Data Handle

James Woods

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Reading Data In

Financial Data

This was downloaded from Oregon department of eduction.

```
DistrictFinance <- read.csv("https://s3-us-west-2.amazonaws.com/woodsjeeschools/ActualExpendituresFundF

library(stringr)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
#Convert to starting of fiscal year.  Remember that the year may not match with the test scores.
DistrictFinance$YearBeginning <- as.factor(str_sub(as.character(DistrictFinance$SchlYr),-4) )

summary(DistrictFinance)
```

```
##    DistInstID       SchlYr          FundCd           FuncCd
## Min.   :1894   7/1/2000: 11307   Min.   :100.0   Min.   :1000
## 1st Qu.:1994   7/1/2002: 11085   1st Qu.:100.0   1st Qu.:1250
## Median :2087   7/1/2001: 11056   Median :100.0   Median :2210
## Mean   :2096   7/1/2003: 10870   Mean   :174.8   Mean   :2160
## 3rd Qu.:2188   7/1/2008: 10809   3rd Qu.:200.0   3rd Qu.:2540
## Max.   :4131   7/1/2009: 10809   Max.   :800.0   Max.   :7000
##                (Other) :107616
##    MajFuncCd                               MajFuncDesc
## Min.   :1000   Contingencies                         :   59
## 1st Qu.:1000   Enterprise and Community Services     : 7114
## Median :2000   Facilities Acquisition and Construction: 4108
## Mean   :1879   Instruction                           :64751
## 3rd Qu.:2000   Other Uses                            : 9175
## Max.   :7000   Support Services                      :88204
##                Unappropriated Ending Fund Balance    :  141
##                     FundDesc
## General Fund          :94238
## Special Revenue Funds :62561
## Capital Projects Funds: 5804
## Trust and Agency Funds: 4326
## Internal Service Funds: 2941
```

```
##  Debt Service Funds    : 2804
##  (Other)               :  878
##                                              FuncDesc         Amount
##  Operation and Maintenance of Plant Services:  6905   Min.   : -1146278
##  Primary (K-3)                              :  6087   1st Qu.:    13235
##  High School Programs                       :  6027   Median :    80166
##  Fiscal Services                            :  5787   Mean   :   639628
##  Technology Services                        :  5769   3rd Qu.:   335661
##  High School  Extra-curricular              :  5584   Max.   :490931880
##  (Other)                                    :137393
##         CntyNm                          DistNm      InstTypCd
##  LANE      : 15083   Tigard-Tualatin SD 23J   : 1527   D:160115
##  CLACKAMAS : 11928   Eugene SD 4J             : 1442   E: 13437
##  DOUGLAS   : 11388   Forest Grove SD 15       : 1348
##  MARION    : 11160   Oregon City SD 62        : 1304
##  MULTNOMAH :  9613   Greater Albany Public SD 8J: 1291
##  WASHINGTON:  9438   Canby SD 86              : 1290
##  (Other)   :104942   (Other)                  :165350
##    MajFuncTot          FundTot          last.column YearBeginning
##  Min.   : -1146278  Min.   :   -2710   -:173552   2000   : 11307
##  1st Qu.:   479035  1st Qu.:  1640256              2002   : 11085
##  Median :  1945519  Median :  5458304              2001   : 11056
##  Mean   :  7688189  Mean   : 18237559              2003   : 10870
##  3rd Qu.:  6716538  3rd Qu.: 17222734              2008   : 10809
##  Max.   :501057554  Max.   :836236630              2009   : 10809
##                                                    (Other):107616
```

Test data read

```r
library(openxlsx)

# New combined files
Tests15 <- read.xlsx("https://www.oregon.gov/ode/educator-resources/assessment/TestResults2015/pagr_sch

Tests16  <- read.xlsx("https://www.oregon.gov/ode/educator-resources/assessment/TestResults2016/pagr_scl

#Older files by topic can't be opened by xlsx so saving in gdocs and reading via csv.  These were downl

## Math

Math14 <- read.csv("https://docs.google.com/spreadsheets/d/1mKkhwPVO_J4p8RCBuKiJauYz8Kx7xdBx4Yq9xqlVjss,

Math13 <- read.csv("https://docs.google.com/spreadsheets/d/107Lp_UBqcTnObunO1lIPhqOsBOrpfSryHdW1HYY6qm4,

Math12 <- read.csv("https://docs.google.com/spreadsheets/d/1imChJVXmq4iVeaeB2S8qCeM01GxVegOhwW6v4RBswTI,

Math11 <- read.csv("https://docs.google.com/spreadsheets/d/12Tqn4RORNI2w3KoiqnVpq_Trd3Zm1MM51I5YXDZFvfk,

Math10 <- read.csv("https://docs.google.com/spreadsheets/d/1CXKQ_yzcvQfEcS9C3iBD3Hsvj4ZqJ6ISuFwgoghzEFI,

## Reading
```

```r
Read14 <- read.csv("https://docs.google.com/spreadsheets/d/1yJrAFMCcrqB8C_hLRDr6pN1ZWU4KUPON1CMc3h3yeAM/
Read13 <- read.csv("https://docs.google.com/spreadsheets/d/1MBhoFCZg2nAV7cSQnK0QX4s8yF8Oeda-ceaqWpyA3DA/
Read12 <- read.csv("https://docs.google.com/spreadsheets/d/1msHh_WXdRAKTPeUP6OgvK9AzWlbSx5O7pMBntq83dSA/
Read11 <- read.csv("https://docs.google.com/spreadsheets/d/10e_P_Pxi4eIWtEWZZNfftzGNCdqNSvckMSfMaxYDZA4/
Read10 <- read.csv("https://docs.google.com/spreadsheets/d/1DScEAY9FPLRv7QoQrIhjNYQdF6LY078ZvVUQmnB2jWA/


## Science

Sci14 <- read.csv("https://docs.google.com/spreadsheets/d/1AhXN382JnOrDv3MMp6bBI640VpZTpf1uuI-gm-xep3M/
Sci13 <- read.csv("https://docs.google.com/spreadsheets/d/1JeEBL4yMxqKbnTh43mi-L5HEyaXBO96iuzw9UNUi0dE/
Sci12 <- read.csv("https://docs.google.com/spreadsheets/d/1tBnFq7P9r65zGP9AFEvVBExUCrGJWh9FystJryk83TI/
Sci11 <- read.csv("https://docs.google.com/spreadsheets/d/1hAJjcuFxSbLyWZ_b5Xp-ciZcQT1muYTf180SYUFHMVc/
Sci10 <- read.csv("https://docs.google.com/spreadsheets/d/1HZJxmJ-n0dEdkNLlNox8lhUEkWdBigoycdB4Gh-mAlg/


## Writting

Write14 <- read.csv("https://docs.google.com/spreadsheets/d/1rXrvkCAAFrO8_N-6YznQwuId0NTMOlo9OrI5wX18jJw
Write13 <- read.csv("https://docs.google.com/spreadsheets/d/1EXWDmHLyXVjenck1AiXxxDRpqFEJEMuwt_XBLzTGoze
Write12 <- read.csv("https://docs.google.com/spreadsheets/d/1F4DNMNUAcV4U8ONIJcLXzNYvZII8n2VdhnynId8WLpl

#only 4-7
Write11 <- read.csv("https://docs.google.com/spreadsheets/d/1wuENaBv747xUCj5NGT9CtIM79QqMHzxK3NAWyqWmiEd

#only 4-7
Write10 <- read.csv("https://docs.google.com/spreadsheets/d/167c1jshh1156x-vJUE7L-ROEJTstuIegssfMwKwUEXl
```

Eligible schools

Not all schools are eligible. They must be served by an IOU. Original file has odd formating. So, saved and accessed via gdrive.

```r
#Non readable because of formating to make pretty.
#read.xlsx("http://www.oregon.gov/energy/SCHOOLS/Sb1149/documents/schools_list.xls")

Eligible <- read.csv("https://docs.google.com/spreadsheets/d/1WXNu3cNY4DyZ7yWXT2MPd3bd61M0Vmo2ty62Uux1T7
```

Installed measures

```r
EEMs <-read.csv("https://docs.google.com/spreadsheets/d/15X3x4KCEx2-_JYLjq3gXhqS33EKBscW_LLPO-MggDFk/pul
```

District demographics

Load dataframes for School performance from 2002-2016. The name for each dataframe is "Schoolxx" where xx is the last 2 digits of the ending academic year from which the data is for. The formating and the information provided in these school report cards slightly changes after 2012.

```r
Schools16 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/17/RCmediaSchoolsAggregate.csv")
Schools15 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/16/RCmediaSchoolsAggregate.csv")
Schools14 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/15/RCmediaSchoolsAggregate.csv")
Schools13 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/14/RCmediaSchoolsAggregate.csv")
```

```r
Schools12 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/13/RCmediaSchoolsAggregate.csv")
Schools11 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/12/RCmediaSchoolsAggregate.csv")
Schools10 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/11/RCmediaSchoolsAggregate.csv")
Schools09 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/10/RCmediaSchoolsAggregate.csv")
Schools08 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/09/RCmediaSchools.csv")
Schools07 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/08/RCmediaSchools.csv")
Schools06 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/07/RCmediaSchools.csv")
Schools05 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/06/RCmediaSchools.csv")
Schools04 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/05/RCmediaSchools.csv")
Schools03 <- read.csv("http://www.ode.state.or.us/data/reportcard/media/04/RCmedia.csv")
```