

FOSS4G.NL 2017

QGIS Feature Frenzy



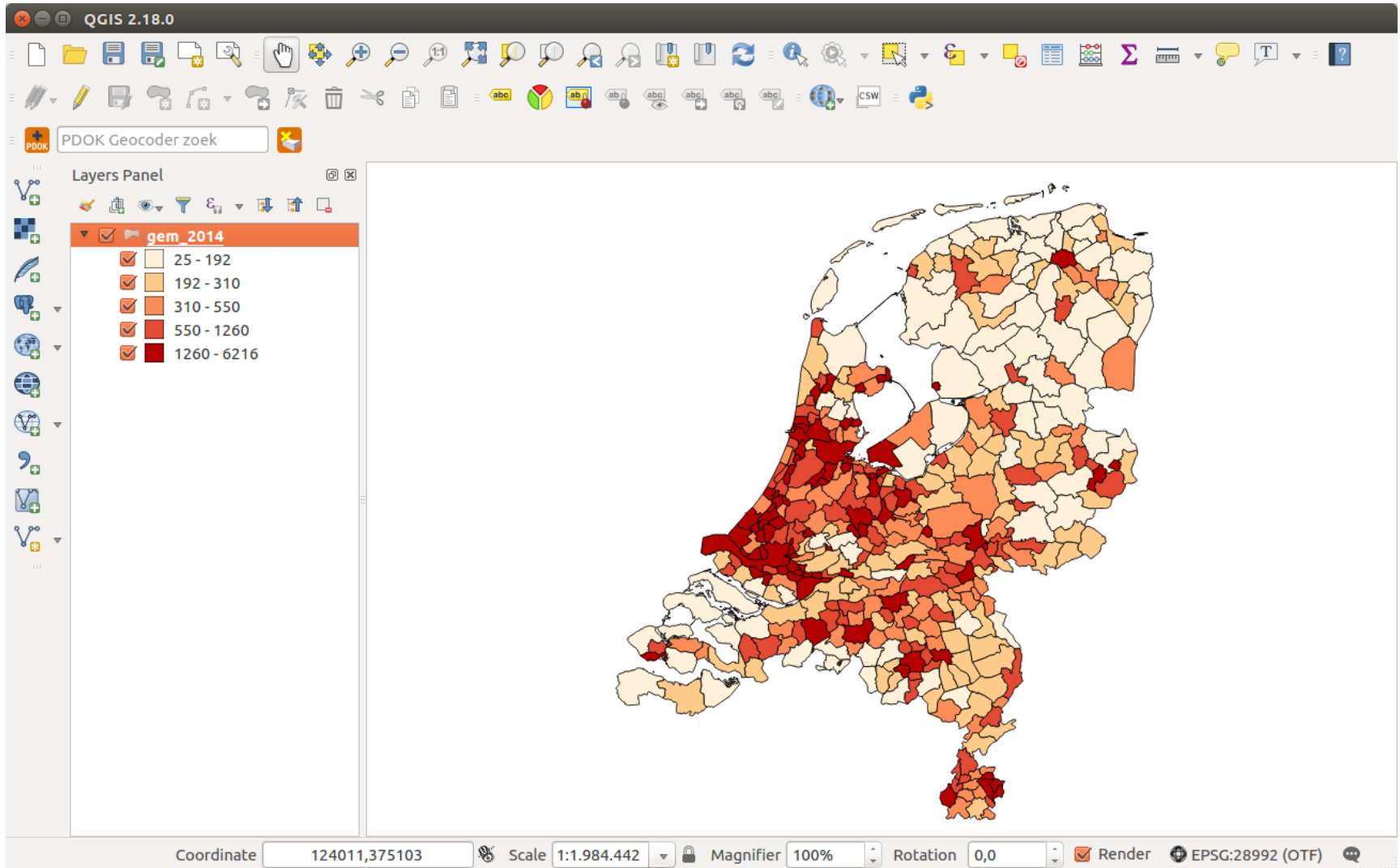
FOSS4G.NL 2017

QGIS Feature Frenzy



Raymond Nijssen
r.nijssen@terglobo.nl

QGIS



Sinds Geobuzz 2015



QGIS 2.16
Nødebo

QGIS 2.14
Essen
courtesy of Stadt Essen

QGIS 2.18
Las Palmas de G.C.

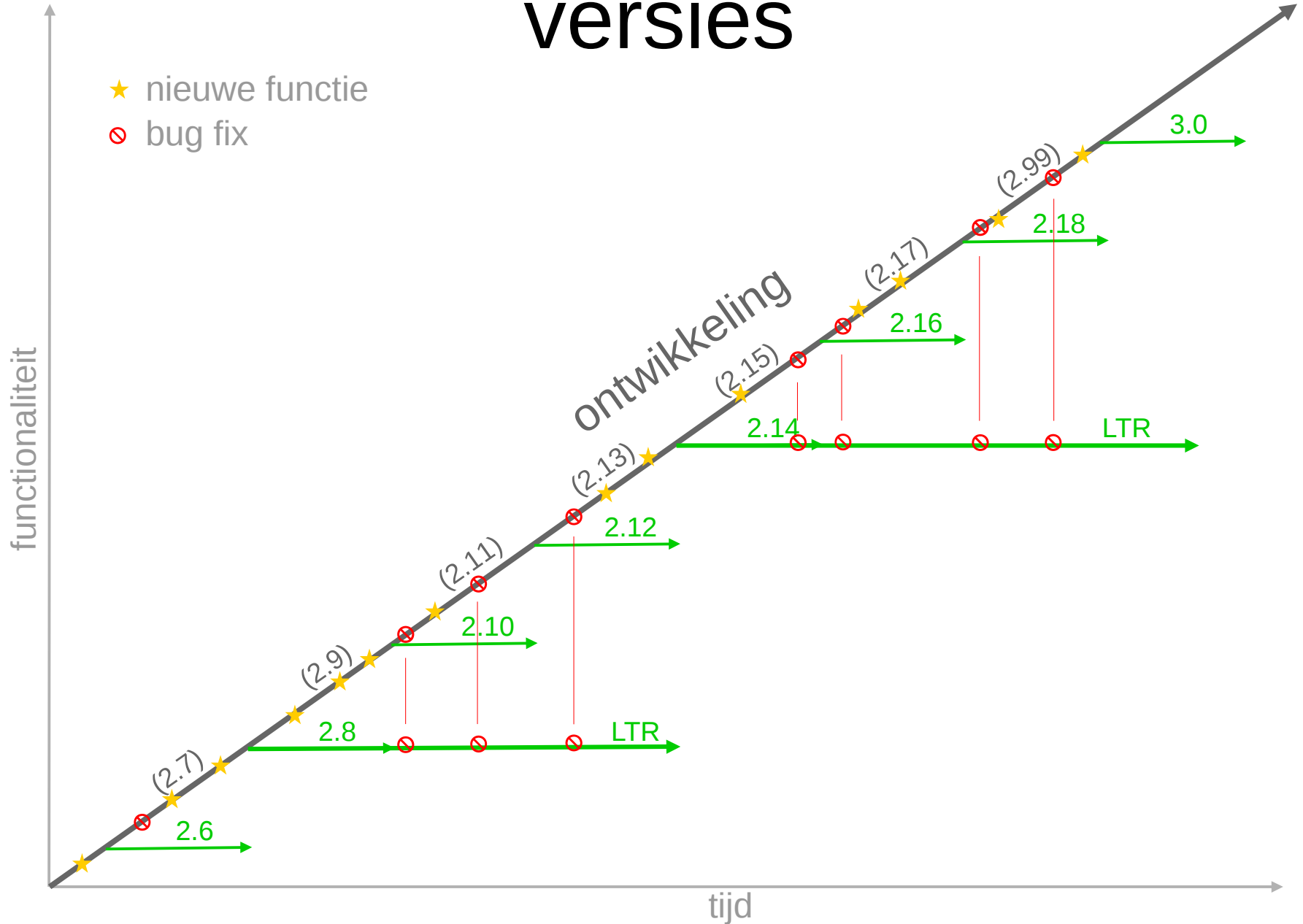
Sinds Geobuzz 2016

Logo

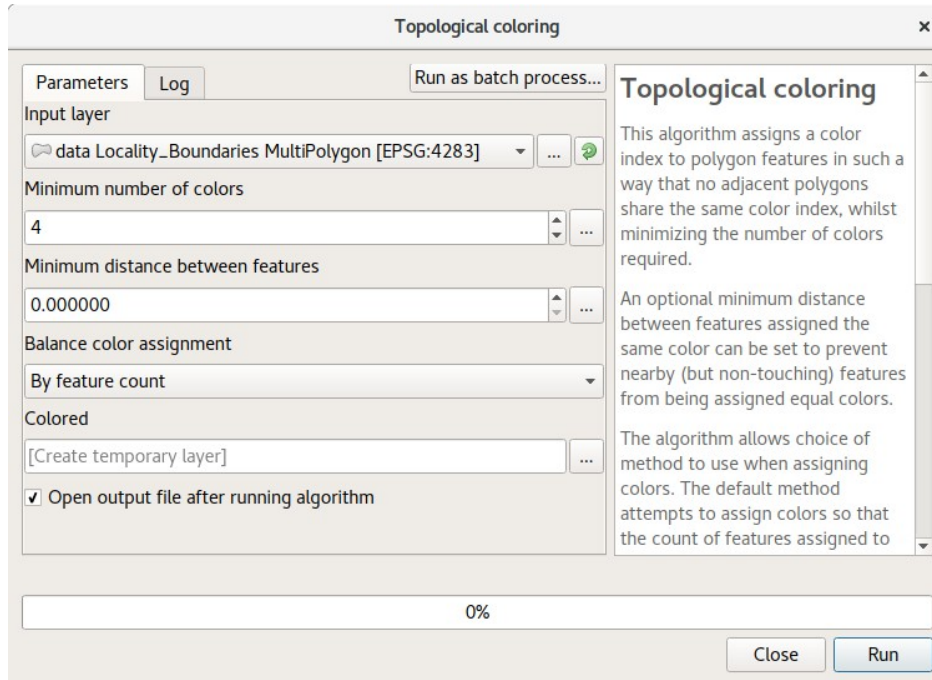
QGIS



versies

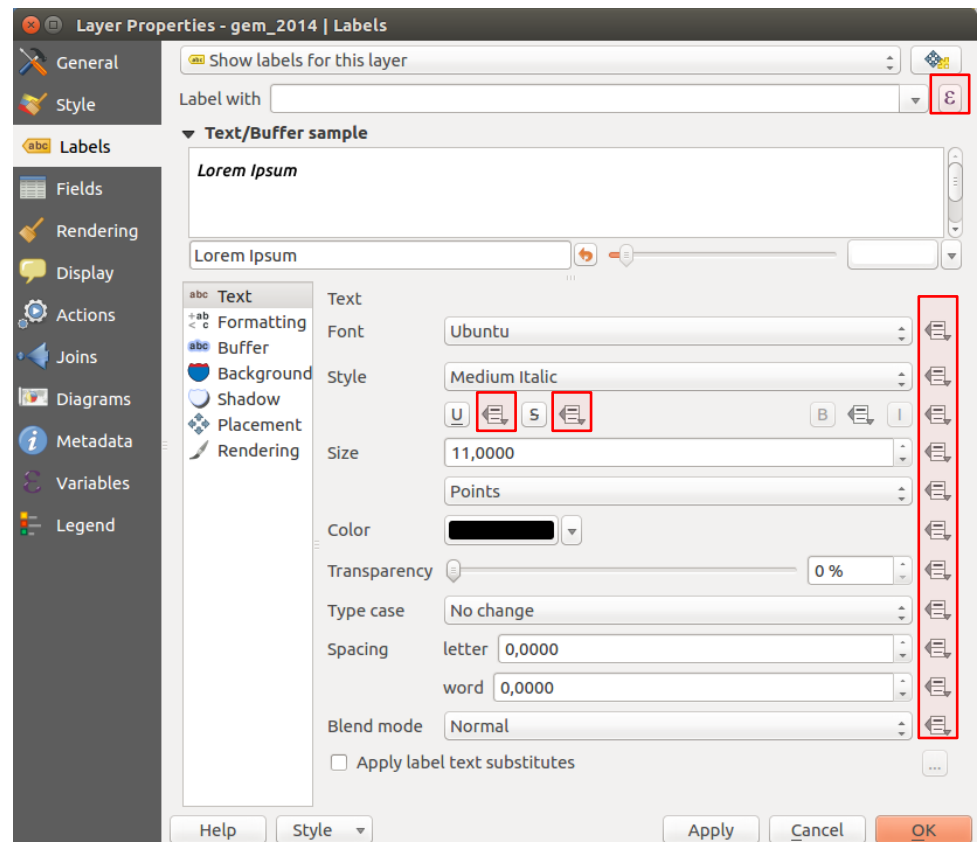


Cartographic algorithms

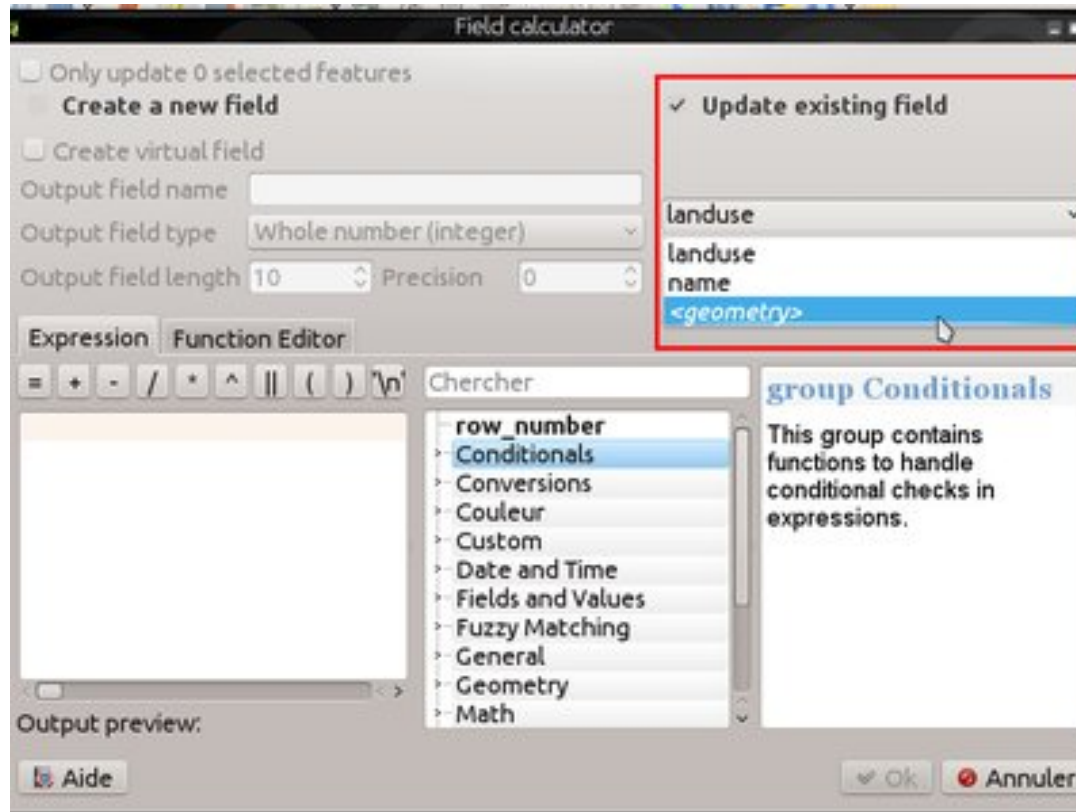


Expressies

- Meer “data defined”
- Uitbreidingen op expressies
- Dus meer “on-the-fly” visualiseren!

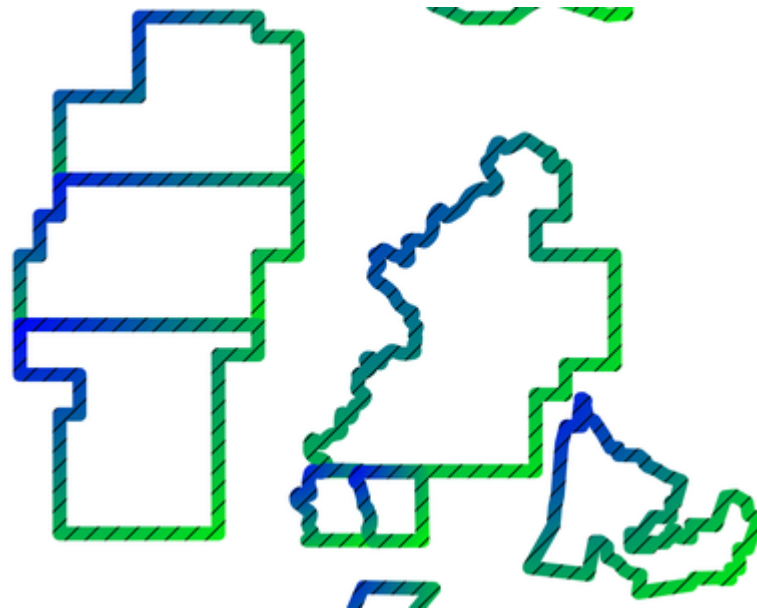


Expressies



Wijzig ook geometrie in veldcalculator

Expressies



Geometrie-generator symbologie

```
difference( buffer( $geometry , 250 ), buffer( $geometry, -250 ) )
```

Expressies



Geometrie-generator symbologie

Visualisatie



Placement

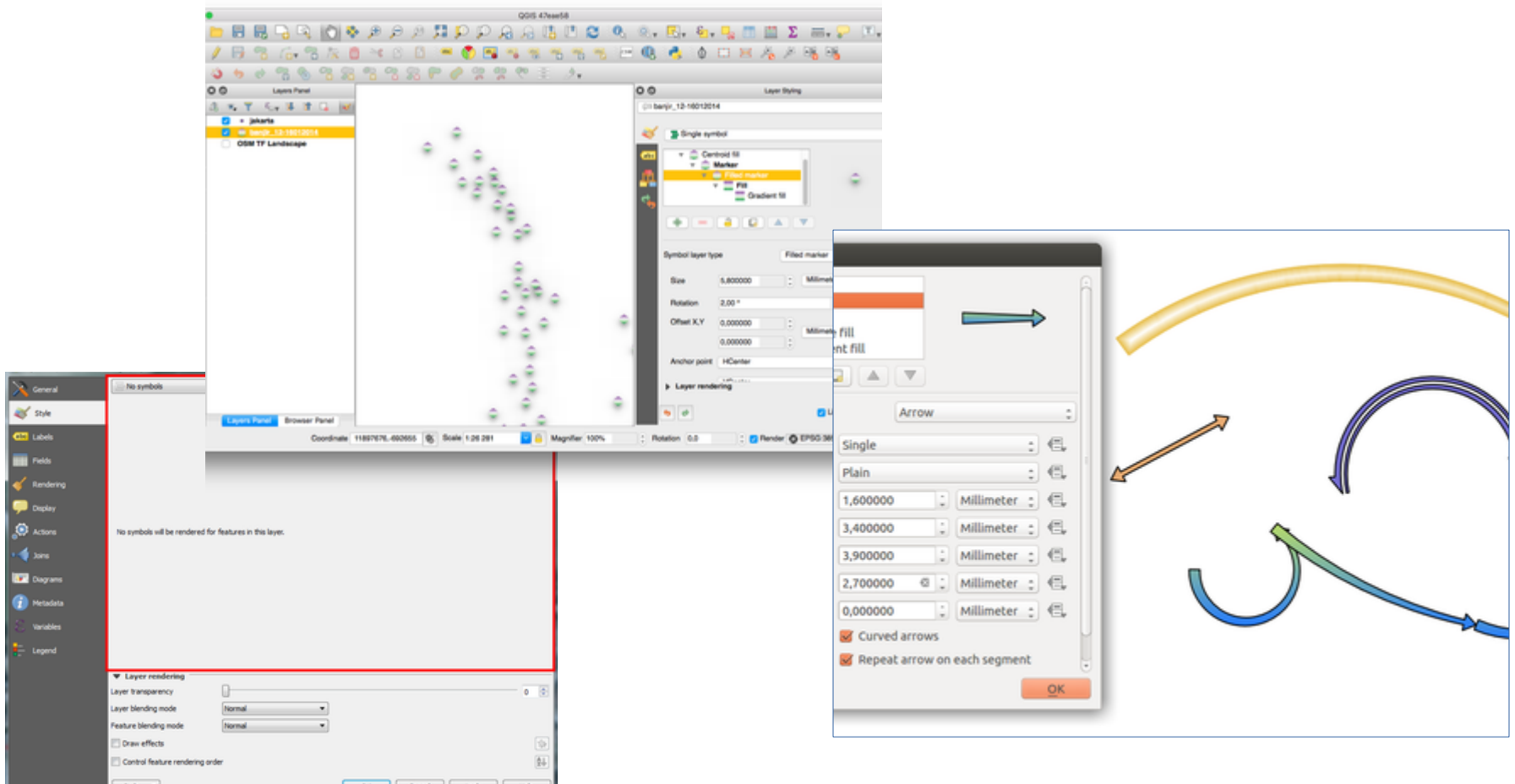
Cartographic Around point Offset from point

Distance

Distance offset from

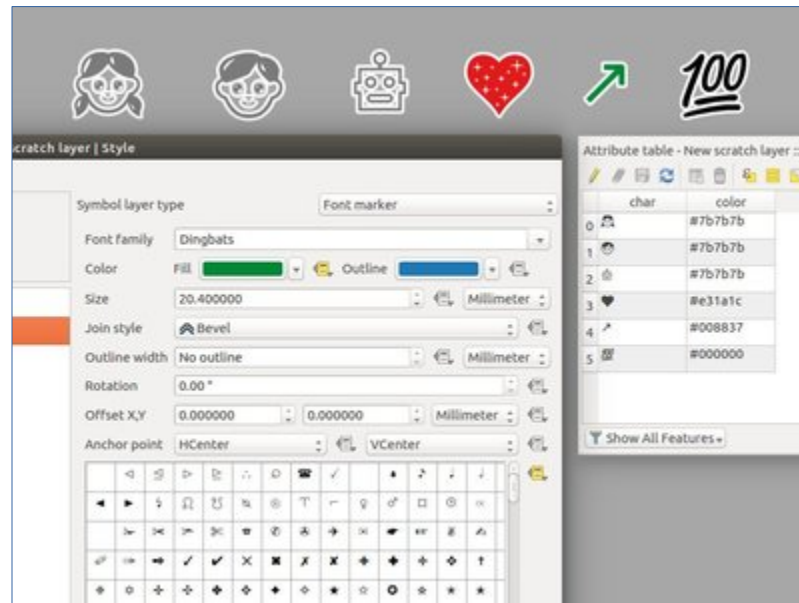
Veel nieuwe opties voor het labelen van punten en lijnen

Visualisatie



Nieuwe symbologie-types:
Pijlen, gevulde puntsymbolen, “geen symbolen”

Visualisatie



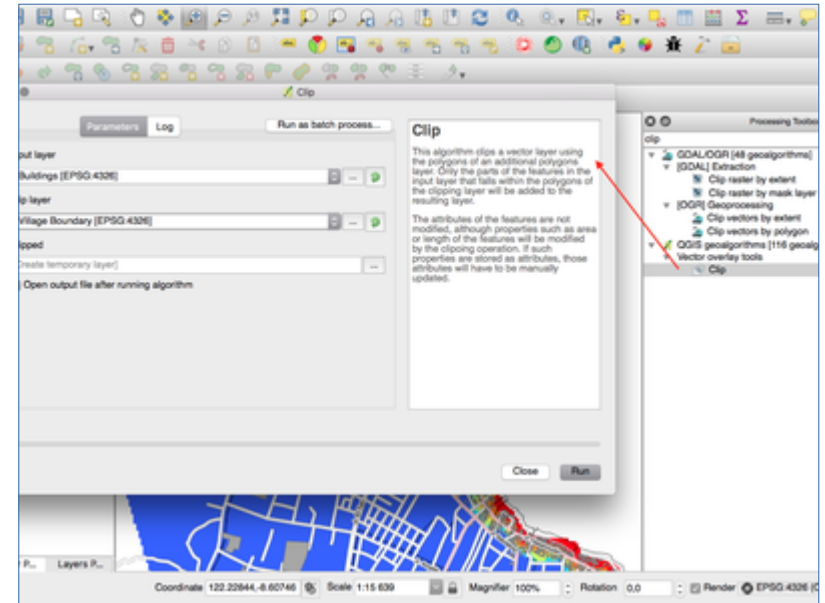
Puntsymbol "buffer"

Data

`http://c.tile.openstreetmap.org/{z}/{x}/{y}.png`

Speed up

- Objectselecties
- WMS Capabilities gecached
- OTF-generalisatie
- Clip-algoritme



Scripts

- Wie können er programmieren?
- Wie in Python?
- Wie in QGIS?
- Scripts?
- Plugins?

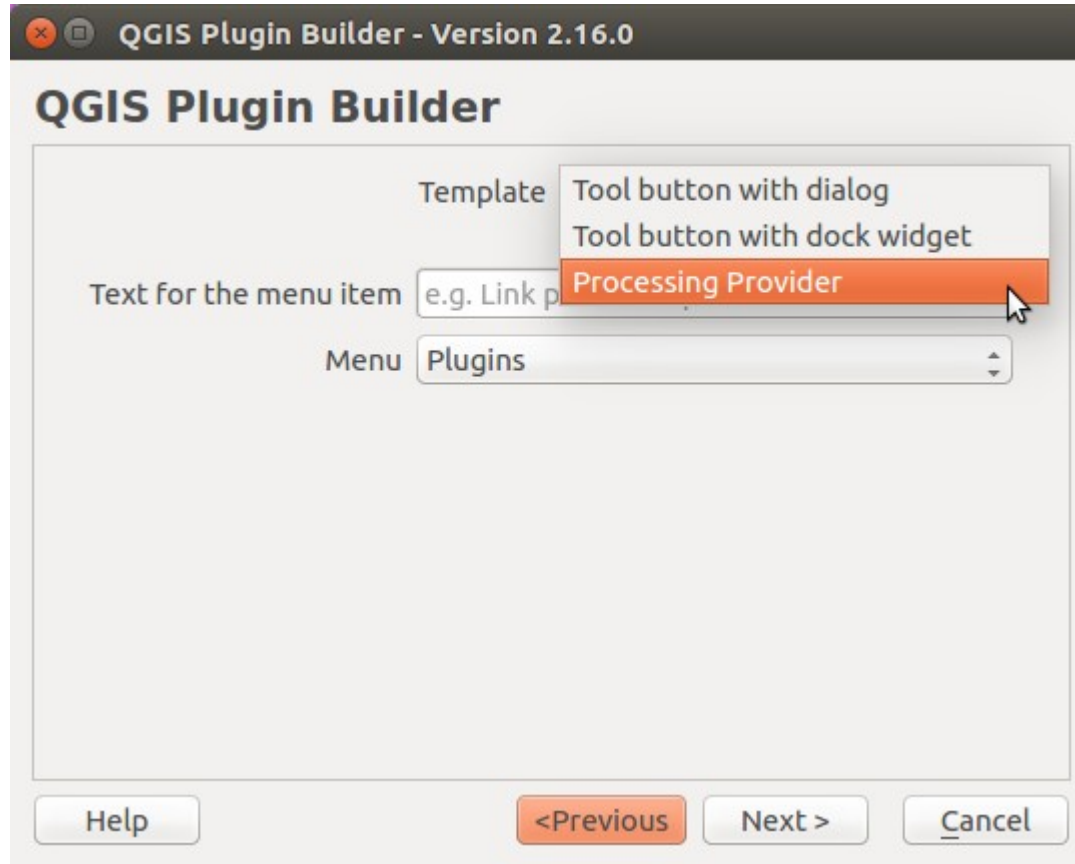
```
gPnt = QgsGeometry.fromPoint(QgsPoint(1,1))
gLine = QgsGeometry.fromPolyline([QgsPoint(1, 1), QgsPoint(2, 2)])
gPolygon = QgsGeometry.fromPolygon([[QgsPoint(1, 1), QgsPoint(2, 2),
                                     QgsPoint(2, 1)]])
```

Scripts

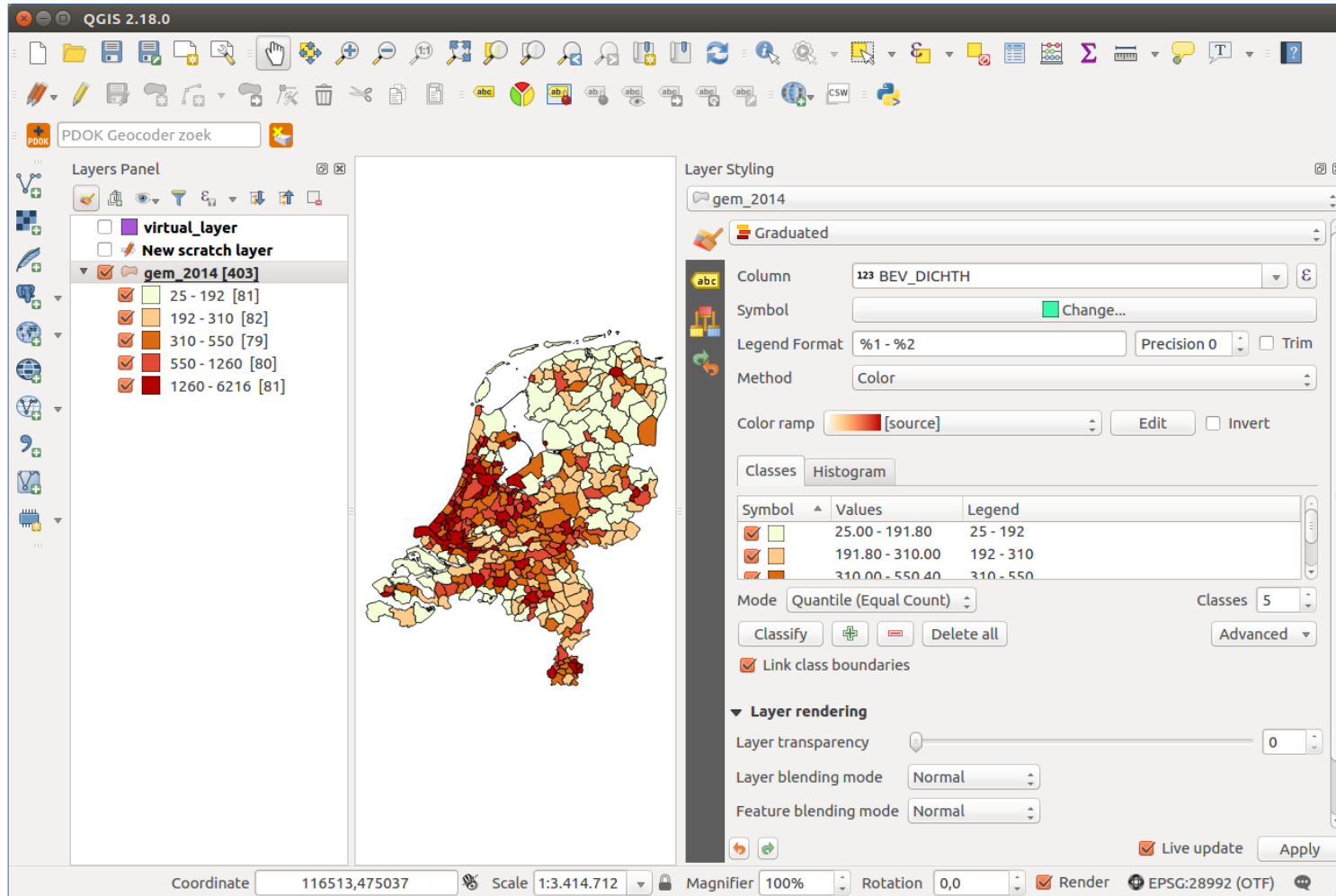
```
1 | for feature in vector_layer.getFeatures():  
2 |     if not feature.id() in vector_layer.selectedFeaturesIds():  
3 |         continue  
4 |  
5 |     # do something with the feature
```

```
1 | request = QgsFeatureRequest().setFilterExpression('my_field > 20')  
2 | for feature in vector_layer.getFeatures(request):  
3 |     # do something with the feature
```

Processing Provider Plugin



Cool stuff



Paneel "Layer Styling" met voorvertoning

Bekijk visual change logs

- <https://qgis.org/en/site/forusers/visualchangelog214/>
- <https://qgis.org/en/site/forusers/visualchangelog216/>
- <https://qgis.org/en/site/forusers/visualchangelog218/>

QGIS 3

- QT5 + Python3
- September 2017
- Niet backwards compatible
- Python plugins werken niet meer



```
Python Console
Python Console
2 Use iface to access QGIS API interface
  r Type help(iface) for more info
3 >>> print "Hello world"
4 Hello world
5 >>> print("Hello world")
6 Hello world
7
>>> |
```

Ruimtelijke Plannen plugin

The screenshot shows the QGIS 18.7 interface with the Ruimtelijke Plannen plugin active. The 'Bestemmingsplan code' button is highlighted in red. The map displays a detailed urban plan with various colored zones and building footprints. The 'Paneel Lagen' on the left lists several layers including 'app:Bestemmingsplangebied' and 'opentopoachtergrondkaart'.

Paneel Lagen

- NLIMRO.0796.0002120-1402
 - app:Functieaanduiding
 - app:Maatvoering
 - app:Bouwaanduiding
 - app:Bouwvlak
 - app:Dubbelbestemming
 - app:Enkelbestemming
 - app:Bestemmingsplangebied
- opentopoachtergrondkaart

1 legenda-item verwijderd. Coördinaat 148848,412221 Schaal 1:4.821 Vergrootglas 100% Rotatie 0,0 (Her)teken EPSG:28992 (OTF)

Community!



Ervaringen



Ervaringen



Vragen

