



Neues in QGIS 2.2

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• Das QGIS Projekt

- › Intuitives, komplettes Desktop GIS
- › Erweiterbar mit Python und C++ Plugins
- › QGIS Server
- › Basiert auf C++, Qt und Python
- › Open Source / GNU GPL
- › Plattformen Windows, Linux, Mac OS
- › Umfangreiche Dokumentation
- › GUI ist übersetzt in mehr als 40 Sprachen



Community

- › **OSGEO Projekt**
- › **>500'000 Codezeilen (141 Personenjahre)**
- › **Aktive Anwender- und Entwickler-Community**
 - › >13 code maintainers responsible for different parts of the code
 - › Documentation team
 - › GUI translators
- › **Kommunikation über Mailinglisten, IRC**
- › **Zwei Entwicklertreffen pro Jahr**
- › **Support durch Community und zahlreiche Firmen**



Geo for All

- › Initiative von ICA und OSGeo (Sept. 2011)
- › Förderung von Open source, Open standards, und Open data in der GIS-Ausbildung
- › Heute 70 ICA-OSGeo Labs weltweit
- › >100 Labs in Sept. 2014
- › <http://www.geoforall.org/>



› **OGIS Project Steering Committee**

- › Gary Sherman, US (Vorsitz)
- › Marco Hugentobler, CH (Technischer Leiter)
- › Tim Sutton, ZA (Tests/QS)
- › Otto Dassau, DE (Community)
- › Paolo Cavallini, IT (Finanzen/Marketing)
- › Anita Graser, AT (Design)
- › Richard Duivenvoorde, NL (Infrastruktur)
- › Jürgen Fischer, DE (Release-Manager)



Releases

- › **0.0.1-alpha** **Juli 2002**
- ...
- › **1.0.0** **Kore** **Januar 2009**
- › **1.1.0** **Pan** **Mai 2009**
- › **1.2.0** **Daphnis** **September 2009**
- › **1.3.0** **Mimas** **September 2009**
- › **1.4.0** **Enceladus** **Januar 2010**
- › **1.5.0** **Tethys** **Juli 2010**
- › **1.6.0** **Copiapó** **November 2010**



Releases

- › **1.7.0** **Wroclaw** **Juni 2011**
- › **1.8.0** **Lisboa** **Juni 2012**
- › **2.0.0** **Dufour** **September 2013**
- › **2.2** **Valmiera** **Februar 2014**



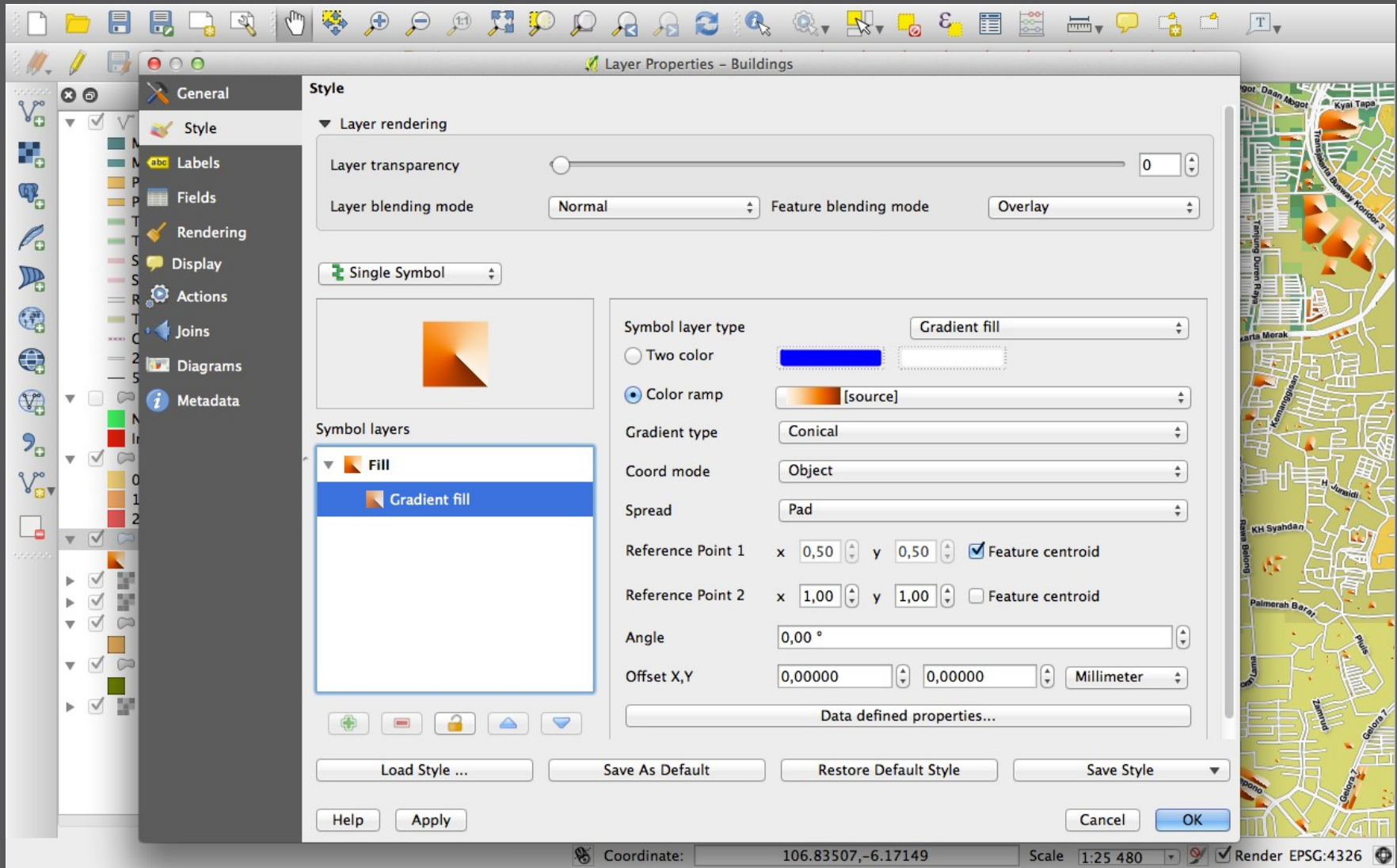
Release-Plan 2.x

› Release alle 4 Monate

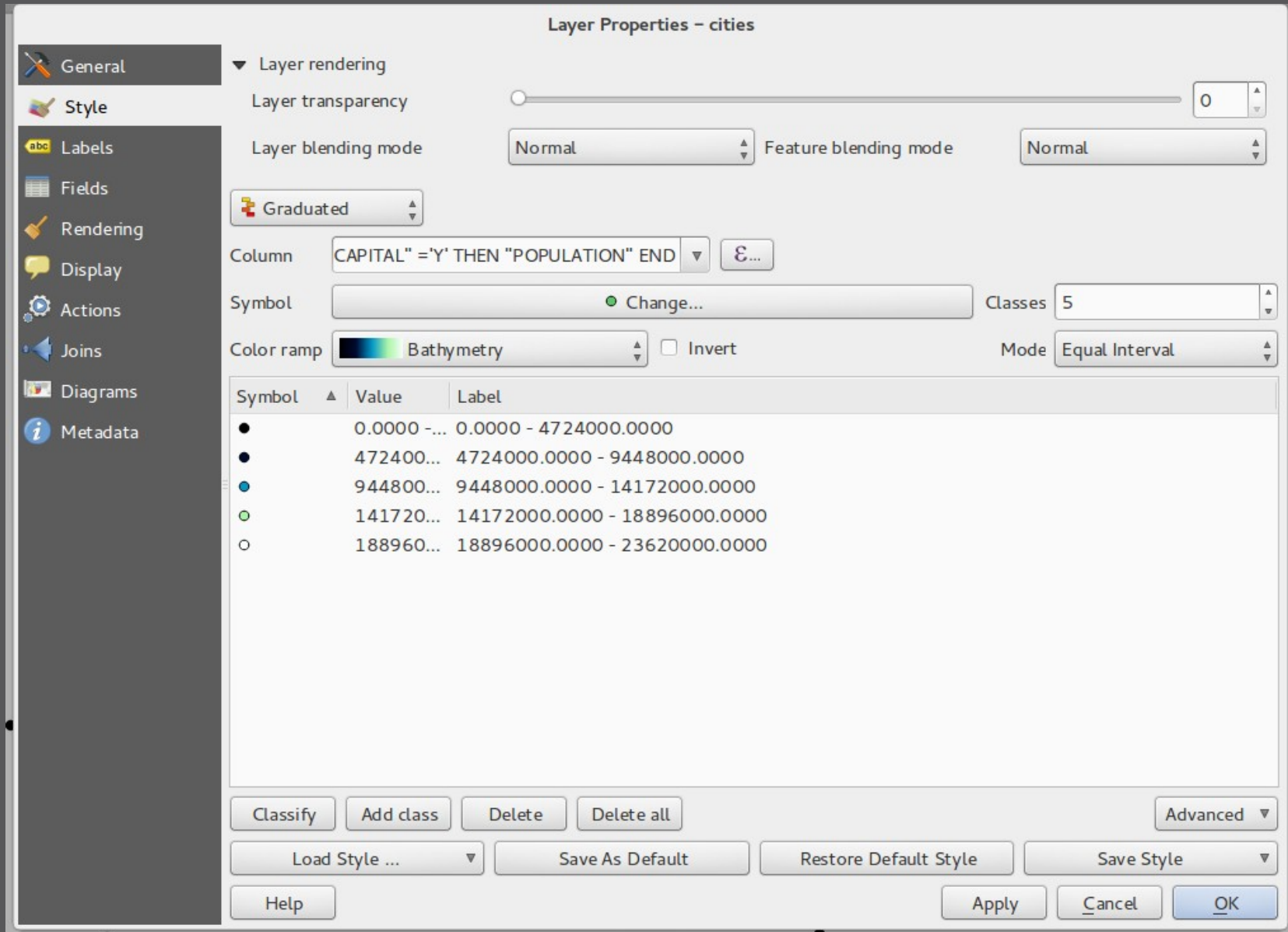
- › 21.02.14 QGIS 2.2
- › 20.06.14 QGIS 2.4
- › 24.10.14 QGIS 2.6



Gradient fill support



Thematic maps with expressions



Layer Properties - cities

General

Style

Labels

Fields

Rendering

Display

Actions

Joins

Diagrams

Metadata

Layer rendering

Layer transparency: 0

Layer blending mode: Normal

Feature blending mode: Normal

Graduated

Column: CAPITAL = 'Y' THEN 'POPULATION' END

Symbol: Change...

Classes: 5

Color ramp: Bathymetry

Invert:

Mode: Equal Interval

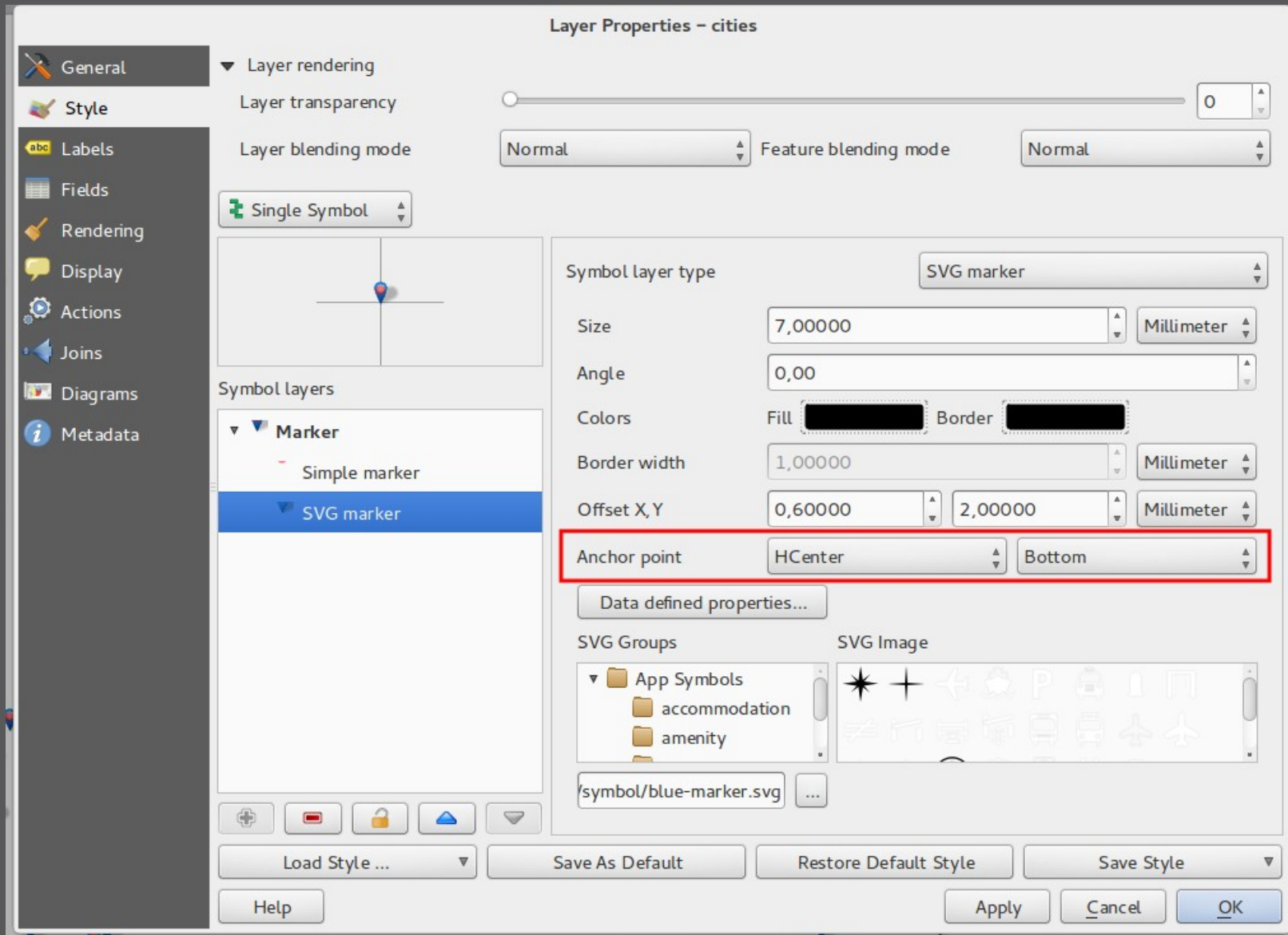
Symbol	Value	Label
●	0.0000 - ...	0.0000 - 4724000.0000
●	472400...	4724000.0000 - 9448000.0000
●	944800...	9448000.0000 - 14172000.0000
●	141720...	14172000.0000 - 18896000.0000
○	188960...	18896000.0000 - 23620000.0000

Classify Add class Delete Delete all Advanced

Load Style ... Save As Default Restore Default Style Save Style

Help Apply Cancel OK

Anchor points for marker layers



The screenshot shows the 'Layer Properties - cities' dialog box in QGIS. The 'Style' tab is active, and the 'Marker' layer type is selected. The 'Anchor point' settings are highlighted with a red box, showing 'HCenter' for the horizontal anchor and 'Bottom' for the vertical anchor. Other settings include 'Single Symbol' layer type, 'SVG marker' symbol layer type, 'Size' of 7,00000 Millimeter, 'Angle' of 0,00, 'Fill' and 'Border' colors, 'Border width' of 1,00000 Millimeter, and 'Offset X, Y' of 0,60000 and 2,00000 Millimeter. The 'SVG Image' section shows a list of symbols, with 'symbol/blue-marker.svg' selected.

Layer Properties - cities

General

Style

Labels

Fields

Rendering

Display

Actions

Joins

Diagrams

Metadata

Layer rendering

Layer transparency 0

Layer blending mode Normal

Feature blending mode Normal

Single Symbol

Symbol layer type SVG marker

Size 7,00000 Millimeter

Angle 0,00

Colors Fill [Black] Border [Black]

Border width 1,00000 Millimeter

Offset X, Y 0,60000 2,00000 Millimeter

Anchor point HCenter Bottom

Data defined properties...

SVG Groups

App Symbols

accommodation

amenity

SVG Image

/symbol/blue-marker.svg

Load Style ...

Save As Default

Restore Default Style

Save Style

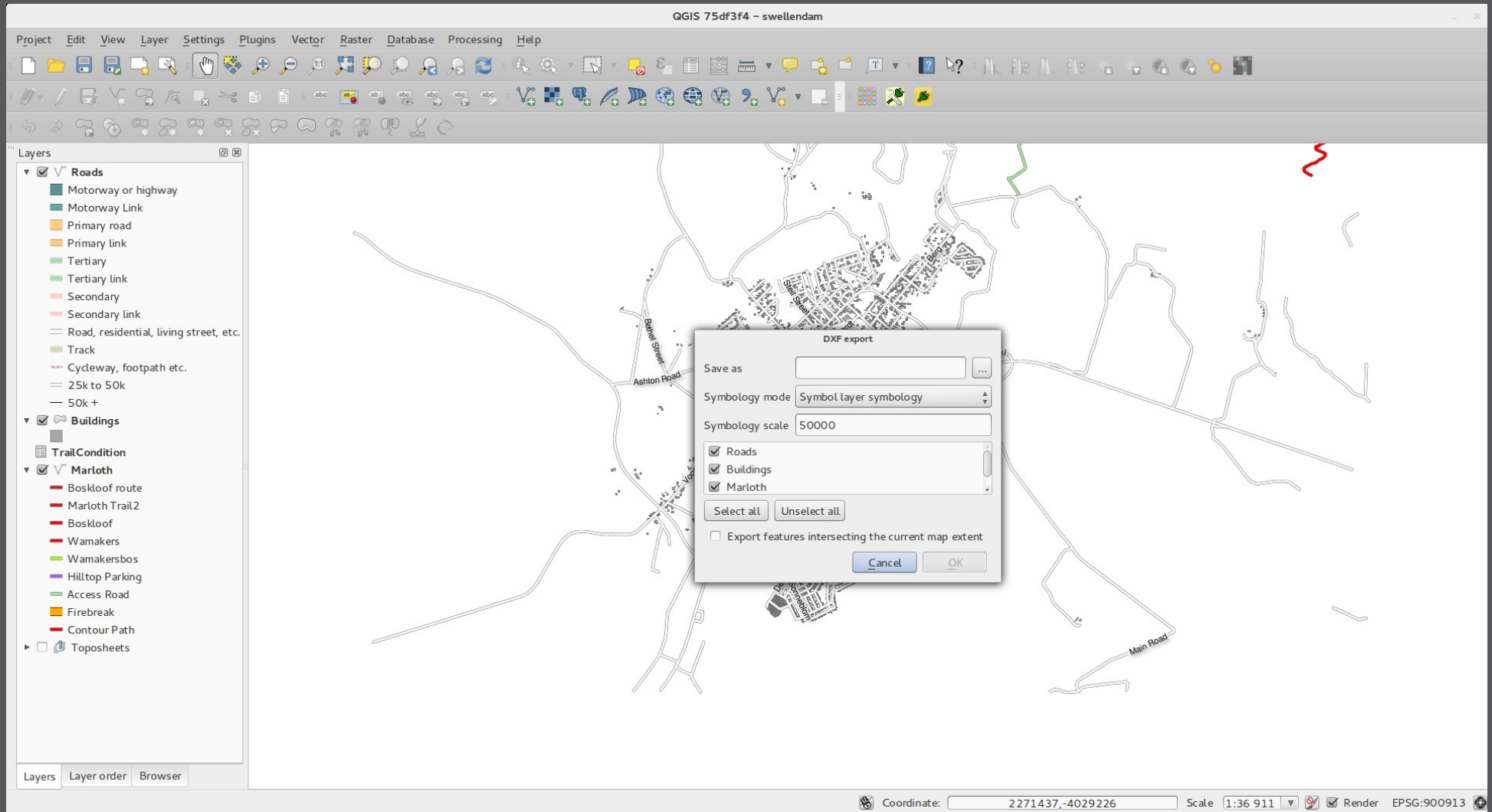
Help

Apply

Cancel

OK

DXF Export tool



Map Composer

The screenshot displays the QGIS Map Composer window, titled 'Composer 2'. The main canvas shows a topographic map of Swellendam, South Africa. A red boundary outlines a specific area, and a yellow arrow points to a label 'Wamakersbos' within this area. Other labels on the map include 'Tienuurkop', 'Berg Street', 'Cape Mountains and Little Karoo', and 'Cape Coastal Forelands'. The map is overlaid on a grid with a ruler at the top and left. The right-hand panel shows the 'Item Properties' for a 'Label' element, with the text 'Swellendam, South Africa'. The 'Main properties' section is expanded, showing the text content. Below this, there are buttons for 'Render as HTML', 'Insert an expression', 'Font', and 'Font color...'. The 'Alignment' section is also expanded, showing options for 'Horizontal' (Left, Center, Right) and 'Vertical' (Top, Middle, Bottom). The 'Display' section is expanded, showing options for 'Position and size', 'Frame', 'Background', 'Item ID', and 'Rendering'. The status bar at the bottom left shows the page dimensions: 'x: 344.752 mm y: 53.7104 mm page: 1' and a zoom level of '100.0%'.



NTv2 transformations

The image shows two overlapping dialog boxes in QGIS. The background dialog is 'Options | CRS', and the foreground dialog is 'Select datum transformations for layer fluesse'.

Options | CRS Dialog:

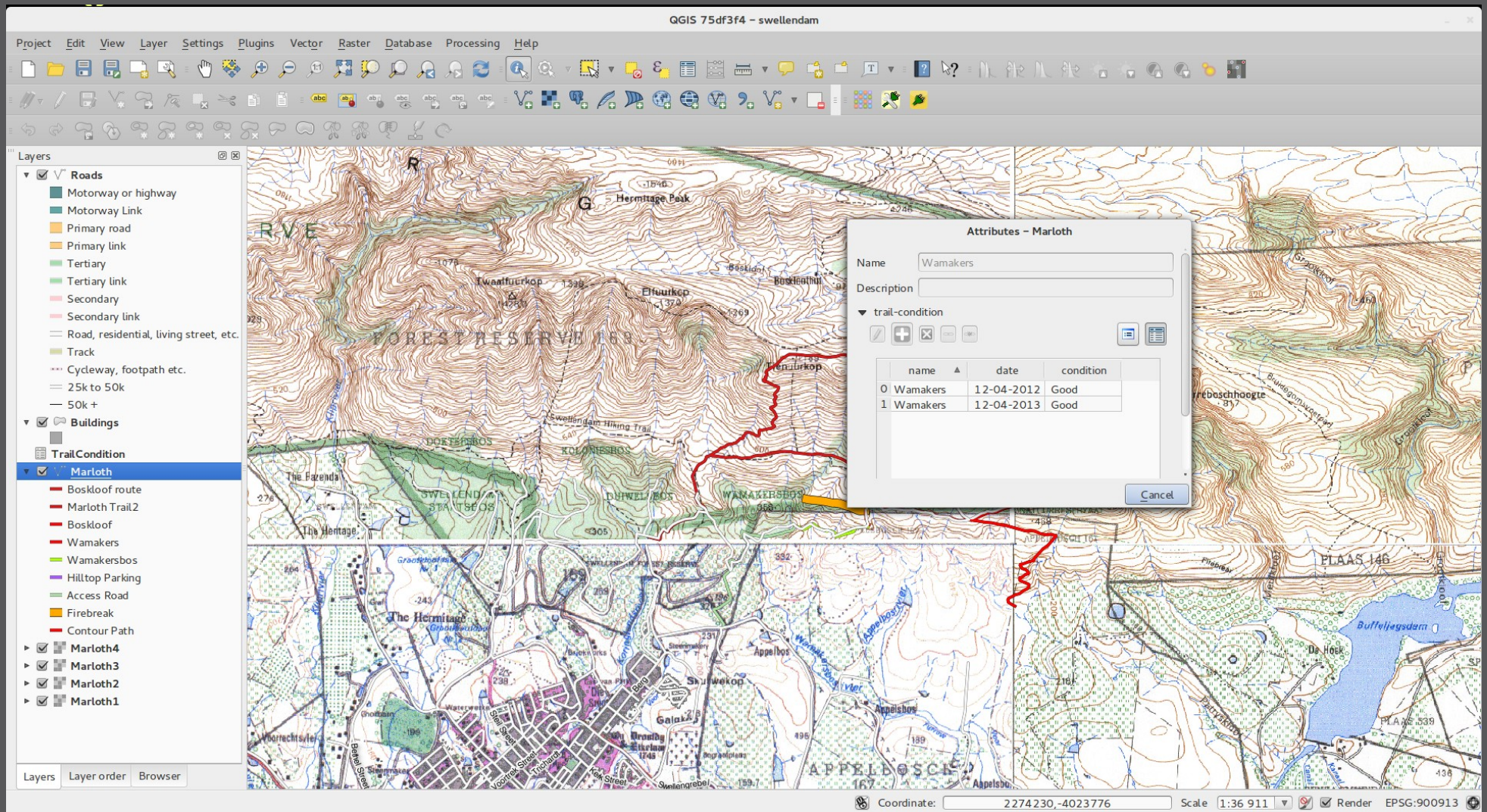
- Use project CRS:
- Use default CRS displayed below:
- CRS: EPSG:21781 - CH1903 / LV03
- Default datum transformations:
 - Ask for datum transformation when no default is defined:
 - Buttons:
 - Table with columns: Source CRS, Destination CRS, Source datum tran, Destination datum transform

Select datum transformations for layer fluesse Dialog:

src transform	dst transform
+nadgrids=CHENYX06a.qsb	
+nadgrids=chenyx06etrs.gsb	
+towgs84=674.4,15.1,405.3	+towgs84=674.374,15.056,405.346
+towgs84=660.077,13.551,369.344,-0.804816,-0.577692,-0.952236,5.66	+towgs84=674.374,15.056,405.346
+towgs84=660.077,13.551,369.344,-0.804816,-0.577692,-0.952236,5.66	+towgs84=674.374,15.056,405.346
+towgs84=674.374,15.056,405.346	+towgs84=674.374,15.056,405.346

Remember selection:

One to many relations support



The screenshot displays the QGIS 2.18.16 interface with a topographic map of Swellendam. The 'Layers' panel on the left shows the 'TrailCondition' layer selected, with 'Marloth' as the active layer. The 'Attributes - Marloth' dialog box is open, showing a table of trail conditions for 'Wamakers'.

name	date	condition
0 Wamakers	12-04-2012	Good
1 Wamakers	12-04-2013	Good

The map shows various geographical features including 'Hermitage Peak', 'Wamakersbos', and 'Appelsbos'. The 'TrailCondition' layer is visualized with red lines representing different trail segments.



More in 2.2

- › Support for measurement in Nautical Miles
- › Paste as new vector layer
- › WMS legend graphic in table of contents and composer
- › Fill ring digitizing tool
- › Recent expressions saved
- › Paste WKT from clipboard
- › Zebra map border improvements



More in 2.2

- › **OGIS Server: WCS Support**
- › **Label support for palleted rasters**
- › **Colour ramps can be inverted**
- › **Copy and Paste in Rule based renderer**
- › **On the fly feature generalisation**
- › **Expression support in symbol diagrams for size and attributes**
- › **Else rule in rule based renderer**
- › **Inner stroke support for polygons**



More in 2.2

- › Expression dialog improvements
- › New keybindings



Ausblick 2.4

- **Multi-threaded Rendering**
 - Demo



Links

- **Homepage / Download**

- <http://qgis.org/>

- **Changelog:**

- <http://changelog.linfiniti.com/qgis/version/22/>



Danke!



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