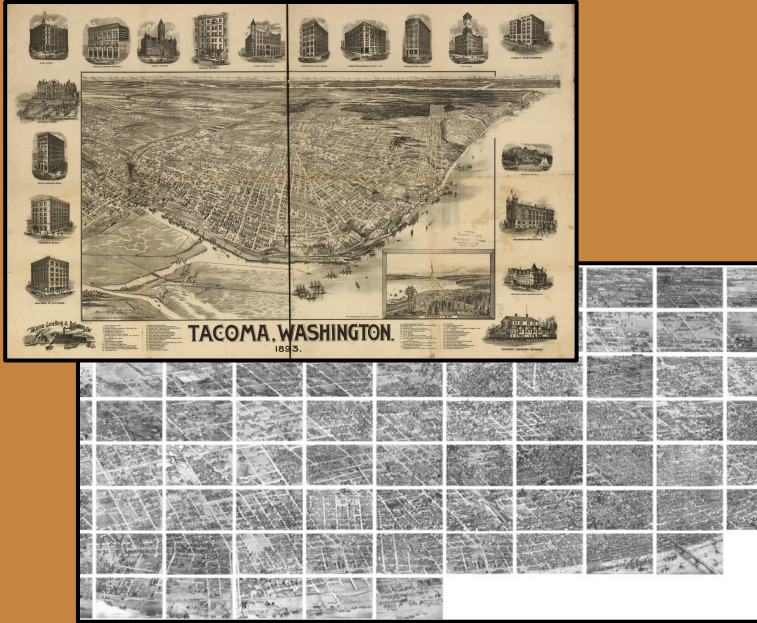


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# Using Python to Connect People to Nature



# Static >>> to >>> Interactive



Goal: Take large static images, create map tiles with python.

Input - static images (JPEG, TIFF, PNG)  
Output - map tiles

```
import os, gdal

in_path = 'C:/Users/Amy/Desktop/MSGT_19/501_Final'
input_filename = 'tacoma1893'

out_path = 'C:/Users/Amy/Desktop/MSGT_19/501_Final/output'
output_filename = 'maptileTac'

tile_size_x = 50
tile_size_y = 70

ds = gdal.Open(in_path + input_filename)
band = ds.GetRasterBand(1)
xsize = band.XSize
ysize = band.YSize

for i in range(0, xsize, tile_size_x):
    for j in range(0, ysize, tile_size_y):
        com_string = "gdal_translate -of GTIFF -srcwin " + s
        os.system(com_string)
```

# What are people saying about nature?

```
#-----
#1: NEWS SEARCH
from azure.cognitiveservices.search.newssearch import NewsSearchAPI
from msrest.authentication import CognitiveServicesCredentials
import requests

#2 SENTIMENT ANALYSIS
def azure_sentiment(text):
    import requests

#3: GEOCODE
#REST geocoding API

def BizLoc(name):
    place = 'https://atlas.microsoft.com/search/poi/json?subs
tr(name) + '&limit=1'
    response = requests.get(place)
    loc = response.json()
    if loc['results']:
        y, x = loc['results'][0]['position']['lat'], loc['res
    return y, x
    else:
        return 0, 0
```

What are people  
saying about nature?

Goal: Using local  
newstories to see  
what people are  
saying about nature,  
from 1980-current.

