

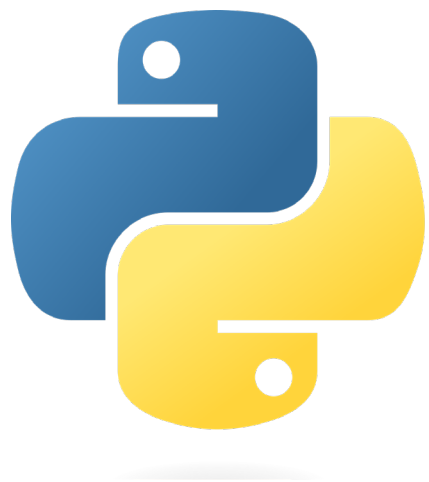
Zehui Yin

Contact

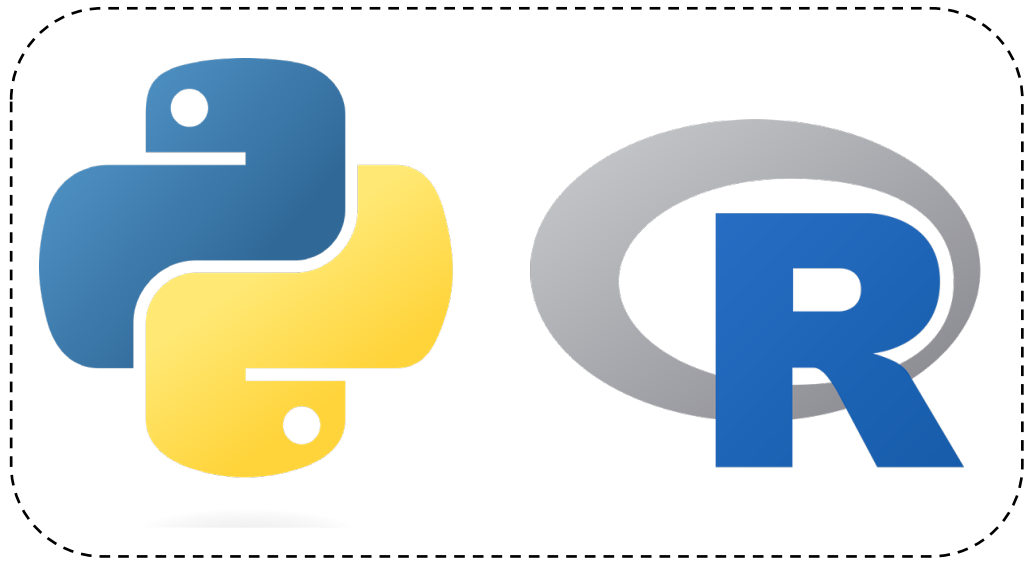
- Email: zehui.yin@mail.utoronto.ca
 - Please use your UofT email address and put GGRA30 in subject line
 - Please include your name and student number in email body
 - I will try to reply within 24 hours (please expect longer delay during weekends)

Office hour

- Tuesday from 11 am to noon
 - Please find zoom link and password on Quercus
 - There will be a waiting room



Mainstream GIS Software



Open source programming languages with packages or libraries can handle spatial objects and conduct GIS analyses.

Python:

GDAL

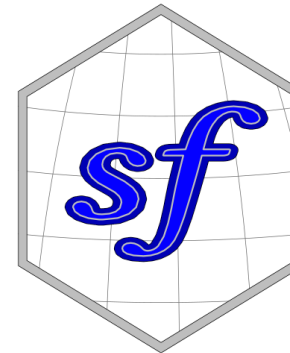


Geopandas



R:

sf



Terra





Specialized GIS Software with graphical interfaces can handle spatial objects and conduct GIS analyses



Esri commercial GIS products:
Utilized in Course:

ArcGIS Pro
GGRB30, GGRC30, GGRC32

ArcMap
GGRB32



QGIS is a free and open-source cross-platform desktop geographic information system (GIS) application that supports viewing, editing, printing, and analysis of geospatial data.

Competing?

Competing?

Not Necessary.

Plenty of ways to bridging programming languages to GIS software

E.g., `arcgisbinding`, `rqgis3`