import folium

map=folium.Map(location=[45.372,-121.697],zoom\_start=12,tiles='Stamen Terrain')

tooltip = 'Click me!'

folium.Marker(location=[45.3288, -121.6625],popup='Mt. Hood Meadows',icon=folium.Icon(color='red')).add\_to(map)

folium.Marker(location=[45.3311, - 121.7113], popup='Timberline Lodge',icon=folium.Icon(color='green')).add\_to(map)

map.save('mthood.html')

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[45.372,-121.697],zoom\_start=12,tiles='Stamen Terrain')

tooltip = 'Click me!'

for lat,lon,name in zip(df['LAT'],df['LON'],df['NAME']):

folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color='red')).add\_to(map)

map.save('mthood.html')

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[45.372,-121.697],zoom\_start=12,tiles='Stamen Terrain')

tooltip = 'Click me!'

for lat,lon,name,elev in zip(df['LAT'],df['LON'],df['NAME'],df['ELEV']):

folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color='green' if elev in range(0,1000) else 'orange' if elev in range(1000,3000) else 'red')).add\_to(map)

map.save('mthood.html')

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[45.372,-121.697],zoom\_start=12,tiles='Stamen Terrain')

def color(elev):

if elev in range(0,1000):

col='green'

elif elev in range(1000,3000):

col='orange'

else:

col='red'

return col

tooltip = 'Click me!'

for lat,lon,name,elev in zip(df['LAT'],df['LON'],df['NAME'],df['ELEV']):

folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color(elev))).add\_to(map)

map.save('mthood.html')

Python 3.8.2 (tags/v3.8.2:7b3ab59, Feb 25 2020, 23:03:10) [MSC v.1916 64 bit (AMD64)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>> import pandas

>>> df=pandas.read\_csv("Volcanoes-USA.txt")

>>> df['ELEV'].mean()

2212.3225806451615

>>> df['LAT'].mean()

41.31256779838711

>>> min(df['ELEV']

... )

288.0

>>> max(df['ELEV'])-min(df['ELEV'])

4104.0

>>> (max(df['ELEV'])-min(df['ELEV']))/3

1368.0

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[df['LAT'].mean(),df['LON'].mean()],zoom\_start=6,tiles='Stamen Terrain')

def color(elev):

minimum=int(min(df['ELEV']))

step=int((max(df['ELEV'])-min(df['ELEV']))/3)

if elev in range(minimum,minimum+step):

col='green'

elif elev in range(minimum+step,minimum+step\*2):

col='orange'

else:

col='red'

return col

tooltip = 'Click me!'

for lat,lon,name,elev in zip(df['LAT'],df['LON'],df['NAME'],df['ELEV']):

folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color(elev))).add\_to(map)

map.save('mthood.html')

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[df['LAT'].mean(),df['LON'].mean()],zoom\_start=6,tiles='Stamen Terrain')

def color(elev):

minimum=int(min(df['ELEV']))

step=int((max(df['ELEV'])-min(df['ELEV']))/3)

if elev in range(minimum,minimum+step):

col='green'

elif elev in range(minimum+step,minimum+step\*2):

col='orange'

else:

col='red'

return col

tooltip = 'Click me!'

for lat,lon,name,elev in zip(df['LAT'],df['LON'],df['NAME'],df['ELEV']):

folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color(elev),icon\_color='green')).add\_to(map)

map.save('mthood.html')

import json

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[df['LAT'].mean(),df['LON'].mean()],zoom\_start=6,tiles='Stamen Terrain')

def color(elev):

minimum=int(min(df['ELEV']))

step=int((max(df['ELEV'])-min(df['ELEV']))/3)

if elev in range(minimum,minimum+step):

col='green'

elif elev in range(minimum+step,minimum+step\*2):

col='orange'

else:

col='red'

return col

tooltip = 'Click me!'

for lat,lon,name,elev in zip(df['LAT'],df['LON'],df['NAME'],df['ELEV']):

folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color(elev),icon\_color='green')).add\_to(map)

map.add\_child(folium.GeoJson(data=open('World\_Population.json', 'r', encoding='utf-8-sig').read(), style\_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000 else 'orange' if 10000000 <= x['properties']['POP2005'] < 20000000 else 'red'}))

map.save(outfile='mthood.html')

import json

import folium

import pandas

df=pandas.read\_csv("Volcanoes-USA.txt")

map=folium.Map(location=[df['LAT'].mean(),df['LON'].mean()],zoom\_start=6,tiles='Stamen Terrain')

def color(elev):

minimum=int(min(df['ELEV']))

step=int((max(df['ELEV'])-min(df['ELEV']))/3)

if elev in range(minimum,minimum+step):

col='green'

elif elev in range(minimum+step,minimum+step\*2):

col='orange'

else:

col='red'

return col

tooltip = 'Click me!'

fg=folium.FeatureGroup(name="Volcano Locations")

for lat,lon,name,elev in zip(df['LAT'],df['LON'],df['NAME'],df['ELEV']):

fg.add\_child(folium.Marker(location=[lat,lon],popup=name,icon=folium.Icon(color(elev),icon\_color='green'))).add\_to(map)

map.add\_child(fg)

map.add\_child(folium.GeoJson(data=open('World\_Population.json', 'r', encoding='utf-8-sig').read(), style\_function=lambda x: {'fillColor':'green' if x['properties']['POP2005'] < 10000000 else 'orange' if 10000000 <= x['properties']['POP2005'] < 20000000 else 'red'}))

map.add\_child(folium.LayerControl())

map.save(outfile='mthood.html')