

# Lab 3: Data Wrangling on Soccer Tournament Data

2025/06/28

## Soccer tournament data wrangling

Read the dataset of football games.

```
d <- read_csv("data/results.csv")
```

```
## Rows: 39669 Columns: 9
## -- Column specification -----
## Delimiter: ","
## chr  (5): home_team, away_team, tournament, city, country
## dbl  (2): home_score, away_score
## lgl  (1): neutral
## date (1): date
##
## 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.
```

1. Select variables `date`, `home_team` and `away_team`.
2. Subset games with **Brazil** as the home team.
3. Choose the games that Brazil won as the home team, and select variables `date`, `away_team` and `tournament`.
4. Add the difference of goals, and an indicator variable called `goleada` for when the difference of goals is large, and select what we did only for Brazil. **Hint: use `ifelse`**.
5. What was the largest difference in goals within these games?
6. The top 5 `goleadas`?
7. Summary on goals scored by home teams, such as `mean` of `home_score` and `away_score`, `std`, using `group_by` and `summarise`
8. Proportion of victories of **Brazil** on different tournaments against each opponent, for instance, **Argentina**.