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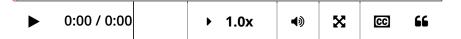
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Group By Group By

Start of transcript. Skip to the end.





RAFAEL IRIZARRY: A very common operation and data exploration

is to first split data into groups and then compute summaries for each group.

For example, we may want to compute the average and standard deviation for men

and women heights

Video



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Textbook link

This video corresponds to the <u>textbook section on grouping then summarizing</u>.

Key points

- The group_by() function from **dplyr** converts a data frame to a grouped data frame, creating groups using one or more variables.
- summarize() and some other **dplyr** functions will behave differently on grouped data frames.
- Using summarize() on a grouped data frame computes the summary statistics for each of the separate groups.

Code

```
# libraries and data
library(tidyverse)
library(dslabs)
data(heights)
data(murders)

# compute separate average and standard deviation for male/female heigh
heights %>%
    group_by(sex) %>%
    summarize(average = mean(height), standard_deviation = sd(height))

# compute median murder rate in 4 regions of country
murders <- murders %>%
    mutate(murder_rate = total/population * 100000)
murders %>%
    group_by(region) %>%
    summarize(median_rate = median(murder_rate))
```

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