

Joining data

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Overview

- Data verification
- Joining data in QGIS

Data verification

- Important phase when you receive data
 - Verify the well format structure
 - Verify the content
- Prevent errors
 - Software errors (*join doesn't work*)
 - Analysis errors (*spatial analysis doesn't work*)
 - Unexpected results

Data verification

- Field name never start with number (~~0_fieldname~~)
- Data type must be consistent (~~numeric field = ten~~)
- Date-time field with a properly format (~~yyyy-mm-dd~~)
- Coordinates with properly format, verify CRS (~~lat=1564.709~~)

Joining data in QGIS

Link to a geographic layer other information according to a key field


FARM DATA (with location)


<i>code:</i>	<u>001PD001</u>
<i>name:</i>	teo farm
<i>geom:</i>	<spatial data>

LABORATORIES DATA

<i>code:</i>	<u>001PD001</u>
<i>test HI:</i>	01/01/06
<i>result:</i>	positive
	...


points


Table, CSV, other format

 POSITIVE FARM (location + lab. results)

Joining data

Type of Join

- 1-1

<u>code</u>	geom
001RO134	...

<u>code</u>	result
001RO134	P

<u>code</u>	geom	result
001RO134	...	P

- 1-N

<u>code</u>	geom
001RO134	...

<u>code</u>	result	year
001RO134	P	2017
001RO134	N	2018

<u>code</u>	geom	result	year
001RO134	...	P	2017
001RO134	...	N	2018

In GIS work in 1-1 condition

Practical exercise (4.2)

4_2_ex_join.docx

- Join with CSV file (points)
- Join with CSV file (polygons)
- Apply a symbology to a joined layer