

Lab 3 - Improving the Default Visualization

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10/10/2023

In this lab, we are going to improve some of the plots from Lab 2 by adding aesthetics to the plot.

Libraries

Load the necessary libraries.

```
library(tidyverse)

## -- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
## v dplyr      1.1.3      v readr      2.1.4
## v forcats    1.0.0      v stringr   1.5.0
## v ggplot2     3.4.3      v tibble    3.2.1
## v lubridate  1.9.3      v tidyr     1.3.0
## v purrr      1.0.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

Data

Load the data.

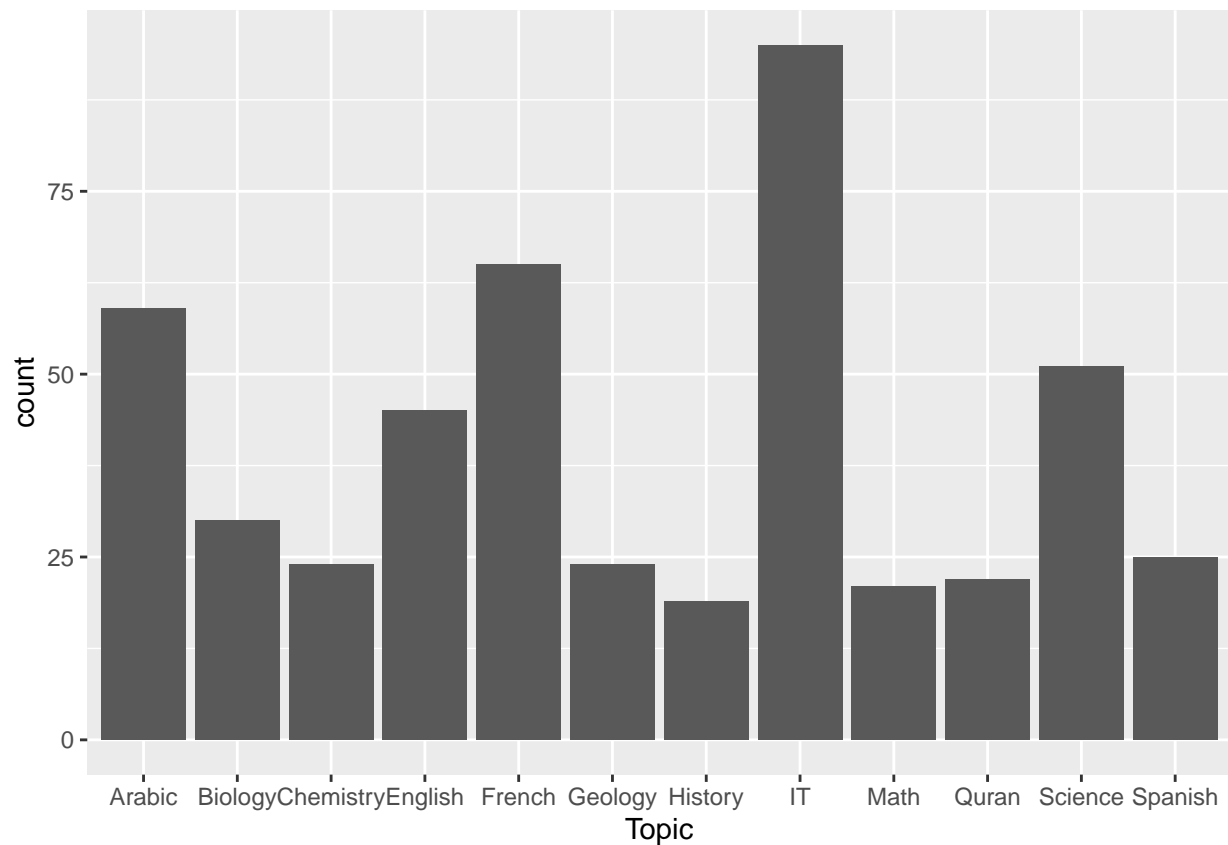
```
df_edu <- read_csv("../data/xAPI-Edu-Data.csv")

## Rows: 480 Columns: 13
## -- Column specification -----
## Delimiter: ","
## chr (9): gender, GradeID, Topic, Semester, Relation, ParentAnsweringSurvey, ...
## dbl (4): raisedhands, VisitedResources, AnnouncementsView, Discussion
##
## 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.
```

Plot 1

Complete the cell with the code to improve the plot. You may add labels and title, change the size of the labels, fill the bars with color...

```
ggplot(df_edu, aes(x=Topic)) + geom_bar()
```



Plot 2

Complete the cell with the code to improve the plot. You may add labels and title, change the size of the labels, change the number of bins...

```
ggplot(df_edu, aes(x=VisitedResources)) + geom_histogram()
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

