Lab 01

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Your method 1/2 or 3/4

The goal is to:

1. download two datasets from the NRC Geospatial commons
2. make a map that uses in the same CRS and ID
3. make a map that uses two layers
4. analyzed the resulting data as a geodatabase

PART 1

downloading data from NRWQC

In [1]:
```
# Setup Jupyter Notebook
%matplotlib inline
import geopandas
import matplotlib
import matplotlib.pyplot
import numpy
import os
import pandas
```

Setting up a request. Dishearing directions from cab rides

In [2]:
```
dataroot = "/home/jovyan/work/data/01-Lab01-Intro-Geospatial_Data/"
dataset = "Nutrient-Calculations-MA-and-NH/Intermediate_Data/"
dataset = "Nutrient-Calculations-MA-and-NH/Final_Data/"
```

In [3]:
```
# Reading the data into a dataframe and printing the first 5 rows
df = pandas.read_csv(dataroot+dataset+"Nutrient-Calculations-MA-and-NH-Complete.csv", sep=",", encoding="latin1")
df.sample(5, random_state=1, axis=0, ignore_index=False, weights=None)
```

Out[3]:

	Year	Watershed	Site	Station	Lat	Long	Nitrogen	Phosphorus	Chloride	Chlorophyll	Secchi	Flow	Flow_Cat
1	2000	Merrimack	Merrimack River at Lowell, MA	3-MER000.7	42.6333	-71.3333	0.7	0.05	43.0	NaN	1.0	5.0	Medium
2	2000	Merrimack	Merrimack River at Lowell, MA	3-MER000.7	42.6333	-71.3333	0.7	0.05	43.0	NaN	1.0	5.0	Medium
3	2000	Merrimack	Merrimack River at Lowell, MA	3-MER000.7	42.6333	-71.3333	0.7	0.05	43.0	NaN	1.0	5.0	Medium
4	2000	Merrimack	Merrimack River at Lowell, MA	3-MER000.7	42.6333	-71.3333	0.7	0.05	43.0	NaN	1.0	5.0	Medium
5	2000	Merrimack	Merrimack River at Lowell, MA	3-MER000.7	42.6333	-71.3333	0.7	0.05	43.0	NaN	1.0	5.0	Medium

In [4]:
```
# Reading the data into a dataframe and printing the first 5 rows
df = pandas.read_csv(dataroot+dataset+"Nutrient-Calculations-MA-and-NH-Complete.csv", sep=",", encoding="latin1")
df.sample(5, random_state=1, axis=0, ignore_index=False, weights=None)
```

In [5]:
```
# Checking the numerical data accumulated during the load
df.sample(5, random_state=1, axis=0, ignore_index=False, weights=None)
df.describe(include=[numpy.int64, numpy.float64])
```

Out[5]:

	Year	Lat	Long	Nitrogen	Phosphorus	Chloride	Chlorophyll	Secchi	Flow
count	1.0000e+03	1.000000e+03	1.000000e+03	1.000000e+03	1.000000e+03	1.000000e+03	0.000000e+00	1.000000e+03	1.000000e+03
mean	2.000000e+03	4.250000e+01	-7.100000e+01	1.000000e+00	1.000000e+00	1.000000e+00	NaN	1.000000e+00	1.000000e+00
std	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	NaN	0.000000e+00	0.000000e+00
min	2.000000e+03	4.250000e+01	-7.100000e+01	1.000000e+00	1.000000e+00	1.000000e+00	NaN	1.000000e+00	1.000000e+00
25%	2.000000e+03	4.250000e+01	-7.100000e+01	1.000000e+00	1.000000e+00	1.000000e+00	NaN	1.000000e+00	1.000000e+00
50%	2.000000e+03	4.250000e+01	-7.100000e+01	1.000000e+00	1.000000e+00	1.000000e+00	NaN	1.000000e+00	1.000000e+00
75%	2.000000e+03	4.250000e+01	-7.100000e+01	1.000000e+00	1.000000e+00	1.000000e+00	NaN	1.000000e+00	1.000000e+00
max	2.000000e+03	4.250000e+01	-7.100000e+01	1.000000e+00	1.000000e+00	1.000000e+00	NaN	1.000000e+00	1.000000e+00

```
{"data":{"Tokens":[[0,0,0,
```

Tuberculosis
Tuberculosis, unspecified
Tularemia
Tularemia meningitis
Tularemia pneumonia
Tularemia with other complications
Tularemia, unspecified
Typhoid fever
Typhoid meningitis
Typhoid pneumonia
Typhoid with other complications
Typhoid with renal tubulo-interstitial nephritis
Typhoid with renal tubulo-interstitial nephritis and renal failure
Typhoid with renal failure
Typhoid with renal failure and renal tubulo-interstitial nephritis
Typhoid with renal failure and renal tubulo-interstitial nephritis and renal failure
Typhoid with renal failure and renal tubulo-interstitial nephritis and renal failure and renal tubular acidosis
Typhoid with renal failure and renal tubulo-interstitial nephritis and renal failure and renal tubular acidosis and renal tubular acidosis with renal failure
Typhoid with renal failure and renal tubular acidosis
Typhoid with renal failure and renal tubular acidosis and renal tubular acidosis with renal failure
Typhoid with renal tubular acidosis
Typhoid with renal tubular acidosis and renal tubular acidosis with renal failure
Typhoid with renal tubular acidosis with renal failure
Typhoid with renal tubulo-interstitial nephritis
Typhoid with renal tubulo-interstitial nephritis and renal failure
Typhoid with renal tubulo-interstitial nephritis and renal failure and renal tubular acidosis
Typhoid with renal tubulo-interstitial nephritis and renal failure and renal tubular acidosis with renal failure
Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis
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Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure
Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure and renal tubular acidosis
Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure
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Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure
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Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis
Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure and renal tubular acidosis with renal failure
Typhoid with renal tubulo-interstitial nephritis and renal tubular acidosis with renal failure

```
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```
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