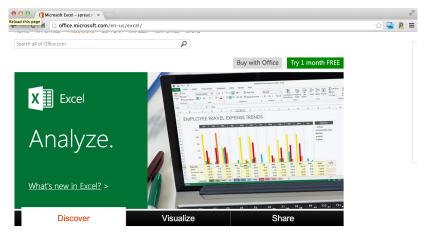
Reading Excel files

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May 17, 2016

Excel files

Still probably the most widely used format for sharing data



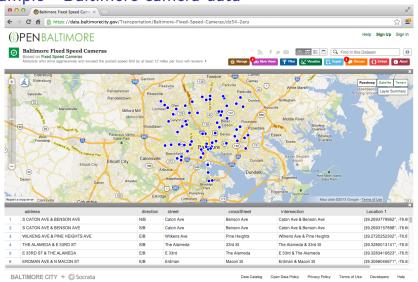
Discover and reveal the insights hidden in your data

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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/dz54-2
download.file(fileUrl,destfile="./data/cameras.xlsx",method
dateDownloaded <- date()</pre>
```

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

library(xlsx)

```
## Loading required package: rJava
```

Loading required package: methods

```
## Loading required package: xlsxjars
```

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

```
## address direction street
## 1 S CATON AVE & BENSON AVE N/B Caton Ave
```

2 S CATON AVE & BENSON AVE S/B Caton Ave ## 3 WILKENS AVE & PINE HEIGHTS AVE E/B Wilkens Ave I ## 4 THE ALAMEDA & E 33RD ST S/B The Alameda

5 E 33RD ST & THE ALAMEDA E/B E 33rd ## 6 ERDMAN AVE & N MACON ST E/B Erdman

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.