Tools for open geospatial science

Make your science stronger by making it transparent and reproducible.

Summer II 2019, GIS 595-601
Special Topics in Geospatial Information Science
Distance Education

The course will:
• focus on open science and reproducibility of geospatial analyses,
• use geospatial open source tools,
• introduce general-purpose and text authoring tools,
• and uncover mysteries of open source.

The students will:
• understand the emerging field of open science,
• gain hands-on experience with variety of open source tools,
• try tools used useful in science and heavily used in industry,
• and see how to use the same approaches in their own research.

Why to take it?
• I want my computations validated by other researchers.
• I want my research to be reused by a wider community.
• I want to learn about science, but also gain knowledge marketable in industry.

Why not to take it?
• I don’t like other people using my research because only I understand it.
• I don’t want people finding mistakes in my calculations.
• I like to send my documents through email with names like joes_corrections_FINAL_3.

Some of the software covered: Jupyter Notebook, QGIS, Markdown, Authorea, Linux, Git, Overleaf, GRASS GIS, GDAL, Leaflet, Docker

Lecture combined with hands-on exercise which overlaps with a short homework
Distance Education – Internet (with help sessions)

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