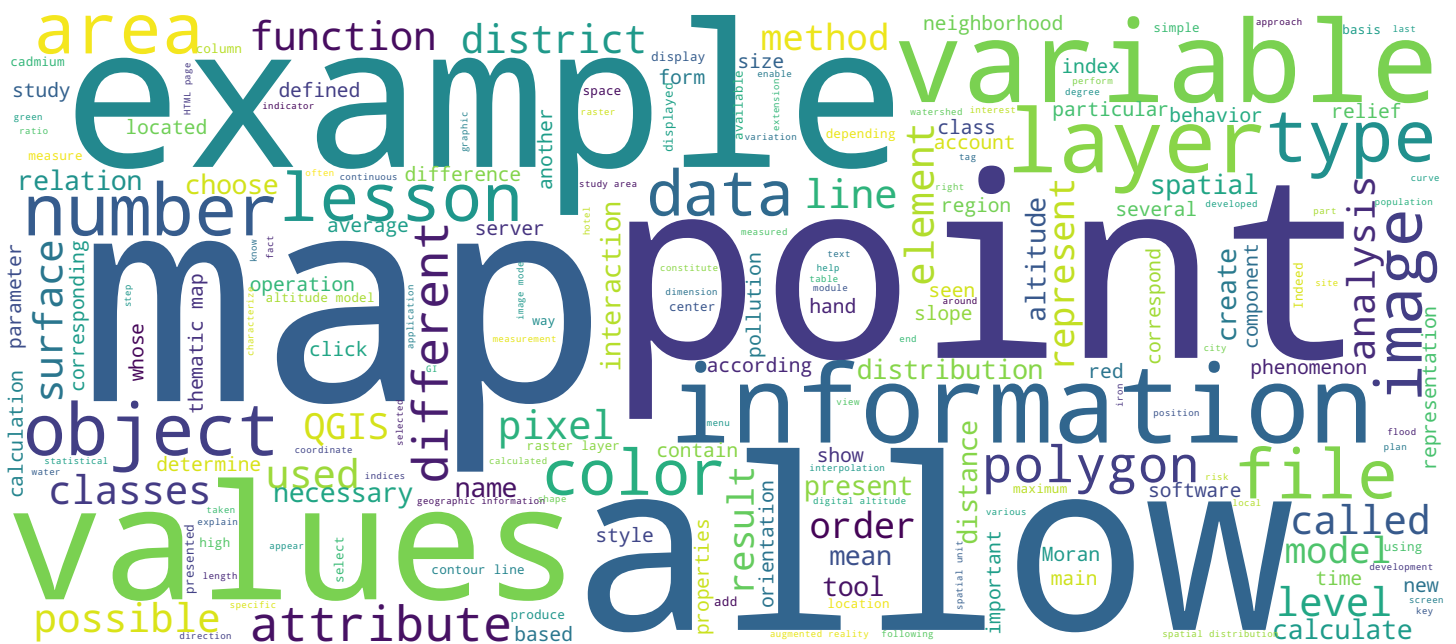


# Summary

## Data Integration: Raster - Vector

## Geographic Information Systems

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## Search MOOC



## Video



# Summary

- We often have to combine multiple data layers
- The possible combinations are: **vector-raster**, raster-raster, vector-vector
- There are two commonly used methods to integrate **vector** and **raster** layers
  - Extract raster information at points designated by a point file (*Point Sampling Tool*)
  - Calculate statistics for areas defined by vector polygons using the raster layer (*Zonal statistics*)



Geographic Information Systems

We have seen in this lesson that the analysis of georeferenced phenomena often requires that we combine informations from distinct layers. Among the types of possible spatial interactions in this first module on the interaction we focused on the interaction between a raster layer and a layer storing vectorial information. We have seen that QGIS allows to perform this type of operation with the "point sampling tool" extension for the data transfer between a layer in image mode and a distribution of superimposed centroids. And this is the "area statistics" extension of QGIS which allows to calculate statistics on the values of a raster layer brought back in areas defined by a file of superimposed polygons.

Notes

Summary



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