What is ArcGIS?

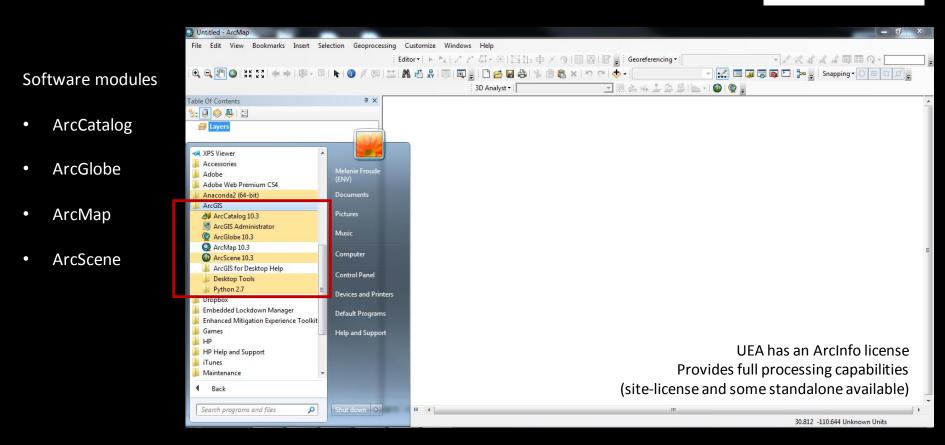
Geographic Information System (GIS)

"lets us visualize, question, analyze, and interpret data to understand relationships, patterns, and trends."

Open source and proprietary GIS options relevant to Python users

- ESRI ArcGIS (proprietary)
- GRASS (open source)



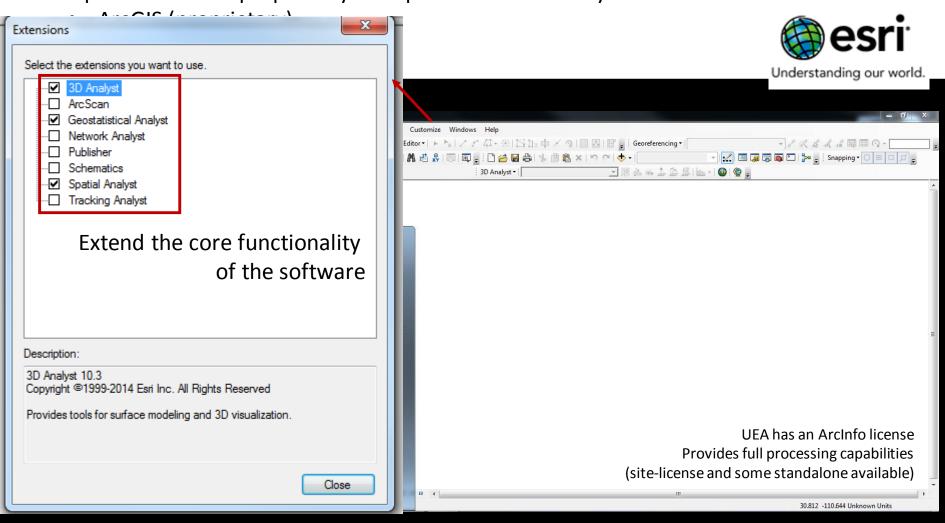


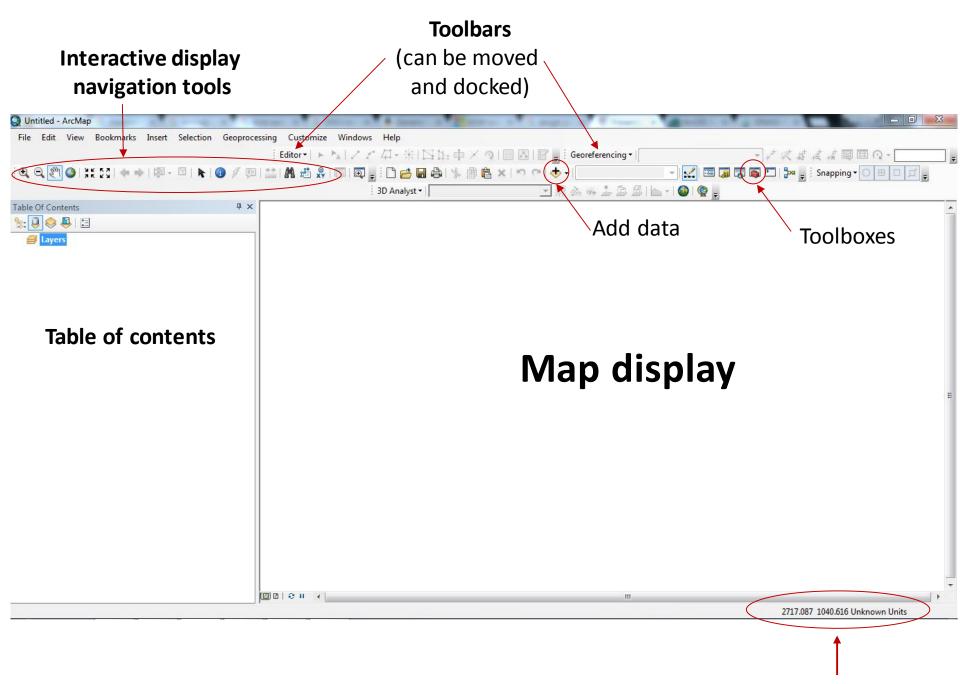
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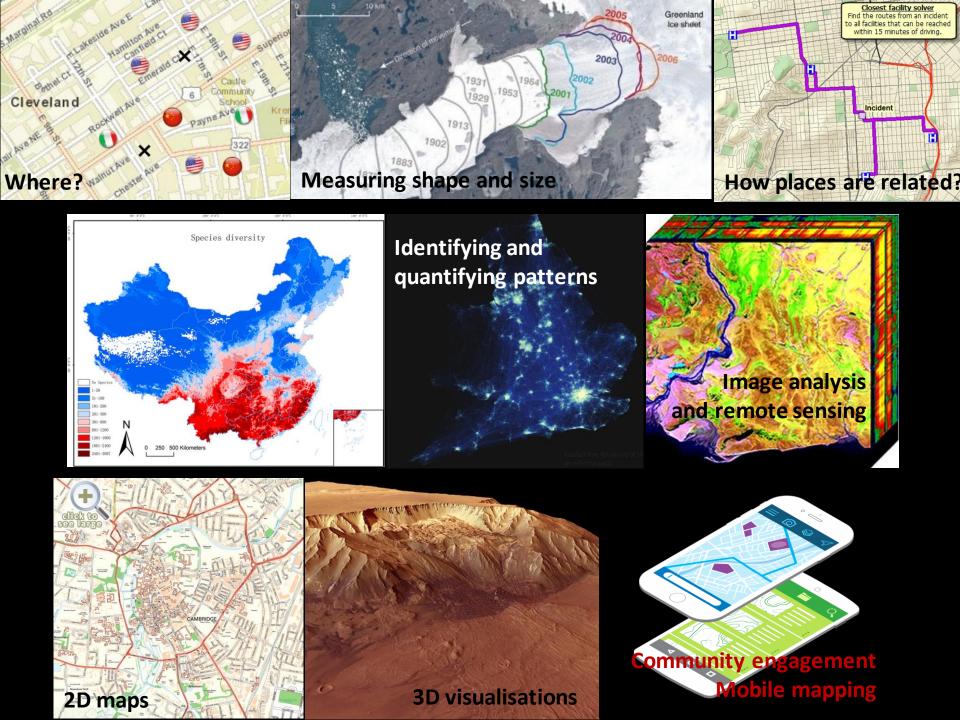
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Open source and proprietary GIS options relevant to Python users



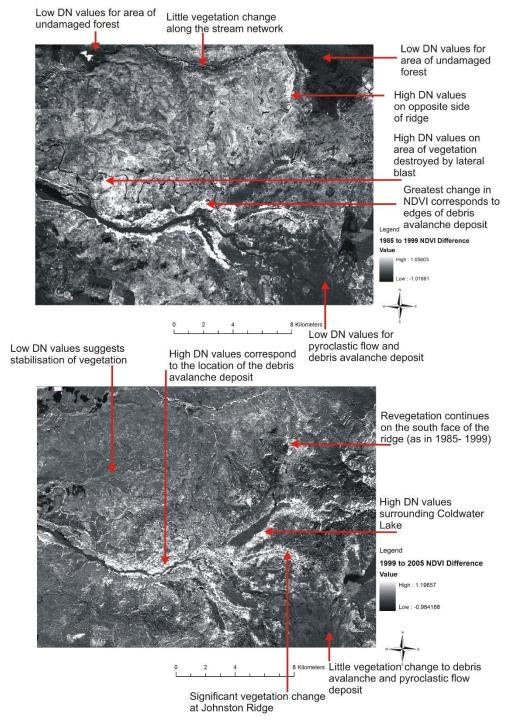


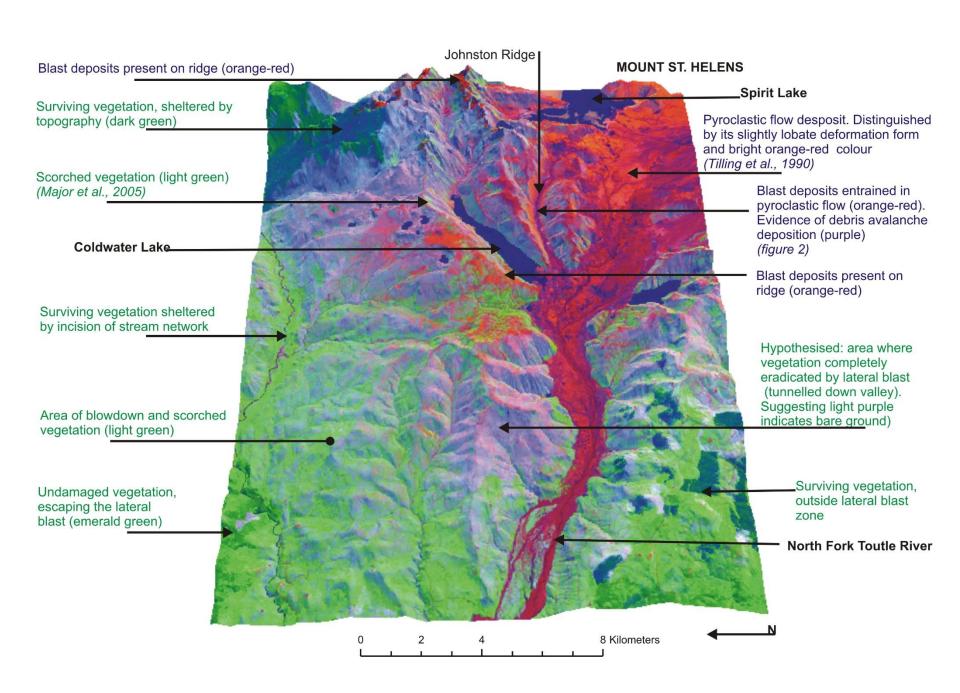
Status bar: coordinates and units



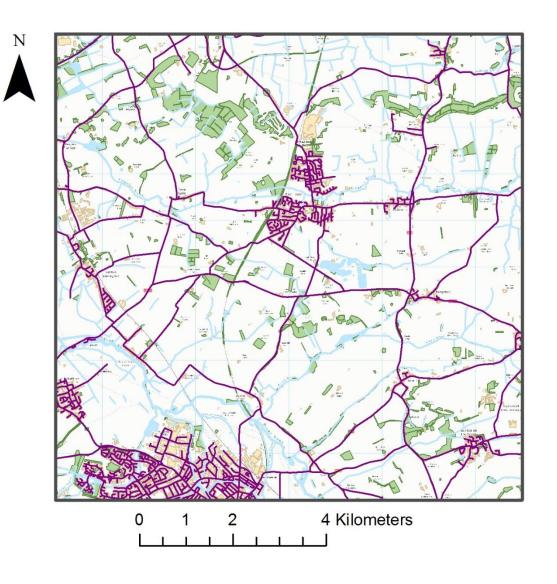
DEMO 1: Analysis of vegetation regrowth after a volcanic eruption : Mount St Helens

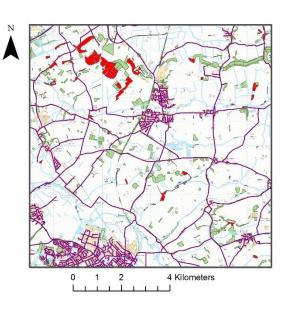
Normalised Difference Vegetation Index NDVI = (NIR- R)/(NIR + R)





DEMO 2: Possibilities for protected woodland habitats





DEMO 3: ArcScene: 3D terrain

