

Exploring Data with the Tidyverse

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The Data

- Information about passengers on the HMS Titanic

```
head(titanic)
```

```
##      Survived Pclass
## 1          0      3      Mr. Owen B
## 2          1      1 Mrs. John Bradley (Florence Briggs Th
## 3          1      3      Miss. Laila
## 4          1      1      Mrs. Jacques Heath (Lily May Pe
## 5          0      3      Mr. William
## 6          0      3      Mr.

##      Sex Age Siblings.Spouses.Aboard Parents.Children.A
## 1  male  22              1
## 2 female  38              1
## 3 female  26              0
## 4 female  35              1
## 5  male  35              0
## 6  male  27              0
```

What do we know?

```
str(titanic)
```

```
## 'data.frame':      887 obs. of  8 variables:
##  $ Survived          : int   0 1 1 1 0 0 0 0 1 1 ...
##  $ Pclass            : int   3 1 3 1 3 3 1 3 3 2 ...
##  $ Name              : Factor w/ 887 levels "Capt.
##  $ Sex               : Factor w/ 2 levels "female"
##  $ Age              : num   22 38 26 35 35 27 54 2
##  $ Siblings.Spouses.Aboard: int   1 1 0 1 0 0 0 3 0 1 ...
##  $ Parents.Children.Aboard: int   0 0 0 0 0 0 0 1 2 0 ...
##  $ Fare              : num   7.25 71.28 7.92 53.1 8
```

- ▶ How many passengers were there?
- ▶ What information did we collect about them?

What do we know?

- ▶ How many passengers were there?

887

- ▶ What information did we collect about them?

Character/factor: Name, Gender, Travel Class, whether t

Numeric: Age, number of Siblings/spouses with them, nu

What do we know?

```
titanic[118,]
```

```
##      Survived Pclass                Name  Sex Age  
## 118         0       1 Mr. Quigg Edmond Baxter male  24  
##      Siblings.Spouses.Aboard Parents.Children.Aboard  
## 118                                0                    1 247.
```

Tell me about this person!

What do we know?

```
titanic[118,]
```

```
##      Survived Pclass                Name  Sex Age  
## 118         0        1 Mr. Quigg Edmond Baxter male  24  
##      Siblings.Spouses.Aboard Parents.Children.Aboard  
## 118                                0                                1 247
```

Mr. Quigg Edmond Baxter was a 24 year old male, travelling

- ▶ Google him for some great 1920s gossip!