Introduction to the Tidyverse

Import, wrangle, model, and communicate data

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Working with data in R

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They live as, R packages, each of which does one thing well.

library(tidyverse) will load

the core packages:

ggplot2, for data visualisation.

dplyr, for data manipulation.

tidyr, for data tidying.

readr, for data import.

purrr, for functional programming.

tibble, for tibbles, a modern re-imagining of data frames.

stringr, for strings.

forcats, for factors.



This course is hands on!

Each section has an exercises file: exercises.Rmd

exercises.Rmd

```
title: "Import Data"
output: html document
```{r setup}
library(tidyverse)
library(haven)
In this section, we will learn about importing and exporting files from common file formats, including
CSV and formats from other statistical software using the readr and haven packages.
readr
readr supplies several related functions, each designed to read in a specific flat file format.
Function
 Reads
`read_csv2()`
 | Semi-colon separate values
`read_delim()`
 | General delimited files
`read fwf()`
 I Fixed width files
`read log()`
 I Apache log files
readr 🕏
```

#### code chunks

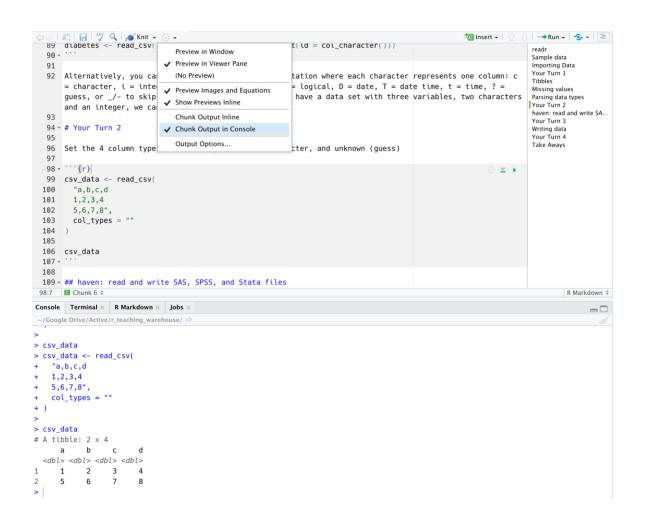
```
csv_data <- read_csv(
 "a,b,c,d
 1,2,3,4
 5,6,7,8",
 col_types = ""
)

csv_data
...</pre>
```

## running code chunks

```
```{r}
csv_data <- read_csv(
  "a,b,c,d
  1,2,3,4
  5,6,7,8",
  col_types = ""
csv_data
                                           <dbl>
               <dbl>
                      <dbl>
                               <dbl>
                           3
                                    4
         5
                  6
                           7
                                    8
  2 rows
```

outputting to the console



Project contents

Let's head to http://bit.ly/master_r_epi