

Remote Sensing & Google Earth Engine - Student Assessment Quiz

18 responses

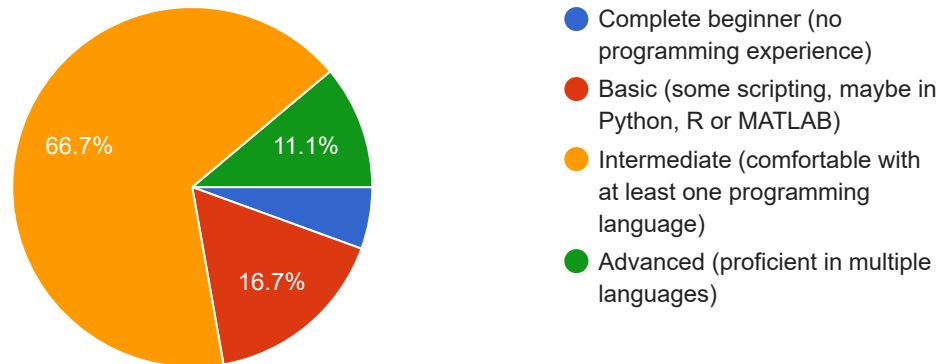
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Programming Experience

What is your overall programming experience level?

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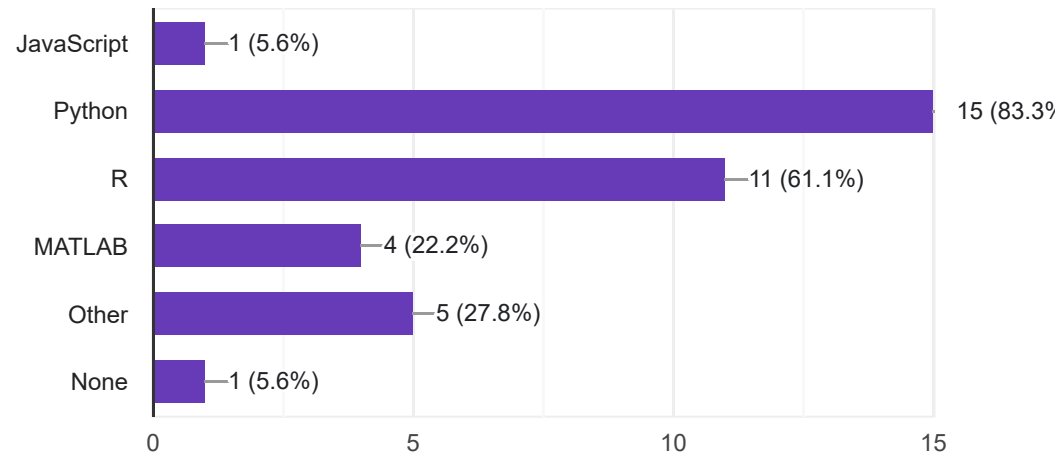
18 responses



Which programming languages have you used? (Check all that apply)

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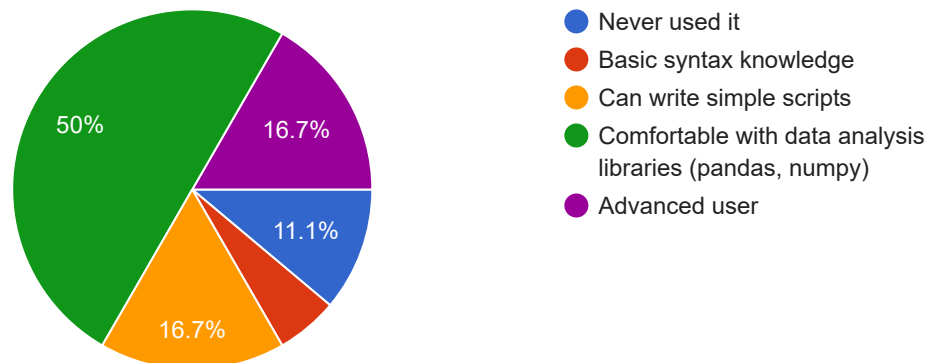
18 responses



How comfortable are you with Python?

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18 responses

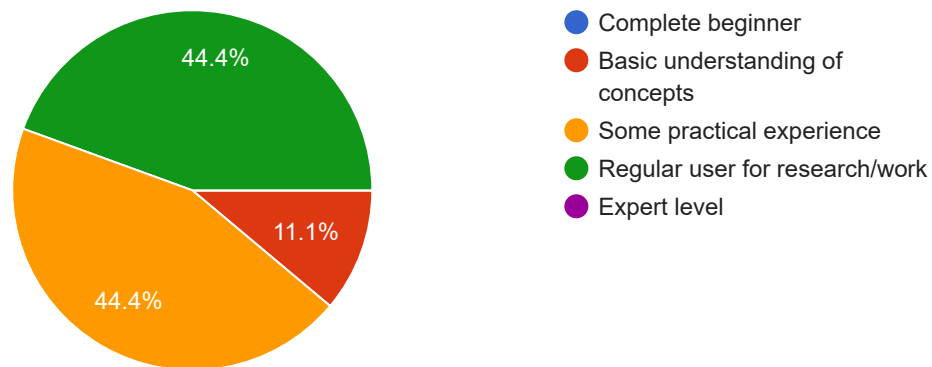


Remote Sensing & Data Experience

What is your experience with remote sensing?

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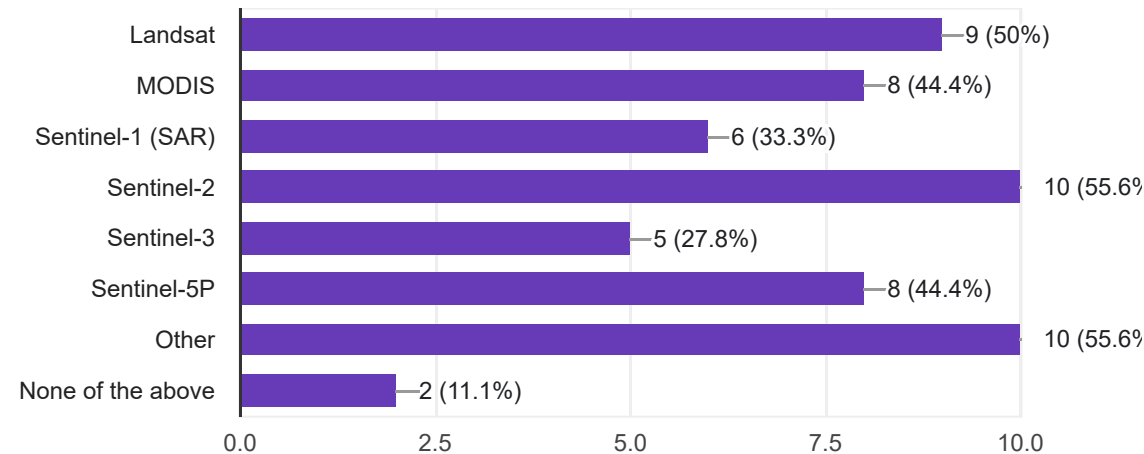
18 responses



Which satellite platforms are you familiar with? (Check all that apply)



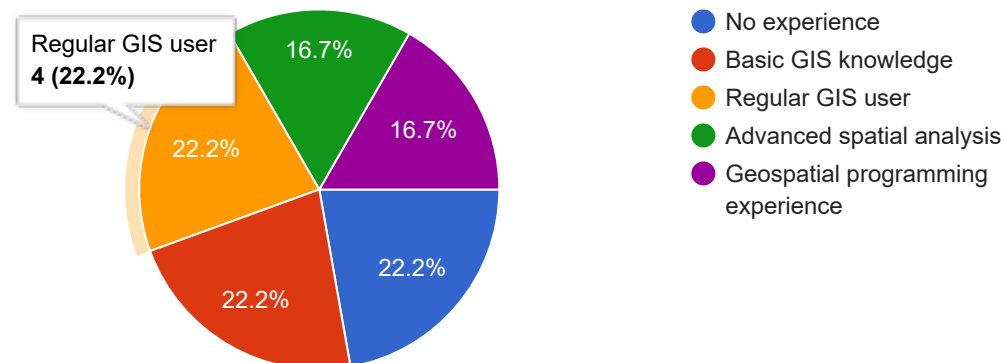
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What is your experience with geospatial data analysis?



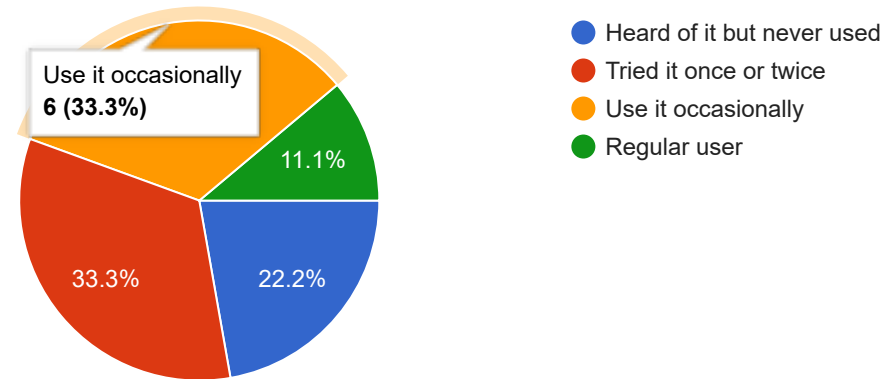
18 responses



Have you used Google Earth Engine before?

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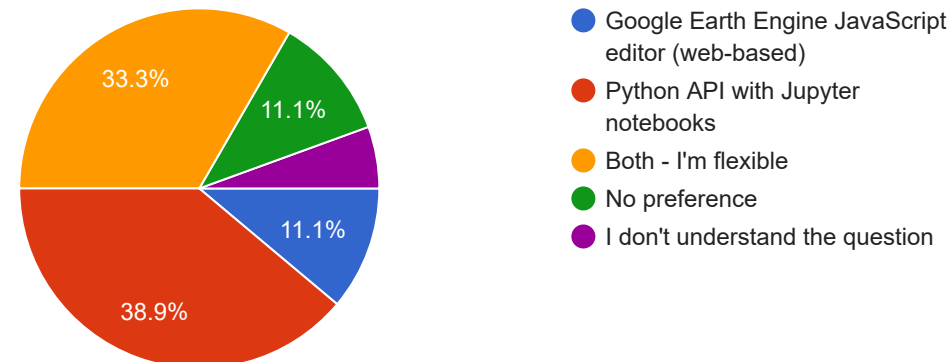
18 responses



Which environment would you prefer for the practical exercises?

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18 responses



Open Questions



What specific challenges in accessing or processing satellite data do you hope to address?

10 responses

Understanding image preprocessing to extract information

Column-to-flux conversion (CTM), resolution mismatch with ground data, cloud filtering, and temporal averaging.

Learn more

Atmospheric composition

Good way to combine satellite raster data with geospatial data, combining satellite data of different layers (heights)

temporal profiles, top down bottom up comparison for national inventories.

step-by-step guidance in accessing and processing data, basically negligible experience

proper corrections for the products, variables/products selection for retrieval schemes, the physical/mathematical background of the different processes and how it can be linked to optical or different signals received by satellite sensors.

long-range transboundary air pollution of NH₃



I would like to know how to access quickly and efficiently the dataset using API in python



Do you have any specific datasets or study regions you'd like to work with?

12 responses

Yes. In Portugal's exclusive economic zone.

Ocean datasets

IASI and TROPOMI over the Great Barrier Reef catchment.

no

Iberian Peninsula

Maybe the some of the new sentinel 4p data, otherwise anything that directly helps to track down emissions from different sources (agriculture, landfills, aquatic systems....)

IASI and CrIS NH3 datasets

mainly the UK and NH3

Mediterranean/Iberian Peninsula

The Veluwe, Netherlands

Norther-France



IASI, CHIMERE - Europe

Any additional comments or special requirements?

2 responses

Interested in applying data assimilation and bias correction methods for NH₃ deposition mapping.

no

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