

# **Recitation Week 6**

# Top 10 movies of 2013

Which movie had the highest worldwide revenue in 2023?

- When we want to show rankings, we use bar charts
- Tip: order the data based on worldwide, than do the plot again
  - Be careful: before ordering freeze the first row!
  - How to order? Select the column you want to order based on; right click -> sort from A to Z (lowest to highest), or sort from Z to A (highest to lowest)

# Top 10 movies of 2013

Which movie had the highest **share of** worldwide revenue in 2023?

- When we want to show the shares, we use pie chart

# Top 10 movies of 2013

**Where does the most of the total revenue for each movie come from? From Foreign or Domestic?**

- When we want to share components( foreign or domestic ; they are the components of total revenue) we can use stacked bar chart
- Tip: which variables are we going to use?

# Weekly earnings of female and males: USA

How has the hourly wages changed over the years?

- Tip: When you have a time variable ; always think about time series ( line chart)
- Tip: we have repeated hourly wage values for each year; sum them to get one value for each year

# Weekly earnings of female and males: USA

How has the average hourly wages changed over the years for different jobs?

- Tip: Now we are interested with average values of hourly wages; we need to use pivot
- Tips:
  - what is my row; year
  - What is my column: job
  - What is my values: hourly wage

# Weekly earnings of female and males: USA

How has the average hourly wages changed over the years for males and females?

- Tip: Now we are interested with average values of hourly wages; we need to use pivot
- Tips:
  - what is my row; year
  - What is my column: gender
  - What is my values: hourly wage

# **Weekly earnings of female and males: USA**

**How is the distribution of hourly wage?**



# **Flower data set: iris**

**How many of each species do we have?**

# Flower data set: iris

**How many of each species do we have?**

- How does the relationship between petal length and sepal length look like?
- How does the average sepal length and petal length look like for different species?