# What is ArcGIS?

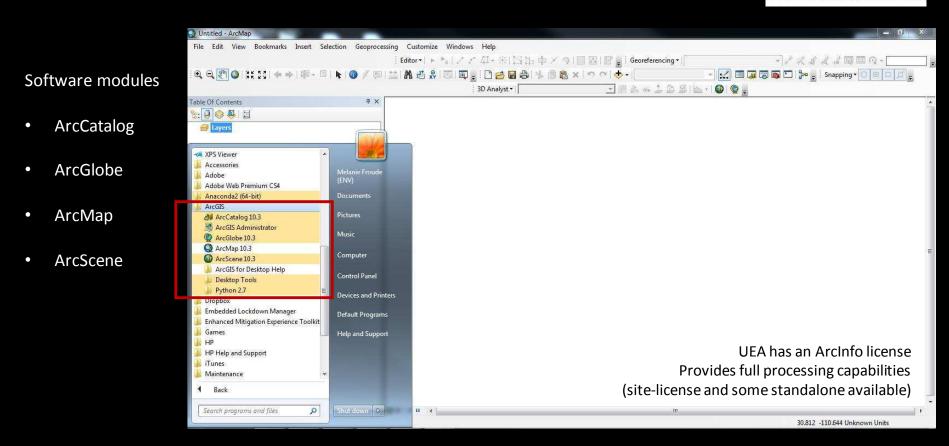
#### Geographic Information System (GIS)

"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)



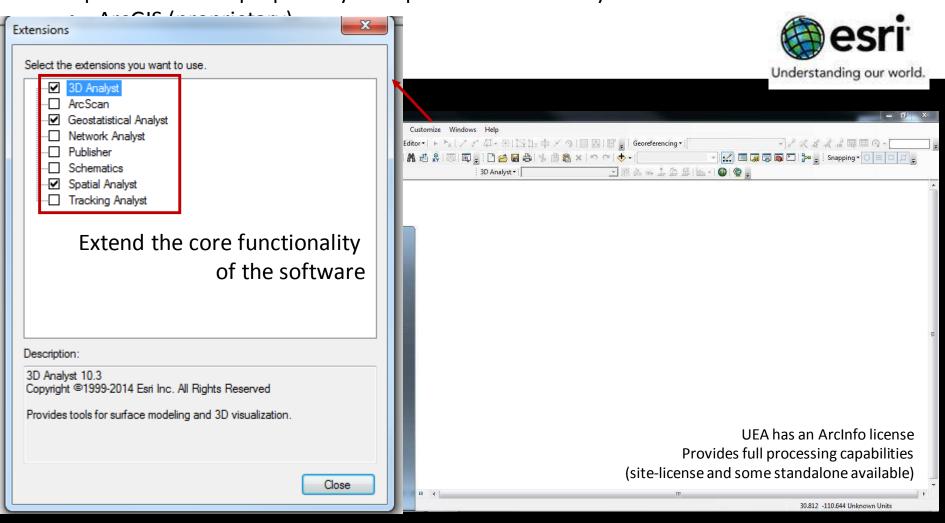


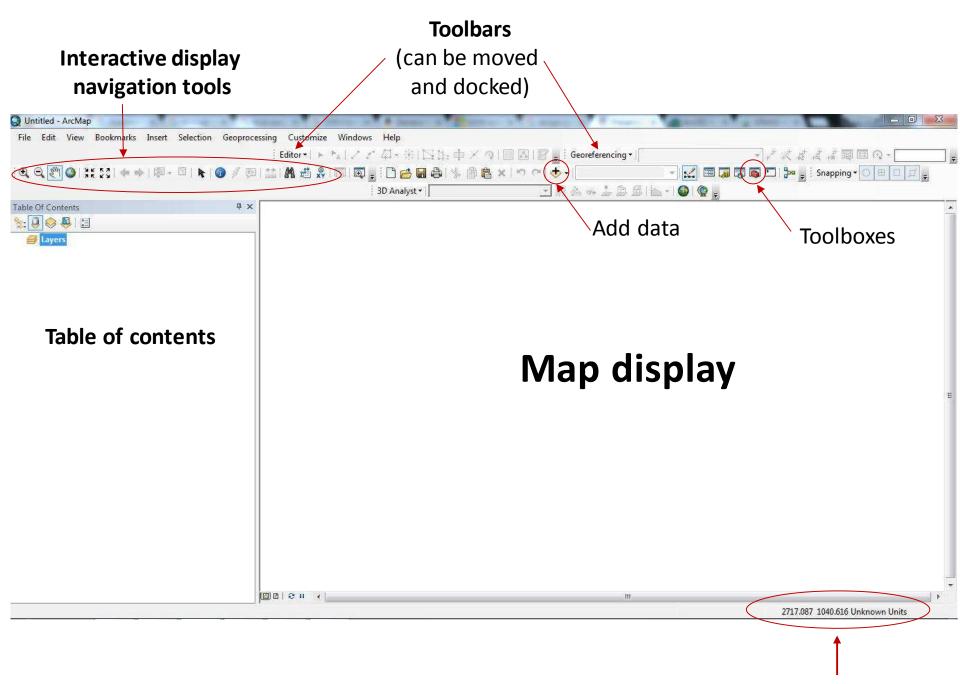
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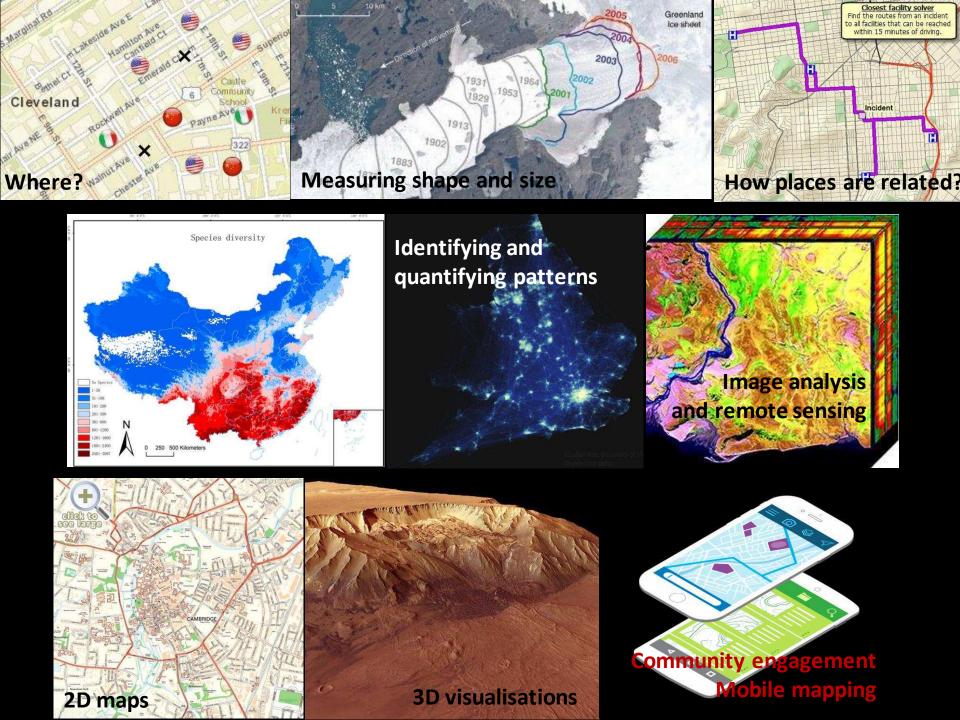
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Open source and proprietary GIS options relevant to Python users



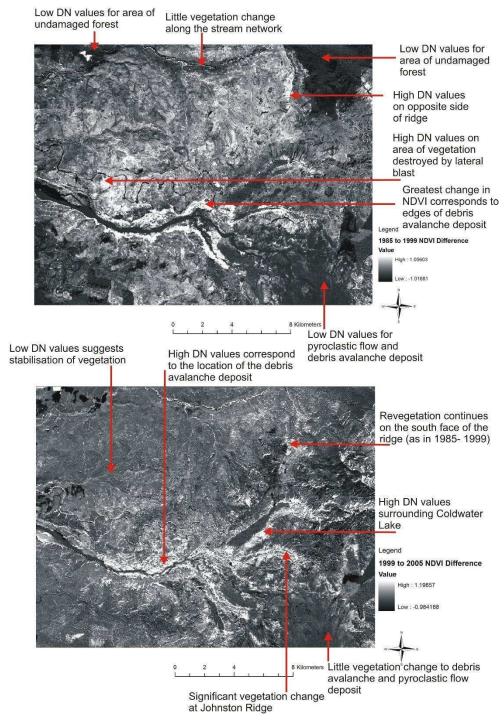


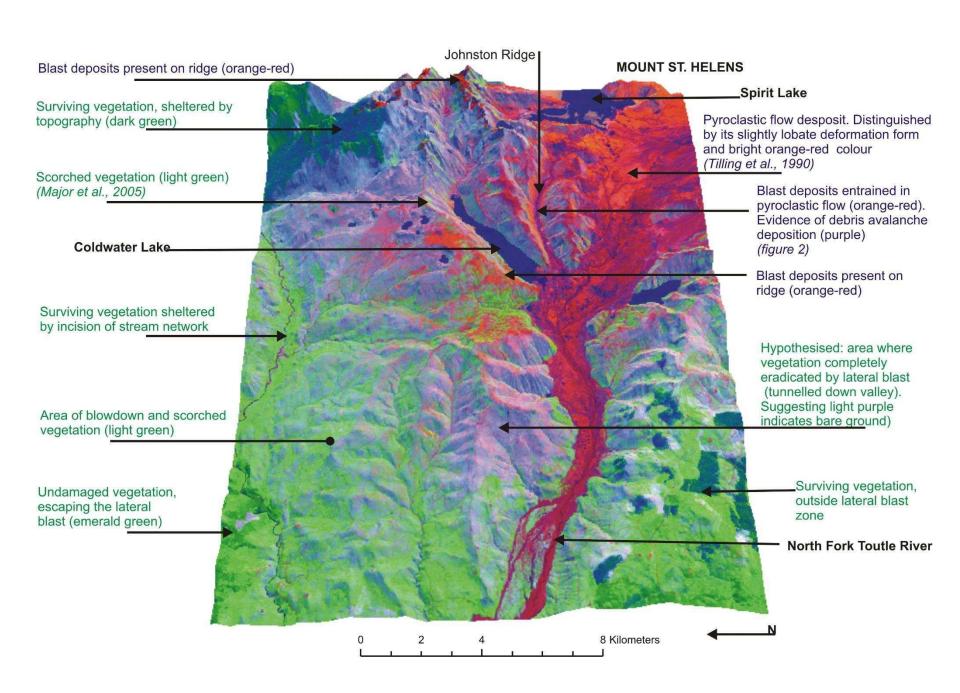
Status bar: coordinates and units



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

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





## **DEMO 3:** ArcScene: 3D terrain

