# Chapter8

#### Ayush Kumar Shah

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## Chapter 8 Data import with readr

- readr is imported with tidyverse
- functions in readr

```
read_csv()read_tsv()read_delim() (any delimiter)read_fwf() (fixed width file)
```

```
library(tidyverse)
```

### $Rad\_csv$

read\_csv different from read.csv of R.

```
# heights <- read_csv("data/heights.csv")
#> Parsed with column specification:
#> cols(
#> earn = col_double(),
#> height = col_double(),
#> sex = col_character(),
#> ed = col_integer(),
#> age = col_integer(),
#> race = col_character()
#> )
```

#### Inline tables

read\_csv("a,b,c

```
1,2,3
4,5,6")
## # A tibble: 2 x 3
## a b c
## <dbl> <dbl> <dbl>
## 1 1 2 3
## 2
      4 5
Documenting the data
read_csv("The first line of metadata
The second line of metadata
1,2,3", skip = 2)
## # A tibble: 1 x 3
   x y z
## <dbl> <dbl> <dbl>
## 1 1 2
read_csv("# A comment I want to skip
1,2,3", comment = "#")
## # A tibble: 1 x 3
## x y z
## <dbl> <dbl> <dbl>
## 1 1 2 3
Give default names to columns
read_csv("1,2,3\n4,5,6", col_names = FALSE)
## # A tibble: 2 x 3
##
      X1
         X2 X3
## <dbl> <dbl> <dbl>
## 1 1 2 3
      4 5
## 2
Pass col names
read_csv("1,2,3\n4,5,6", col_names = c("x", "y", "z"))
```

Missing data

```
read_csv("a,b,c\n1,2,.", na = ".")
```

```
## # A tibble: 1 x 3
## a b c
## <dbl> <dbl> <lgl> ## 1 1 2 NA
```

### Advantages compared to R's read.csv

- Faster (10x), progress bar.
- produce tibbles.
- $\bullet\,$  more reproducible across all type of systems.