

Downloading files

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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("./data"), setwd("../")
 - Absolute setwd("/Users/jtleek/data/")
- Important difference in Windows setwd("C:\\Users\\Andrew\\Downloads")

Checking for and creating directories

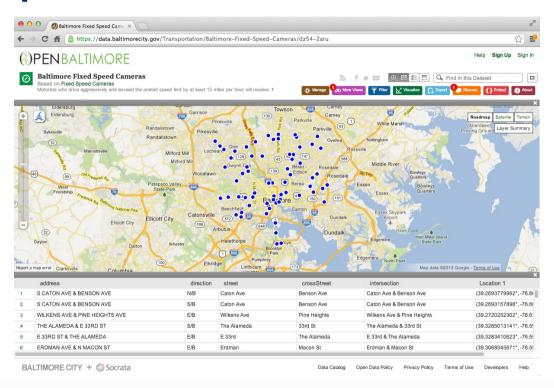
- · file.exists("directoryName") will check to see if the directory exists
- · dir.create("directoryName") will create a directory if it doesn't exist
- · Here is an example checking for a "data" directory and creating it if it doesn't exist

```
if (!file.exists("data")) {
    dir.create("data")
}
```

Getting data from the internet - download.file()

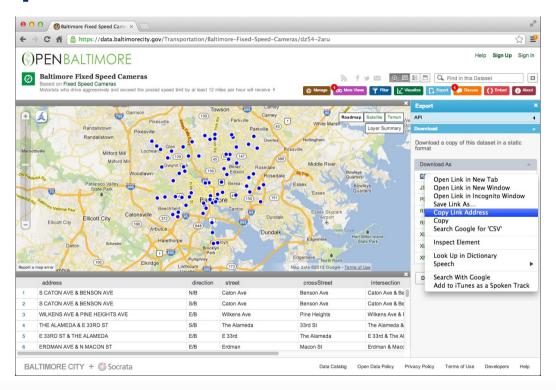
- Downloads a file from the internet
- · Even if you could do this by hand, helps with reproducibility
- · Important parameters are url, destfile, method
- · Useful for downloading tab-delimited, csv, and other files

Example - Baltimore camera data



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

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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</pre>
```

```
## [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.