

Afternoon Session:

Date: / /

Date: 22nd May.

Course: python

Topic: Day 5 (Create webmaps).

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Sem & Section: IV Sem & A' Sem

Report :-

Create webmaps with python & Folium.

Installing open CV.

1. open the Command line & type:

`pip install opencv-python`

2. open a python session and try:

`import cv2`

3. If you get no errors, you installed opencv successfully. If you get an error, see the FAQs.

Indexing, slicing, and Iterating Numpy Arrays:

The Base Map:-

In the lecture I use this in the code:

`tiles = "Mapbox Bright"`

please use this instead:

`tiles = "stamen Terrain"`

Mapbox Bright & stamen Terrain are both types of basemaps, but Mapbox Bright doesn't work anymore. Stamen Terrain works great and you will see it creates a beautiful relief map.

Adding points:

Adding Multiple points:

popup windows on Map.

```

import folium
import pandas
data = pandas.read_csv("volcanoes.txt")
lat = list(data("LAT"))
lon = list(data("LON"))
elev = list(data("ELEV"))
map = folium.Map(location = (38, 58, -99, 09), zoom_start = 5,
                  tiles = "Mapbox Bright"))
fg = folium.FeatureGroup(name = "My Map")
for lt, lu, el in zip(lat, lon, elev):
    print(type(lt))
    fg.add_child(folium.Marker(location=(lt, lu), popup = str(el) as a
                              Marker"))
map.add_child(fg)
map.save("Map1.html").

```

HTML on Popups:

Add and Style points:

you can use `dir(folium)` to look for possible methods of Creating circle markers. Among the methods you will see `marker`, which we previously used.

Once you locate the method Consider using the `help` function to look for possible arguments you can pass to the method for Styling the circle markers.

Geo JSON data:

Adding a GeoJSON polygon layer:-

Layer control panel:-