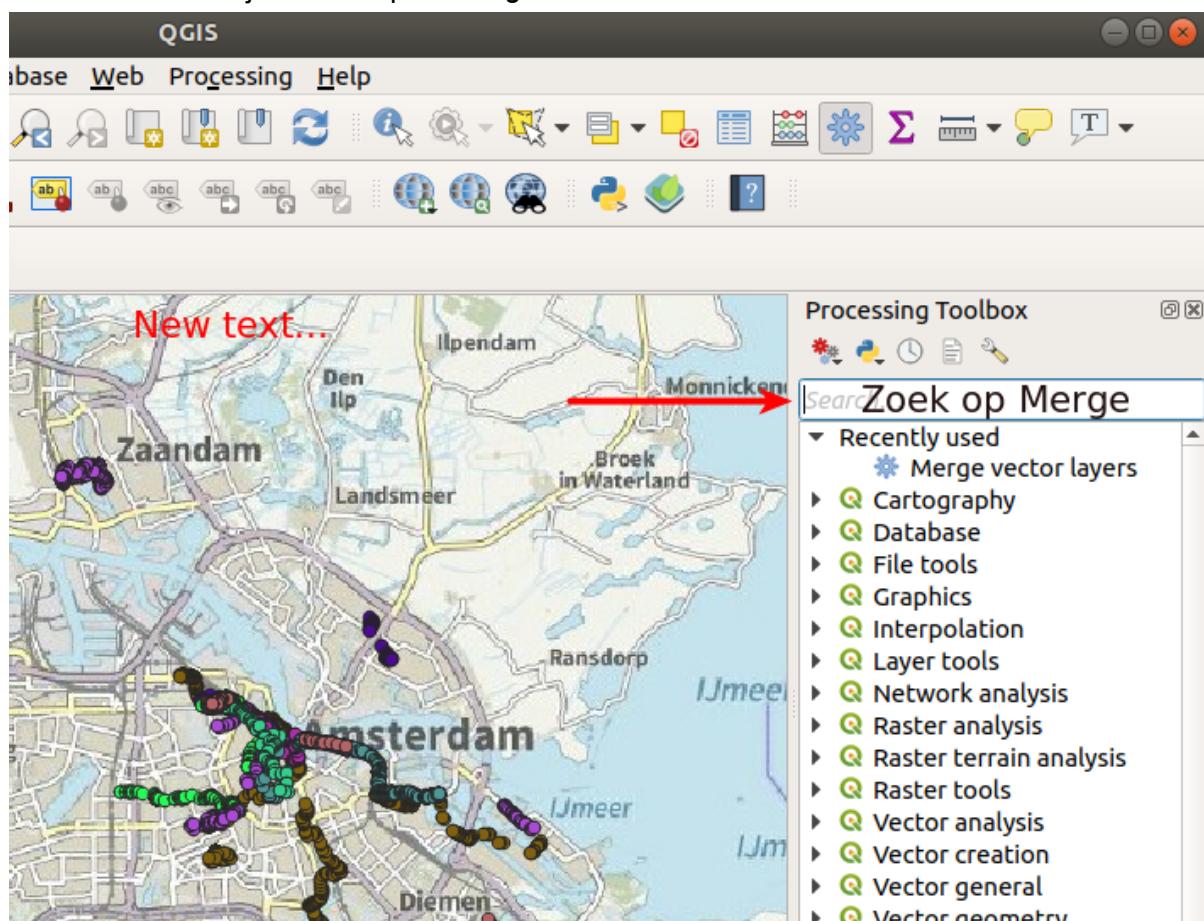


Onhandig dat het losse kml bestanden zijn, dit gaan we samenvoegen en in een database stoppen. :)

→ Stap 1. Open de Processing toolbox

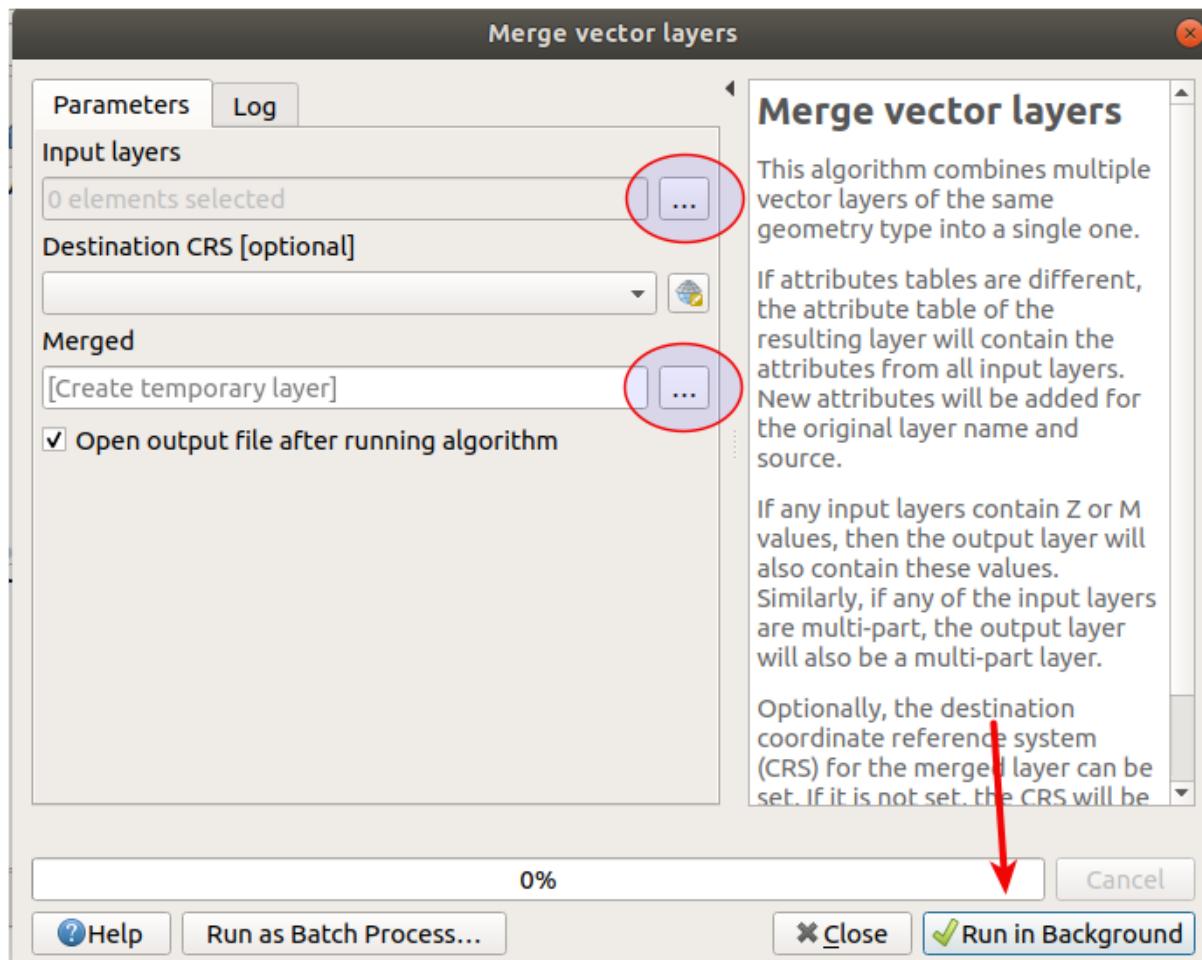


De toolbox verschijnt - zoek op de Merge - tool

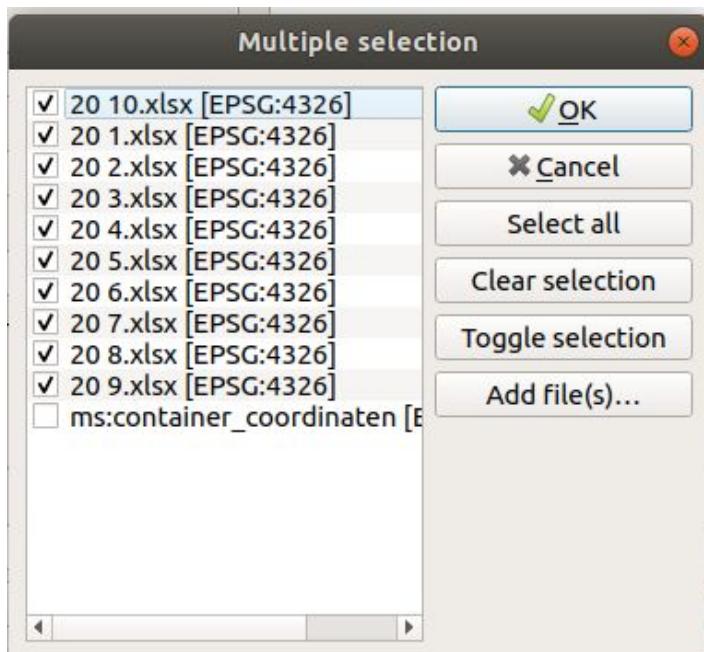




→ Input layer instellen & merged layer wegschrijven naar geopackage

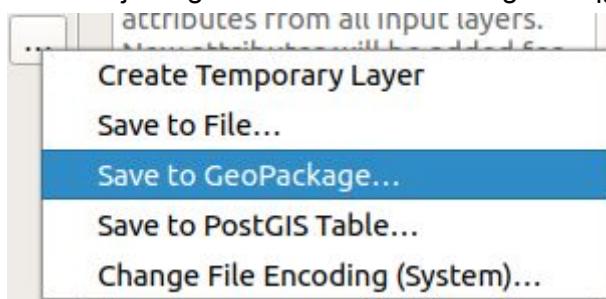


→ bij Input layers: Alle .xlsx aanvinken (Vergeet niet de containers uit te vinken)

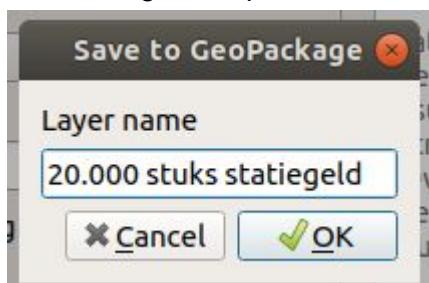




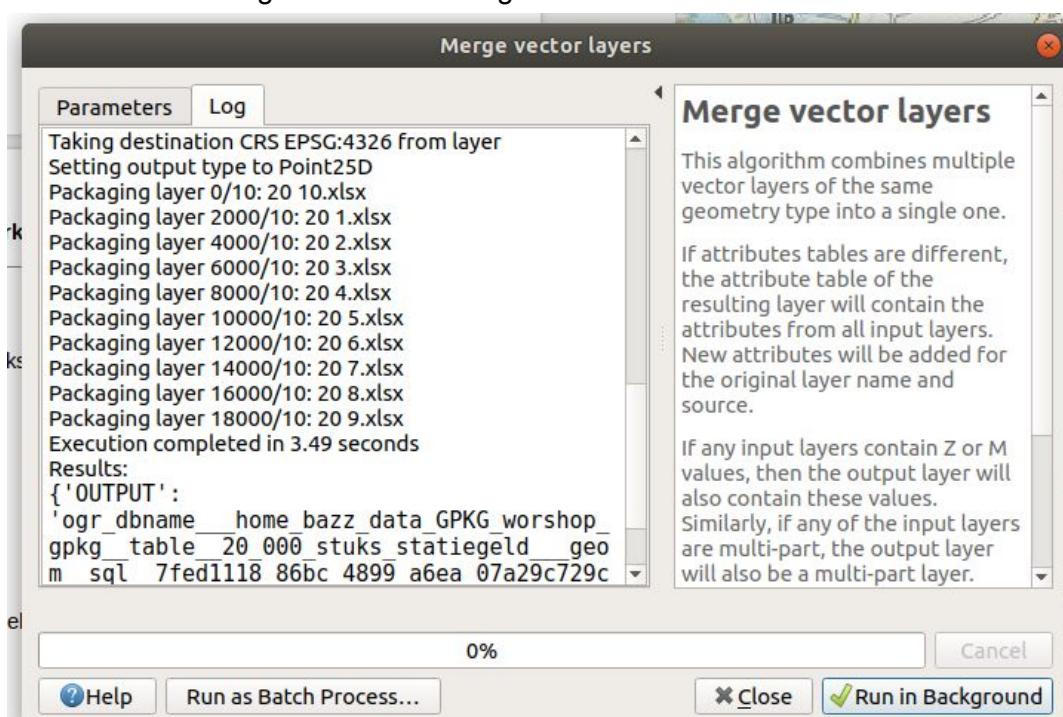
→ bij Merged - save to GeoPackage - ~/qgisworkshop/data/workshop-db.gpkg



→ en geef output filename - 20.000 stuks statiegeld

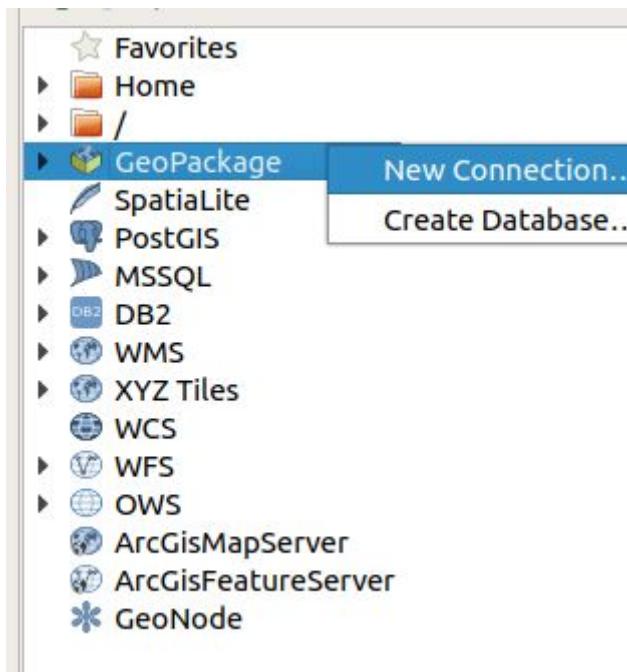


→ Run in Background om de Merge tool te draaien

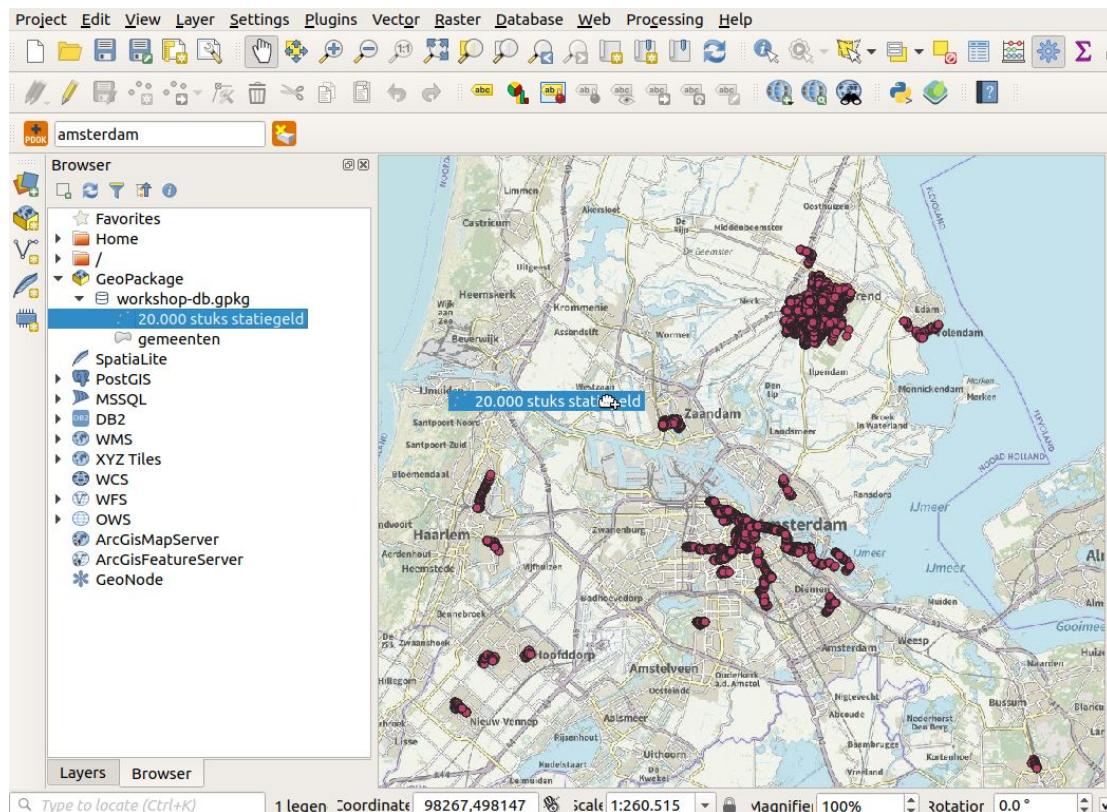




Via de Qgis-Browser maak een nieuwe connectie met GeoPackage en kies voor workshop-db.gpkg (~/qgisworkshop/data) folder



Nu kan je laag naar je canvas slepen (sleur en pleur)

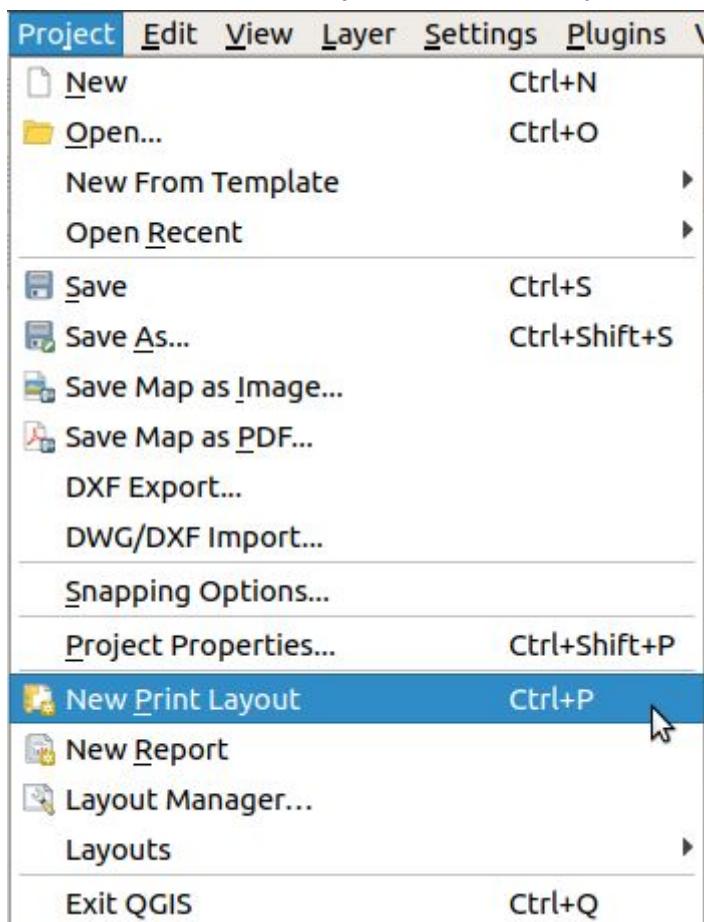


→ Delete/remove alle overige bestanden zoals - merged en de kml-file

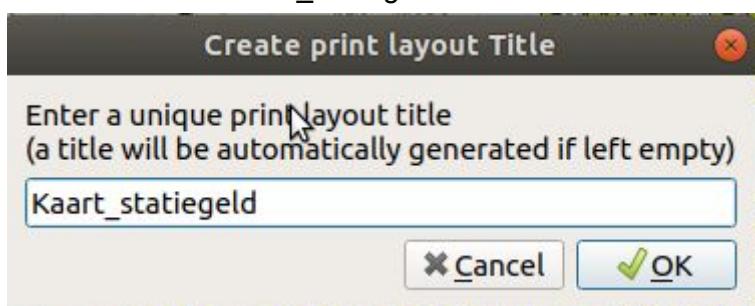


## 5 Kaarten Maken / Datavisualisatie

Kies in de menu balk - project - New Print Layout

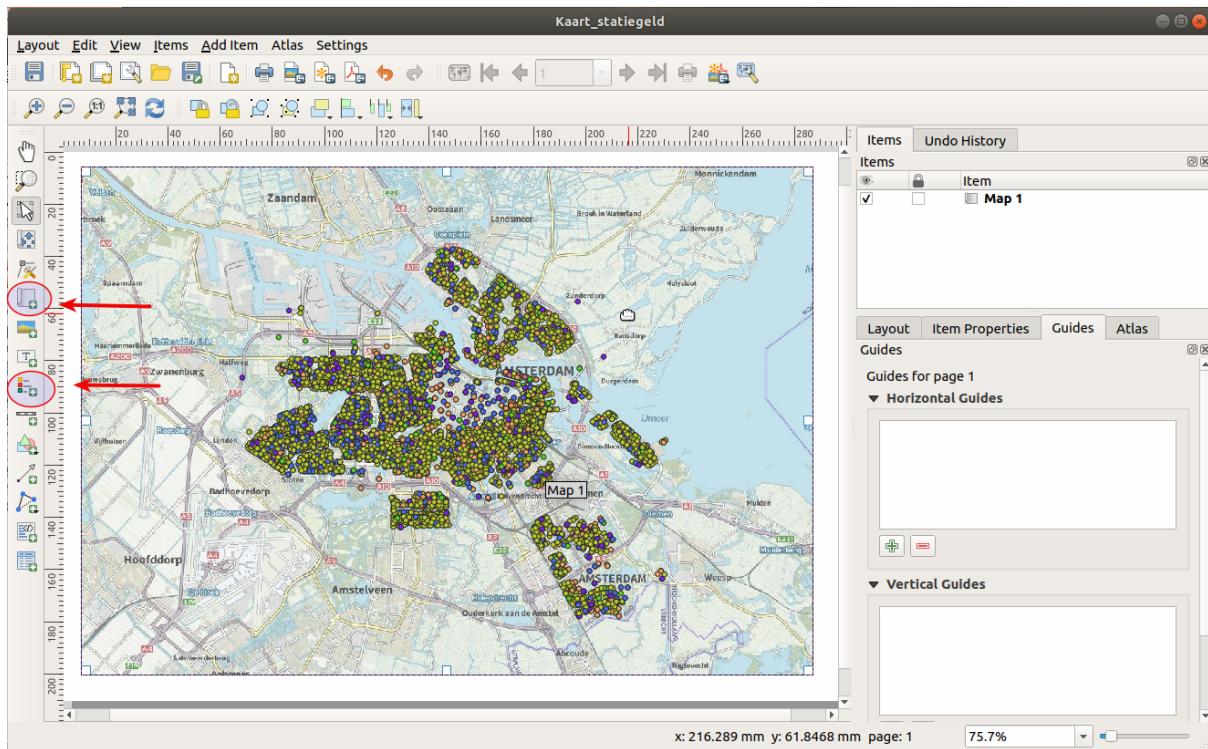


Geef een naam - kaart\_statiegeld



De Qgis kaart engine verschijnt en met een leeg vel nog.

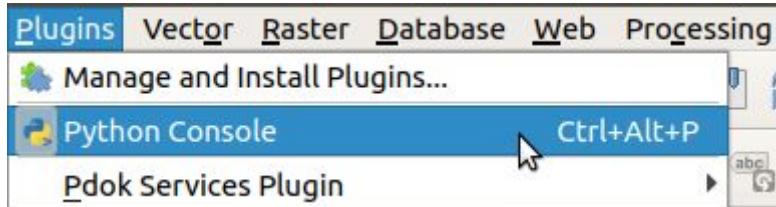
→ Trek een vierkant met  button en vierkantje met legenda tool



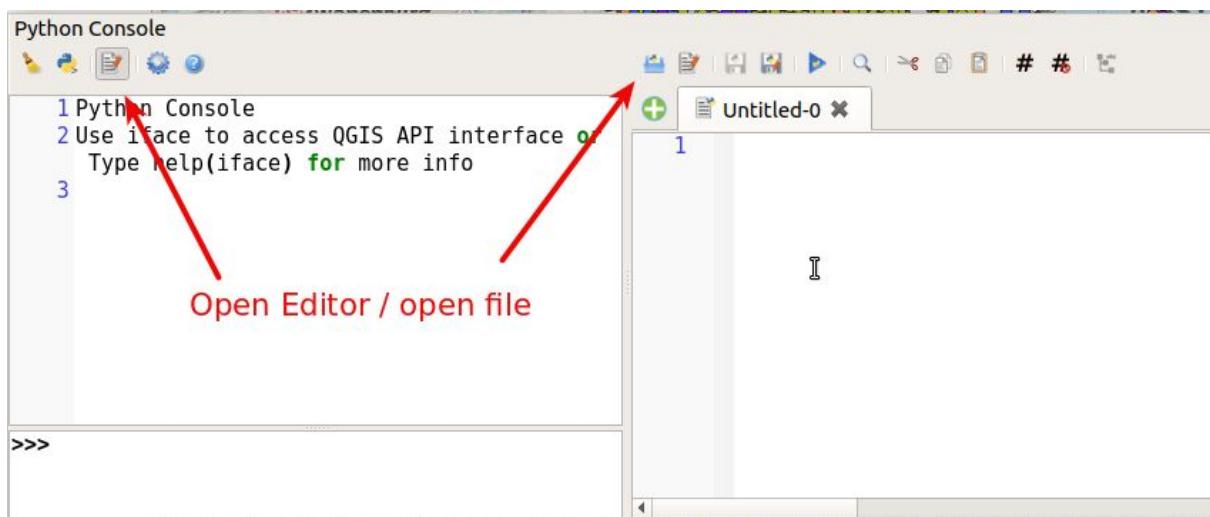


## 6 Een python script draaien

→ Open de python-console - menu plugins - python console



→ Open de python-editor - open file - ~/qgisworshop/scripts/basemap.py

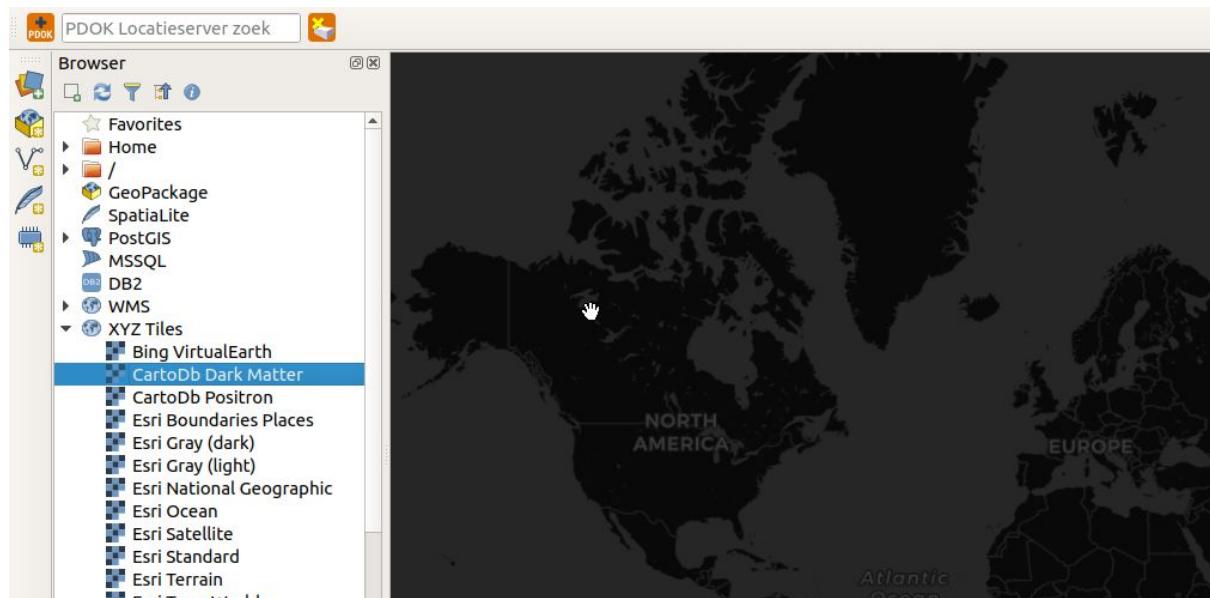


Run het script en zie wat er gebeurt.





In de browser - klap de XYZ Tiles uit - test er een door naar het canvas te slepen.



finish