## 4.2 Download raw data (optional)

## (中文版)

If a dataset is already in local disk, make sure it's in directory <a href="raw\_dir">raw\_dir</a>. If one wants to run the code anywhere without bothering to download and move data to the right directory, one can do it automatically by implementing function <a href="download">download</a>().

If the dataset is a zip file, make MyDataset inherit from dgl.data.DGLBuiltinDataset class, which handles the zip file extraction for us. Otherwise, one needs to implement download() like in QM7bDataset:

```
import os
from dgl.data.utils import download

def download(self):
    # path to store the file
    file_path = os.path.join(self.raw_dir, self.name + '.mat')
    # download file
    download(self.url, path=file_path)
```

The above code downloads a .mat file to directory <code>self.raw\_dir</code>. If the file is a .gz, .tar, .tar.gz or .tgz file, use <code>extract\_archive()</code> function to extract. The following code shows how to download a .gz file in <code>BitcoinotCDataset</code>:

The above code will extract the file into directory self.name under self.raw\_dir. If the class inherits from dgl.data.DGLBuiltinDataset to handle zip file, it will extract the file into directory self.name as well.

Optionally, one can check SHA-1 string of the downloaded file as the example above does, in case the author changed the file in the remote server some day.