# Pixel Selection, Pixel Visualization and top-k Pixel Recommender System

by

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#### Outline

- Key advances in the latest version
- Pixel selection method
- Pixel visualization method
- Top-K Pixel Recommender System

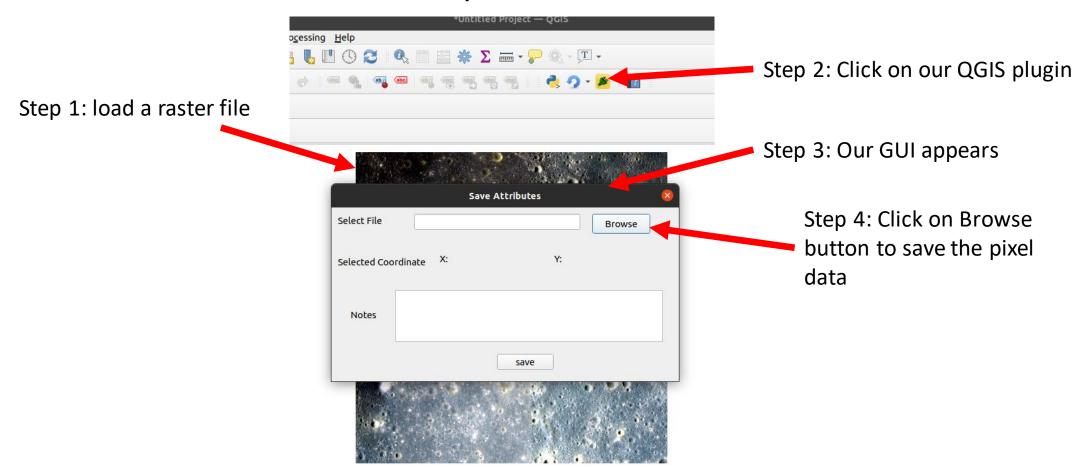
### Key advances in the latest version

- Complete overhaul of the GUI
  - Prime focus was given for simplicity and ease of use
  - Functionalities were group and generalized
  - Visualization component was added for fine tuning the teaching data

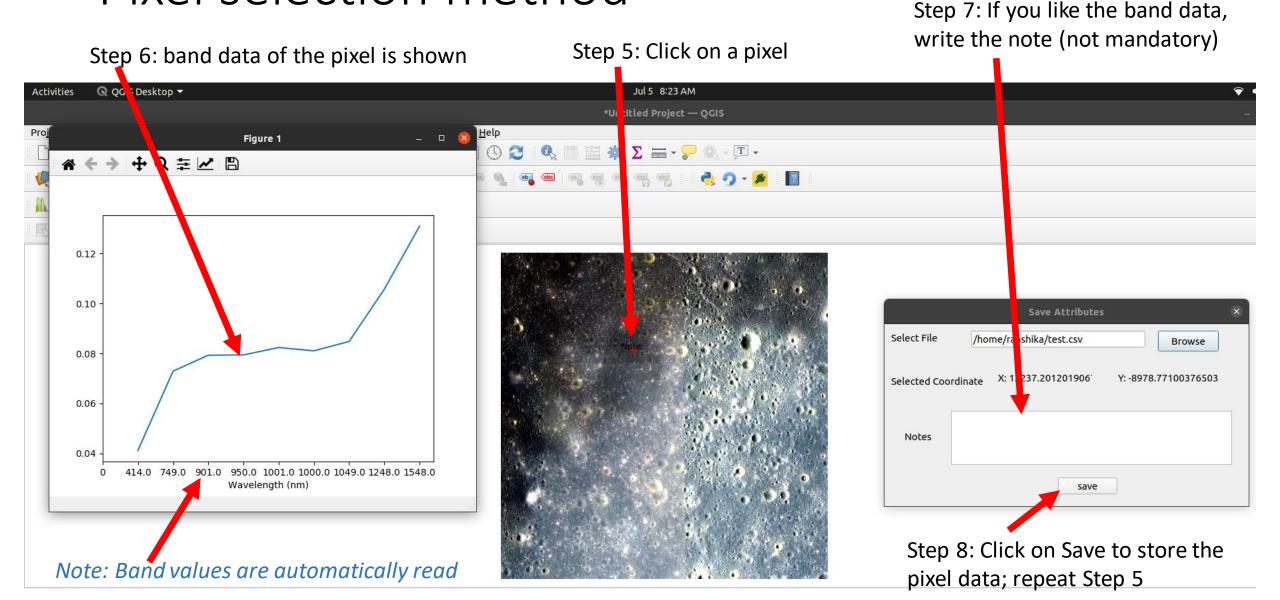
- Addressed a major challenge
  - Coded a key QGIS library to read the band labels directly from the raster images
  - Our library can read band labels of any raster file format

#### Pixel selection method

• This method is used to select pixels that are of interest to the user



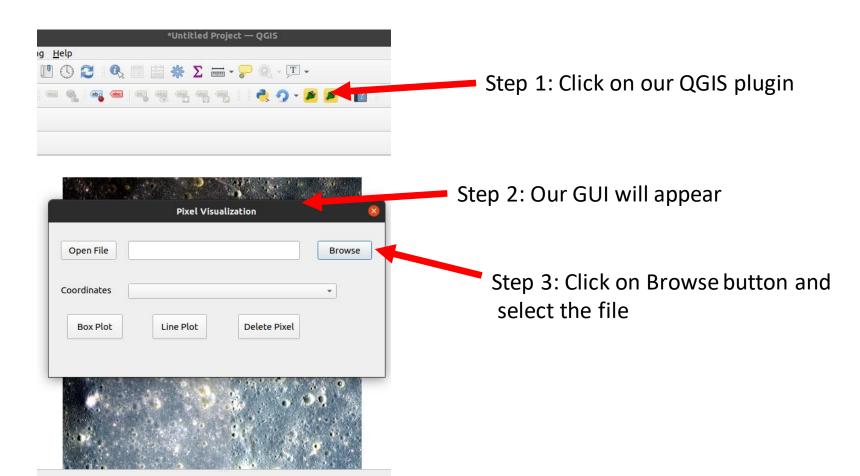
#### Pixel selection method



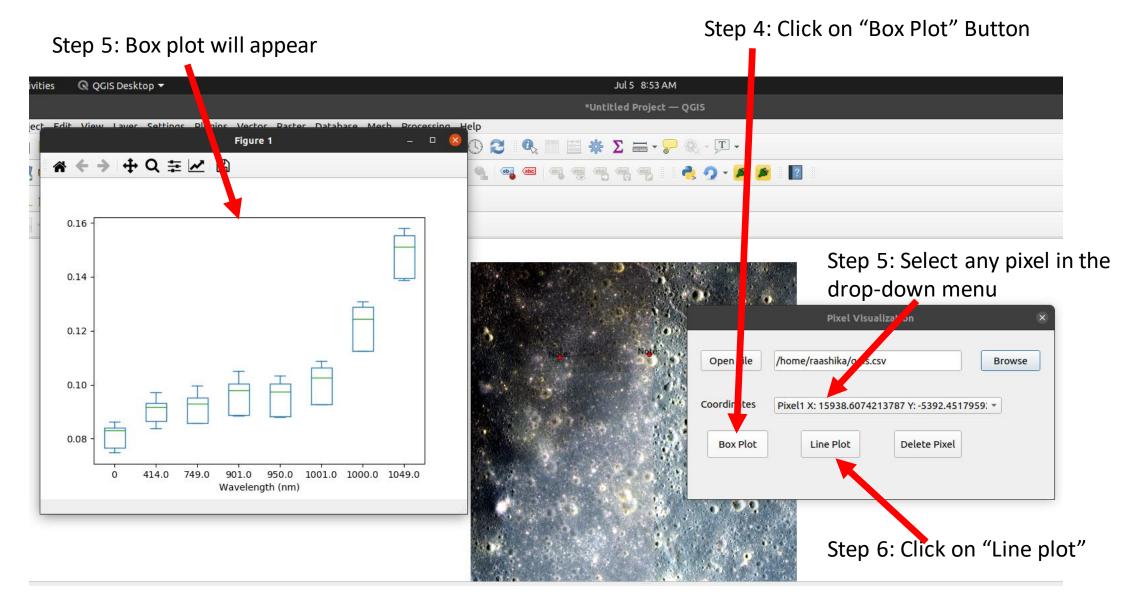
# Demo

#### Pixel visualization method

Objective: To refine the selected training data by removing the outliers

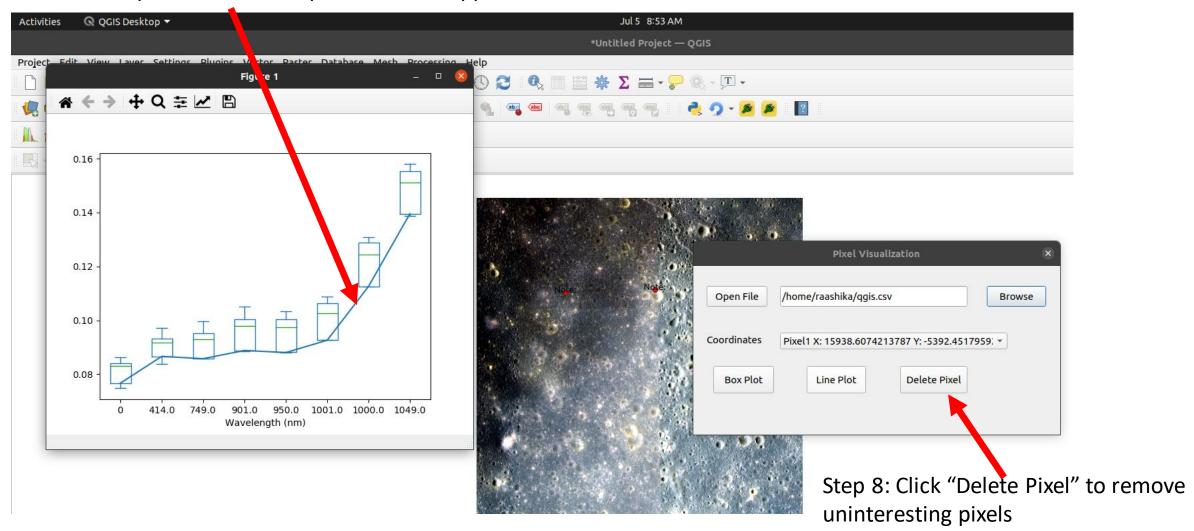


#### Pixel visualization method



#### Pixel visualization method

Step 7: The selected pixel data will appear



# Demo

## Top-K Pixel Recommender System

DEMO