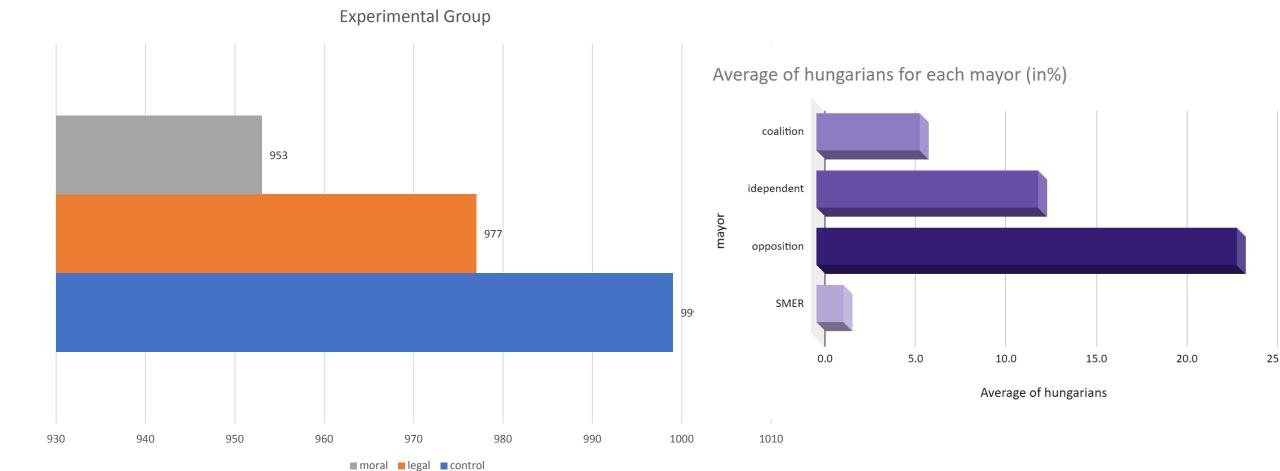
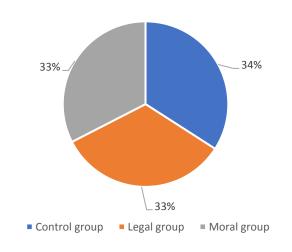
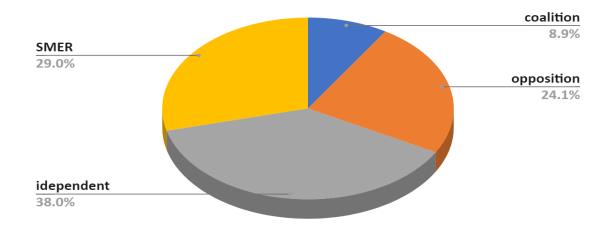
Visualization of relationship between variables

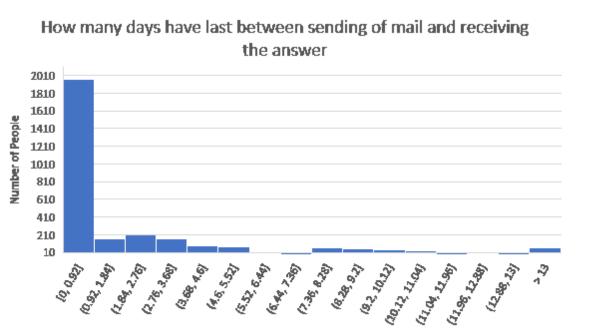


Distribution of experimental groups

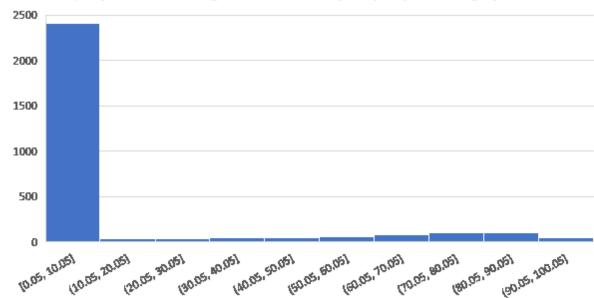


Distribution of Mayor's Political Affiliations

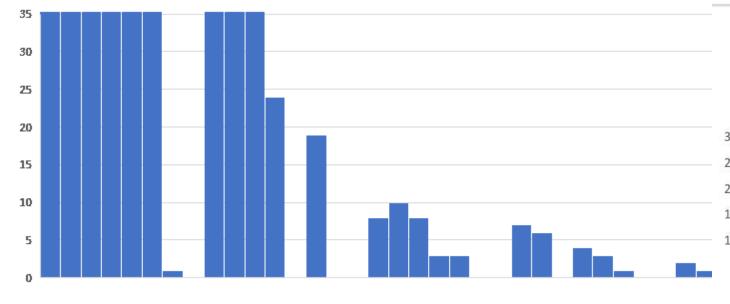




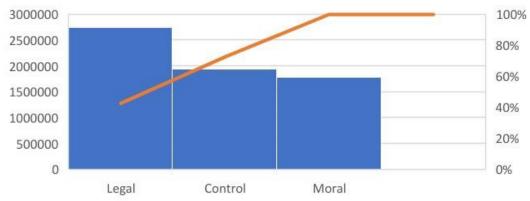




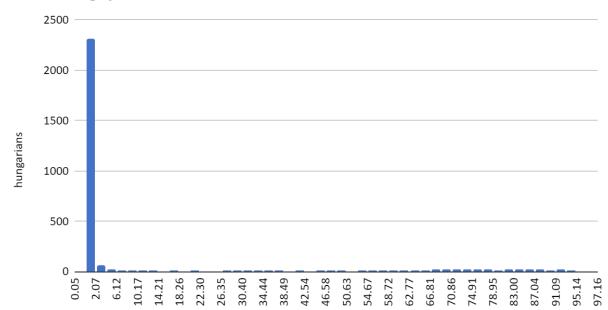
How many days have last between sending of mail and recieving the answer



HISTOGRAM SHOWING THE RELATIONSHIP BETWEEN THE EXPERIMENTAL GROUPS AND NUMBER OF INHABITANT OF MUNICIPALITY



Distribution of Proportion of Hungarians in Municipalities (% Percentage)



Two types of relationship

- Correlation two things are going together
- Causation one thing causes the second one
 - Only advanced methods can reveal causation

Correlation ≠ Causation

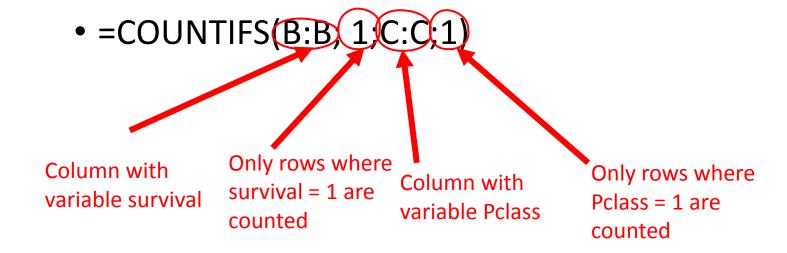
Combinations of variables

- Categorical x categorical stacked bar chart, series of pie charts
- Categorical x cardinal set of boxplots
- Cardinal x cardinal scatterplot

How to recognize relationship

- Categorical x categorical charts are different for each category
- Categorical x cardinal charts are different for each category
- Cardinal x cardinal there is some pattern in scatterplot

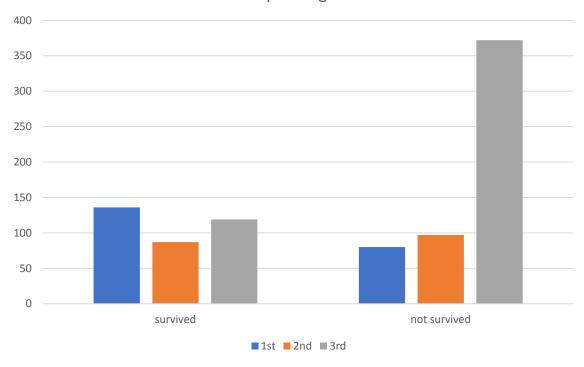
=countif



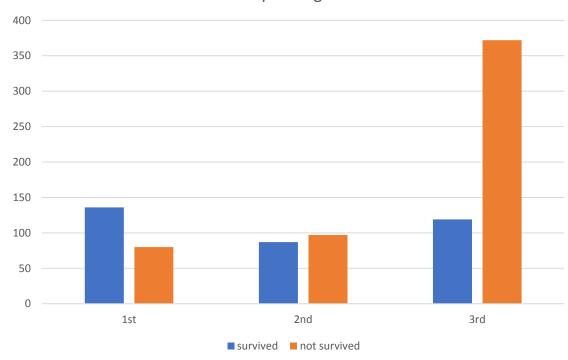
- Same logic for sumif, averageif, etc
- One conditionIF
- More condition ...IFS

Bar chart

Survival in different passanger classes on Titanic

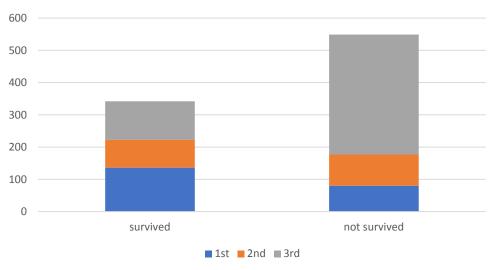


Survival in different passanger classes on Titanic

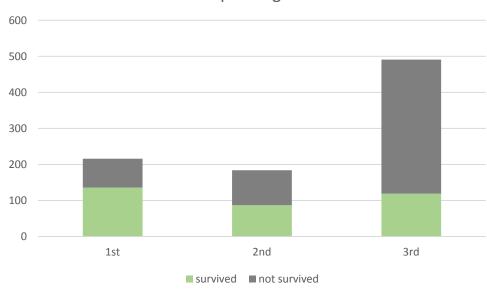


Stacked bar chart

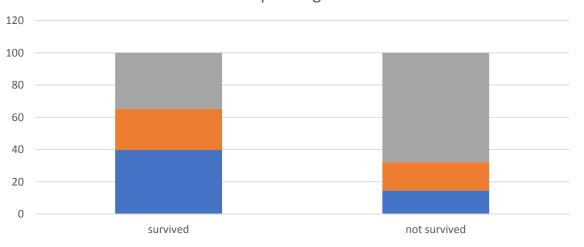
Survival in different passanger classes on Titanic



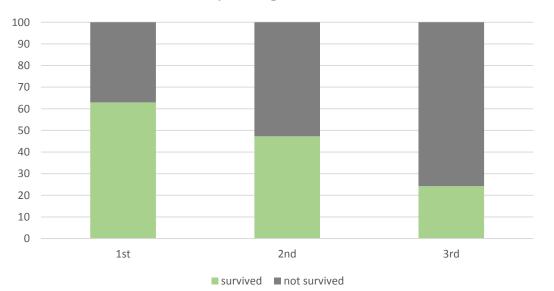
Survival in different passanger classes on Titanic



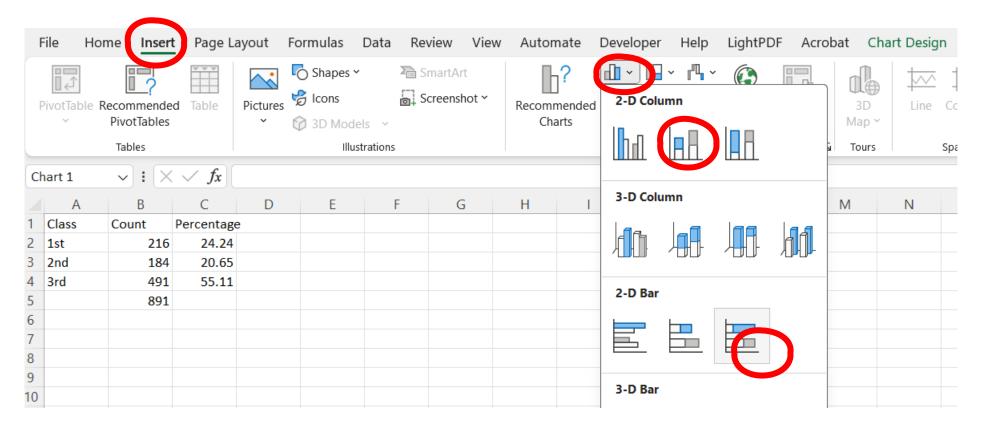
Survival in different passanger classes on Titanic



Survival in different passanger classes on Titanic



Stacked bar plot



Set of boxplots

