

STAT 451 - Visualizing Data - Autumn 2025

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10/07/2025

Lab 2: Ggplot2 - Exercise 2

In this lab, you are going to explore an educational data set by making several one- and two-dimensional visualizations. Do not forget to add aesthetics to the plot.

Libraries

Load the necessary libraries.

```
library(tidyverse)
```

Data

Load the data.

```
df_edu <- read_csv("../data/xAPI-Edu-Data.csv")
```

1D plots

Make one-dimensional plots to visualize the data set by topic, gender, parent's school satisfaction and visited resources.

You may choose between bar plots and histograms.

Fill the cell with the code to make the plots.

2D plots

Make two-dimensional plots to visualize the relationship between:

- number of visited resources by topic,
- number of announcement views and number of visited resources,
- discussion participation by gender

You may choose between box plots or scatter plots.

Fill the cell with the code to make the plots.