# Introduction to the Tidyverse

Import, wrangle, model, and communicate data

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#### Working with data in R

the tidyverse is a collection of friendly and consistent tools for data analysis and visualization.

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the tidyverse is a collection of friendly and consistent tools for data analysis and visualization.

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

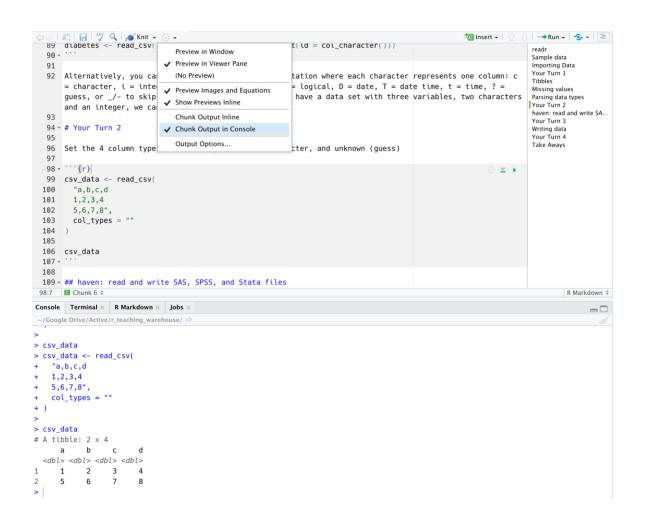
```
csv_data <- read_csv(
   "a,b,c,d
   1,2,3,4
   5,6,7,8",
   col_types = ""
)

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 https://rstudio.cloud/