## L09-18-11-7-P3-querying-map-image

## November 12, 2018

```
In [2]: import xarray as xr
In [3]: ds = xr.tutorial.load_dataset('air_temperature')
Out[3]: <xarray.Dataset>
       Dimensions:
                     (lat: 25, lon: 53, time: 2920)
        Coordinates:
          * lat
                     (lat) float32 75.0 72.5 70.0 67.5 65.0 ... 25.0 22.5 20.0 17.5 15.0
          * lon
                     (lon) float32 200.0 202.5 205.0 207.5 ... 322.5 325.0 327.5 330.0
                     (time) datetime64[ns] 2013-01-01 ... 2014-12-31T18:00:00
          * time
       Data variables:
            air
                     (time, lat, lon) float32 241.2 242.5 243.5 ... 296.49 296.19 295.69
        Attributes:
            Conventions: COARDS
            title:
                          4x daily NMC reanalysis (1948)
            description: Data is from NMC initialized reanalysis\n(4x/day). These a...
           platform:
                          Model
                          http://www.esrl.noaa.gov/psd/data/gridded/data.ncep.reanaly...
            references:
In [19]: nyc = ds.sel(lat=40.712, lon = 74.0060, method='nearest')
         la = ds.sel(lat = 34.0522, lon =118.2437, method='nearest' )
In [20]: import matplotlib.pyplot as plt
         %matplotlib inline
         _ = nyc['air'].plot(label='nyc')
         _ = la['air'].plot(label='la')
         _ = plt.legend()
```





