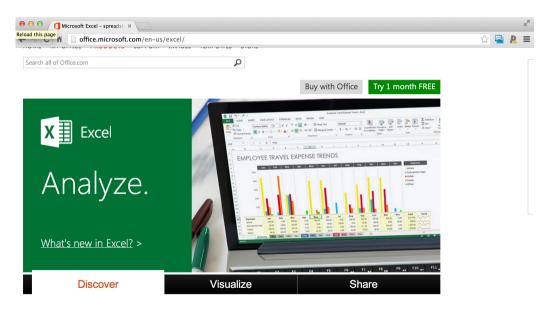


Reading Excel files

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Excel files

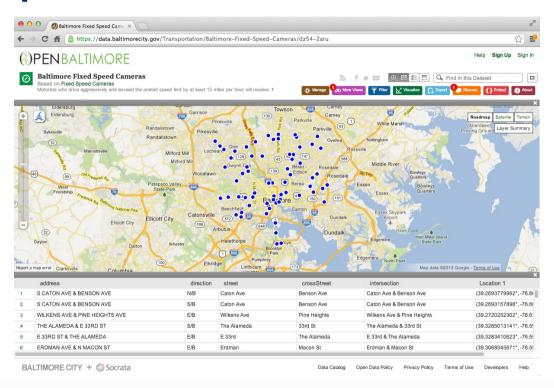
Still probably the most widely used format for sharing data



Discover and reveal the insights hidden in your data

http://office.microsoft.com/en-us/excel/

Example - Baltimore camera data



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

Download the file to load

```
if(!file.exists("data")){dir.create("data")}
fileUrl <- "https://data.baltimorecity.gov/api/views/dz54-2aru/rows.xlsx?accessType=DOWNLOAD"
download.file(fileUrl,destfile="./data/cameras.xlsx",method="curl")
dateDownloaded <- date()</pre>
```

read.xlsx(), read.xlsx2() {xlsx package}

```
library(xlsx)
cameraData <- read.xlsx("./data/cameras.xlsx", sheetIndex=1, header=TRUE)
head(cameraData)</pre>
```

```
address direction
                                                        crossStreet.
                                                                                   intersection
                                                street.
        S CATON AVE & BENSON AVE
                                       N/B
                                             Caton Ave
                                                         Benson Ave
                                                                        Caton Ave & Benson Ave
                                       S/B
        S CATON AVE & BENSON AVE
                                             Caton Ave Benson Ave
                                                                        Caton Ave & Benson Ave
                                       E/B Wilkens Ave Pine Heights Wilkens Ave & Pine Heights
3 WILKENS AVE & PINE HEIGHTS AVE
                                       S/B The Alameda
                                                            33rd St.
                                                                        The Alameda & 33rd St.
         THE ALAMEDA & E 33RD ST
                                                E 33rd The Alameda
                                                                         E 33rd & The Alameda
        E 33RD ST & THE ALAMEDA
                                       E/B
  (39.2693779962, -76.6688185297)
 (39.2693157898, -76.6689698176)
   (39.2720252302, -76.676960806)
4 (39.3285013141, -76.5953545714)
5 (39.3283410623, -76.5953594625)
6 (39.3068045671, -76.5593167803)
```

Reading specific rows and columns

```
direction street

1 N/B Caton Ave

2 S/B Caton Ave

3 E/B Wilkens Ave
```

Further notes

- · The write.xlsx function will write out an Excel file with similar arguments.
- · read.xlsx2 is much faster than read.xlsx but for reading subsets of rows may be slightly unstable.
- · The XLConnect package has more options for writing and manipulating Excel files
- · The XLConnect vignette is a good place to start for that package
- · In general it is advised to store your data in either a database or in comma separated files (.csv) or tab separated files (.tab/.txt) as they are easier to distribute.