

# Data import with the tidyverse

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## Read Tabular Data with readr

```
file_dt <- readr::read_delim(file = "file.csv", delim = ",")
file_dt
```

```
## # A tibble: 2 x 1
##   `A;B;C`
##   <chr>
## 1 1;2;3
## 2 4;5;NA
```

```
# library(readr)
readr::read_csv(file = "file.csv", col_names = c("C1", "C2", "C3"))
```

```
## # A tibble: 3 x 1
##   C1
##   <chr>
## 1 A;B;C
## 2 1;2;3
## 3 4;5;NA
```

```
readr::read_csv2("file.csv", col_names = c("C1", "C2", "C3"))
```

```
## # A tibble: 3 x 3
##   C1    C2    C3
##   <chr> <chr> <chr>
## 1 A      B      C
## 2 1      2      3
## 3 4      5    <NA>
```

```
readr::read_csv(c("data/f1.csv", "data/f2.csv"))
```

```
## # A tibble: 5 x 3
##   X      Y      Z
##   <chr> <chr> <chr>
## 1 A      B      C
## 2 1      2      3
## 3 4      5    <NA>
## 4 0      2      3
## 5 4     -10    <NA>
```

```
c("data/f1.csv","data/f2.csv")
```

```
## [1] "data/f1.csv" "data/f2.csv"
```

```
library(tidyverse)
```

```
fnames <- list.files("data", pattern = "\\..csv$")
```

```
files_to_combine <- stringr::str_c("data/",fnames)
```

```
files_to_combine
```

```
## [1] "data/f1 - Copy - Copy.csv"      "data/f1 - Copy (2).csv"
## [3] "data/f1 - Copy.csv"             "data/f1.csv"
## [5] "data/f2 - Copy - Copy - Copy.csv" "data/f2 - Copy - Copy (2).csv"
## [7] "data/f2 - Copy - Copy.csv"      "data/f2 - Copy (2).csv"
## [9] "data/f2 - Copy.csv"             "data/f2.csv"
```

```
readr::read_csv(file = files_to_combine, id="filenames")
```

```
## # A tibble: 24 x 4
##   filenames      X      Y      Z
##   <chr>      <chr> <chr> <chr>
## 1 data/f1 - Copy - Copy.csv A      B      C
## 2 data/f1 - Copy - Copy.csv 1      2      3
## 3 data/f1 - Copy - Copy.csv 4      5      <NA>
## 4 data/f1 - Copy (2).csv    A      B      C
## 5 data/f1 - Copy (2).csv    1      2      3
## 6 data/f1 - Copy (2).csv    4      5      <NA>
## 7 data/f1 - Copy.csv        A      B      C
## 8 data/f1 - Copy.csv        1      2      3
## 9 data/f1 - Copy.csv        4      5      <NA>
## 10 data/f1.csv              A      B      C
## # ... with 14 more rows
```