# APIExample2-Weather

October 7, 2024

## 1 End to End Example

Real Time temperature across the globe in Python !

```python
[1]: from IPython.display import display
     from ipywidgets import interact_manual
     import requests

     apikey = 'ea044c96950db6cc0fab7ae1'

     def geocode(location, apikey):
         querystring = {"location": location}
         url = "https://cent.ischool-iot.net/api/google/geocode"
         headers = {'X-API-KEY': apikey}
         response = requests.get(url, params=querystring, headers=headers)
         response.raise_for_status()
         data = response.json()
         latlon = data['results'][0]['geometry']['location']
         return latlon

     def temperature(latlon, apikey, units="imperial"):
         querystring = {
             'units': 'imperial',
             'lat': latlon['lat'],
             'lon': latlon['lng']
         }
         headers = {'X-API-KEY': apikey}
         url = "https://cent.ischool-iot.net/api/weather/current"
         response = requests.get(url, params=querystring, headers=headers)
         response.raise_for_status()
         weather = response.json()
         temp = weather['current']['apparent_temperature']
         return temp

     @interact_manual(location="")
     def onclick(location):
         latlon = geocode(location, apikey)
         temp = temperature(latlon, apikey)
```

```python
    print(f"The current temperature in {location} is {temp} degrees F")
```

interactive(children=(Text(value='', continuous_update=False,␣
 ↪description='location'), Button(description='Run…

[ ]: