

cm011

```
library("tidyverse")

## -- Attaching packages ----- tidyverse 1.2.1 --
## v ggplot2 3.2.1      v purrr  0.3.2
## v tibble  2.1.3      v dplyr  0.8.3
## v tidyr   1.0.0      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.4.0

## Warning: package 'ggplot2' was built under R version 3.5.2
## Warning: package 'tibble' was built under R version 3.5.2
## Warning: package 'tidyr' was built under R version 3.5.2
## Warning: package 'purrr' was built under R version 3.5.2
## Warning: package 'dplyr' was built under R version 3.5.2
## Warning: package 'stringr' was built under R version 3.5.2
## Warning: package 'forcats' was built under R version 3.5.2

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

library("gapminder")
library("tidyverse")
library("tidyr")
library("dplyr")
```

file export/import

```
write_csv(gapminder, './gapminder.csv') # '.' means current directory
View(gapminder)

gapminder_sum <- gapminder %>%
  group_by(continent) %>%
  summarize(ave_lifeExp = mean(lifeExp))

View(gapminder_sum)
write_csv(gapminder_sum, './gapminder_sum.csv')

gapminder_csv <- read_csv('./gapminder_sum.csv')

## Parsed with column specification:
## cols(
##   continent = col_character(),
##   ave_lifeExp = col_double()
## )

View(gapminder_csv)
ls()
```

```
## [1] "gapminder_csv" "gapminder_sum"
#detach all the variables attached
list=ls()
remove(list=ls())
ls()
```

```
## character(0)
```

here::here()

```
gapminder_sum <- gapminder %>%
  group_by(continent) %>%
  summarize(ave_lifeExp = mean(lifeExp))
write_csv(gapminder_sum, here::here("gapminder_sum.csv"))

library("here")
```

```
## here() starts at /Users/samkristencan/Documents/UBC/Courses/STAT 545/Git
data_url <- "http://gattonweb.uky.edu/sheather/book/docs/datasets/GreatestGivers.xls"

download.file(url = data_url,
              destfile = here::here("test", "GreatestGivers.xls"))
```

```
## Warning in download.file(url = data_url, destfile = here::here("test",
## "GreatestGivers.xls")): URL http://gattonweb.uky.edu/sheather/book/docs/
## datasets/GreatestGivers.xls: cannot open destfile '/Users/samkristencan/
## Documents/UBC/Courses/STAT 545/Git/test/GreatestGivers.xls', reason 'No
## such file or directory'
```

```
## Warning in download.file(url = data_url, destfile = here::here("test",
## "GreatestGivers.xls")): download had nonzero exit status
```

readxl: importing excel file

```
library(readxl)
```

```
## Warning: package 'readxl' was built under R version 3.5.2
```

```
philanthropists <- read_excel(here::here("Greatestgivers.xls"), trim_ws = TRUE)
View(philanthropists)
library("here")
```