obia way…..PlanetScope, very high resolution

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pick an area

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latest image

​Building footprint analysis with high resolution satellite imagery

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Automatic analysis of building footprints with very high resolution satellite imagery

https://www.lfd.uci.edu/~gohlke/pythonlibs/#gdal

|  |
| --- |
| from osgeo import gdal, ogr, osr |
|  |  | import numpy as np |
|  |  |  |
|  |  | ## osgeo has to be installed fisrt |
|  |  | ## Download a proper GDAL wheel file (.whl) from here: |
|  |  | ## https://www.lfd.uci.edu/~gohlke/pythonlibs/#gdal |
|  |  | ## After install it with pip: pip install path\_to\_wheelfile.whl |
|  |  | ## Then the 'osgeo import' shall work |
|  |  |  |
|  |  | raster\_path = "d:/git/building-footprints/PL\_PS\_20200723T0742\_ALL\_Tile\_0\_0\_qKSm9prB.tif" |
|  |  | datasrc = gdal.Open(raster\_path) |
|  |  | numpy\_array = datasrc.ReadAsArray().astype(np.float) |
|  |  |  |
|  |  | ## Try to some statistics first, e.g. with numpy |

The first step is to read data from the image into python using gdal and numpy. This is done by creating a gdal Dataset with gdal.Open(), then reading data from each of the four bands in the image (red, green, blue, and near-infrared). The code below give the specifics of the process.