02 Intro to Tidyverse

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```
pacman::p_load(tidyverse)
```

Understanding R's read.csv vs Tidy's read_csv

There are several advantages of `read_csv` as compared to `read.csv`.

```
data_dot <-read.csv("data/simple_data.csv")
data_dot
```

```
   Header.Start.from.1 Header.2 Header.3
1                    1        a    dasda
2                    2        b    asdas
3                    3        a     adas
4                    4        b    dasda
5                    5        a    asdas
6                    6        b     adas
7                    7        a    dasda
8                    8        b    asdas
9                    9        a     adas
10                  10        b    dasda
11                  11        a    asdas
12                  12        b     adas
13                  13        a    dasda
14                  14        b    asdas
```

```
15                  15        a     adas
16                  16        b    dasda
17                  17        a    asdas
18                  18        b     adas
19                  19        a    dasda
```

```
data <-read_csv("data/simple_data.csv")
```

```
Rows: 19 Columns: 3
-- Column specification --------------------------------------------------------
Delimiter: ","
chr (2): Header 2, Header 3
dbl (1): Header Start from 1

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
data
```

```
# A tibble: 19 x 3
   `Header Start from 1` `Header 2` `Header 3`
                   <dbl> <chr>      <chr>
 1                     1 a          dasda
 2                     2 b          asdas
 3                     3 a          adas
 4                     4 b          dasda
 5                     5 a          asdas
 6                     6 b          adas
 7                     7 a          dasda
 8                     8 b          asdas
 9                     9 a          adas
10                    10 b          dasda
11                    11 a          asdas
12                    12 b          adas
13                    13 a          dasda
14                    14 b          asdas
15                    15 a          adas
16                    16 b          dasda
17                    17 a          asdas
18                    18 b          adas
19                    19 a          dasda
```

Notes:

1. In R, array indexes start at 1.
2. Notice how `read.csv` replaces spaces with dots, while in `read_csv`, you can refer to columns with spaced headers as is.