Key takeaways from AGILE PhD School 2019

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Abstract

I performed processing in R software using packages: **raster**, **RStoolbox** and **caTools**

1 Visualization

I am still not a fan of using QGIS for producing my maps, but the animations from the time manager are pretty cool!

2 Reproducibility

Sentinel-2 imagery is available for free. You can donload them from ESA SciHub or CREODIAS finder. As a reference data I use freely available Forest Data Bank available here. In this database, there are basic units called *subareas*, and for each subarea, the share of particular species is known.

I performed processing in R software using packages: **raster**, **RStoolbox** and **caTools** The most important functions were:

- `stack()` for reading satellite imagery

- `shapefile()` for reading shp containing reference areas

- `sample.split()` for dividing reference polygons into training and validation data

- `superClass()` for super-vised image classification.

The results of this study were published in Remote Sensing, you can find the article here.

I really need to make a repository with my scripts, because there are too many of them.

3 Science communication

3.1 Key remarks from my study are:

My audience is generally divided into two groups: remote sensing specialists and foresters (forest scientists?). The audience thus determines how I prepare presentations or papers.