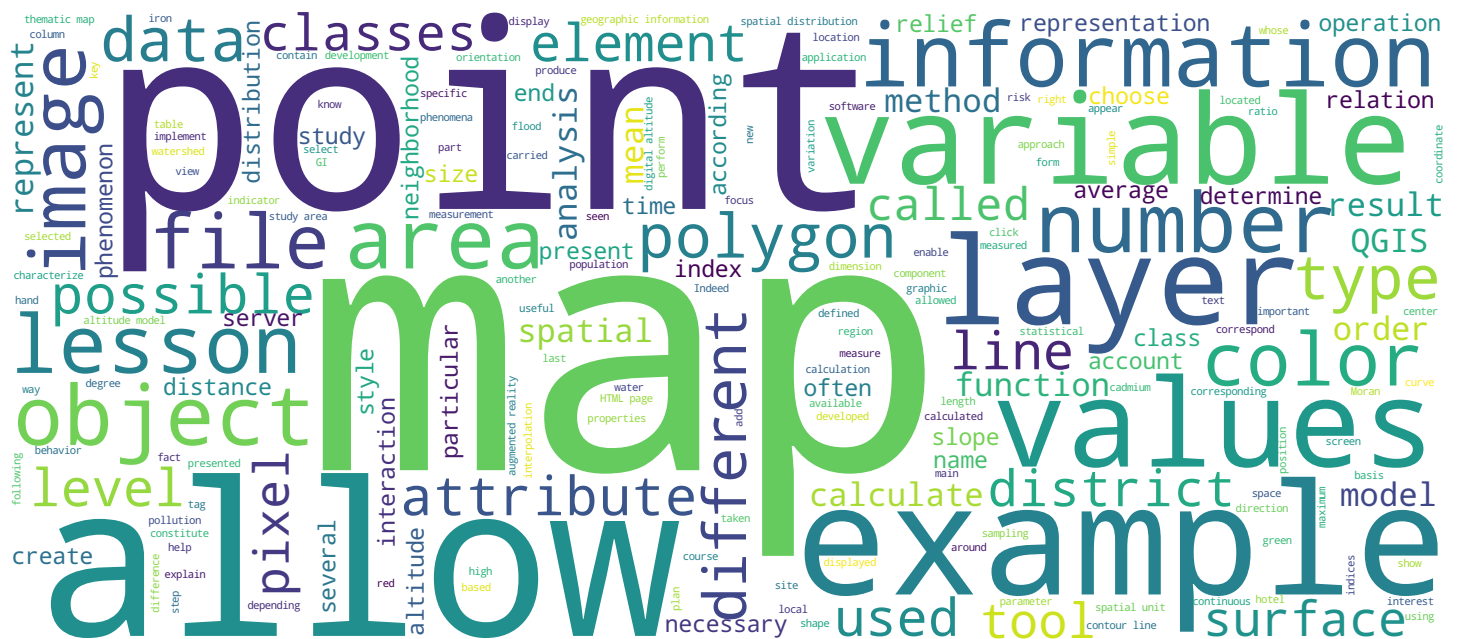


Summary

Data Integration: Vector - Vector

Geographic Information Systems

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Video



Summary

- Vector-vector data can be combined through many different operations, for example:
 - Join point files based on location
 - Count the number of points contained within each polygon
 - Calculate the total length of line segments contained within each polygon
- All of these operations can be implemented in QGIS with tools from the Vector menu
 - Clip
 - Boolean operators



Geographic Information Systems

Here we are at the end of this lesson on the interactions between multiple vectorial files. We have presented the main types of vector-vector interactions and the operations that they allow to implement. You have learned how to join punctual files on the basis of geographic coordinates only, to perform the counting of points located inside polygons and to calculate the length of segments inside polygons. These processings can be performed by means of SQL queries, but most often, for people who do not practice SQL regularly these operations can be carried out more effectively with the help of corresponding functions implemented in QGIS. This lesson has also allowed to address the cutting operations of vectorial objects as well as boolean operations very useful in the case of multi-criteria analysis of aptitude. This concludes this fourth week of course on the interaction between data layers and ends the third module devoted to the analysis of geographic information. From next week, we will focus on the representation of geographic information.

Notes

Summary



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