

Downloading files

Jeffrey Leek Johns Hopkins Bloomberg School of Public Health

Get/set your working directory

- A basic component of working with data is knowing your working directory
- The two main commands are getwd () and setwd ().
- Be aware of relative versus absolute paths

```
- Relative - setwd( 1. /data 1, setwd( 1. / 1)
```

- Absolute- setwd(1/Users/jtleek/data/ 1/
- Important difference in Windows setwd ("c:\\users\\Andrew\\Downloads")

Checking for and creating directories

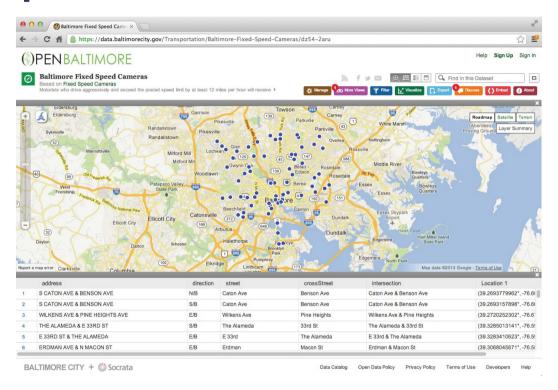
- file.exists (a directoryName a) will check to see if the directory exists
- → dir.create (directoryName → will create a directory if it doesn't exist
- · Here is an example checking for a "data" directory and creating it if it doesn't exist

```
if (!file.exists("data", ) ;
    dir.create('data', )
}
```

Getting data from the internet - download. fileO

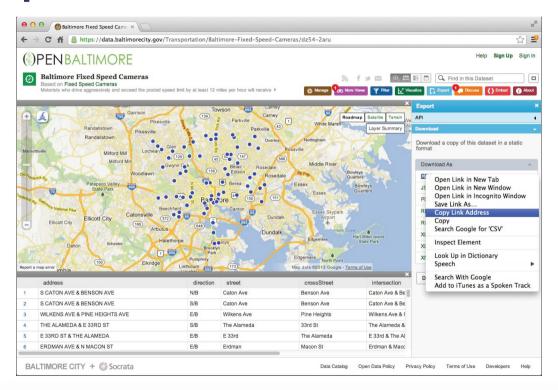
- Downloads a file from the internet
- · Even if you could do this by hand, helps with reproducibility
- · Important parameters are url, destfile, method
- Useful for downloading tab-delimited, csv, and other files

Example - Baltimore camera data



https://data.baltimorecity.gov/Transportation/Baltimore-Fixed-Speed-Cameras/dz54-2aru

Example - Baltimore camera data



https://data.baltimorecity.gov/Transportation/Baltimore-Fixed-Speed-Cameras/dz54-2aru

Download a file from the web

```
fileUrl <- "https://data.baltimorecity.gov/api/views/dz54-2aru/rows.csv?accessType=DOWNLOAD"
download.file(fileUrl, destfile = "./data/cameras.csv", method = "curl")
list.files("./data")</pre>
```

```
## [1] "cameras.csv"
```

```
dateDownloaded <- date()
dateDownloaded
```

```
## [1] "Sun Jan 12 21:37:44 2014"
```

Some notes about download.file()

- · If the url starts with http you can use download.file()
- · If the url starts with https on Windows you may be ok
- If the url starts with https on Mac you may need to set method="curl"
- · If the file is big, this might take a while
- · Be sure to record when you downloaded.