

Team Name : Super Mario  
Project Title : Visual History of Nobel Prize  
Winners

Member 1 : Youhanna Adel == 37-14779

Member 2 : Nader Waguih == 37-6772

Member 3 : Bishoy Raafat == 37-15522

Member 4 : Danial Malak == 37-2220

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CSEN1095 : DATA ENGINEERING



# Work Distribution:

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## 1) Data Cleaning:

- Bishoy Raafat
- Nader Waguih

- Removing Null Values
- Removing False Data

# Null Values Count

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Year	0
Category	0
Prize	0
Motivation	88
Prize Share	0
Laureate ID	0
Laureate Type	0
Full Name	0
Birth Date	29
Birth City	28
Birth Country	26
Sex	26
Organization Name	247
Organization City	253
Organization Country	253
Death Date	352
Death City	370
Death Country	364
dtype:	int64

# Approach To Remove The Null Values

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```
for i in range (df.shape[0]):
    year = df.at[i,'Year']
    laureate = df.at[i, 'Laureate Type']
    if(laureate == "Organization"):
        if(pd.isnull(df.at[i,'Birth Date'])):
            df.at[i,'Birth Date'] = "Started Before " + str(year)
        if(pd.isnull(df.at[i,'Birth City'])):
            df.at[i,'Birth City'] = "Organization/No Birth City"
        if(pd.isnull(df.at[i,'Birth Country'])):
            df.at[i,'Birth Country'] = "Organization/No Birth Country"
    if(laureate == "Individual"):
        if(pd.isnull(df.at[i,'Birth Date'])):
            df.at[i,'Birth Date'] = "Born Before " + str(year)
        if(pd.isnull(df.at[i,'Birth City'])):
            df.at[i,'Birth City'] = "Not Available"
        if(pd.isnull(df.at[i,'Birth Country'])):
            df.at[i,'Birth Country'] = "Not Available"
```

# Work Distribution:

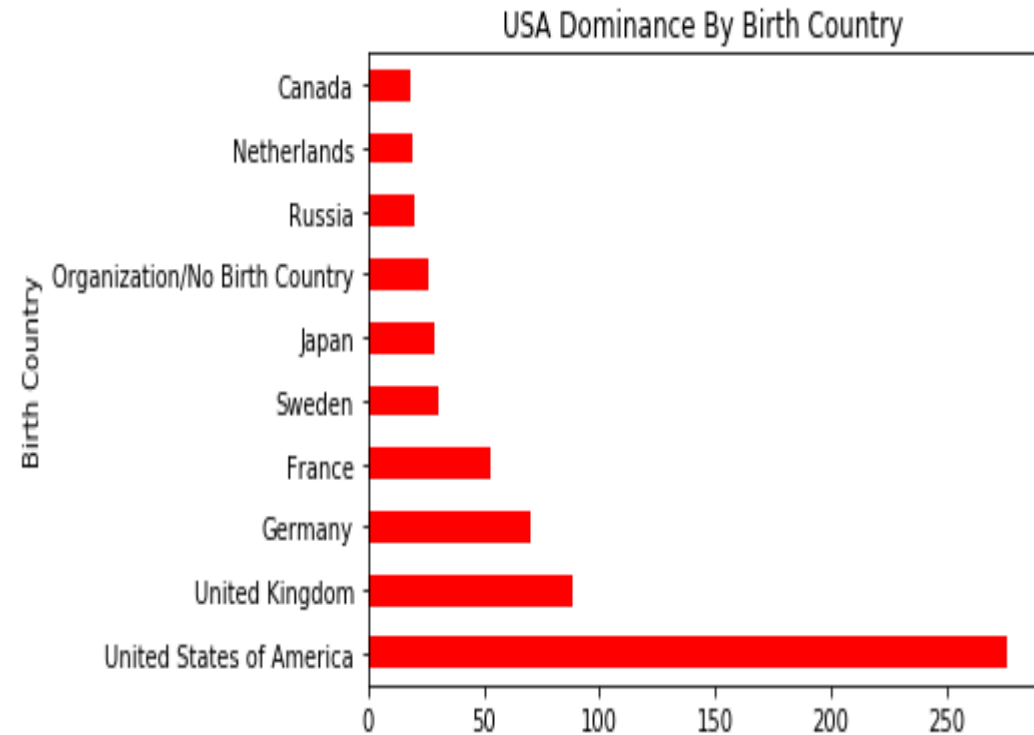
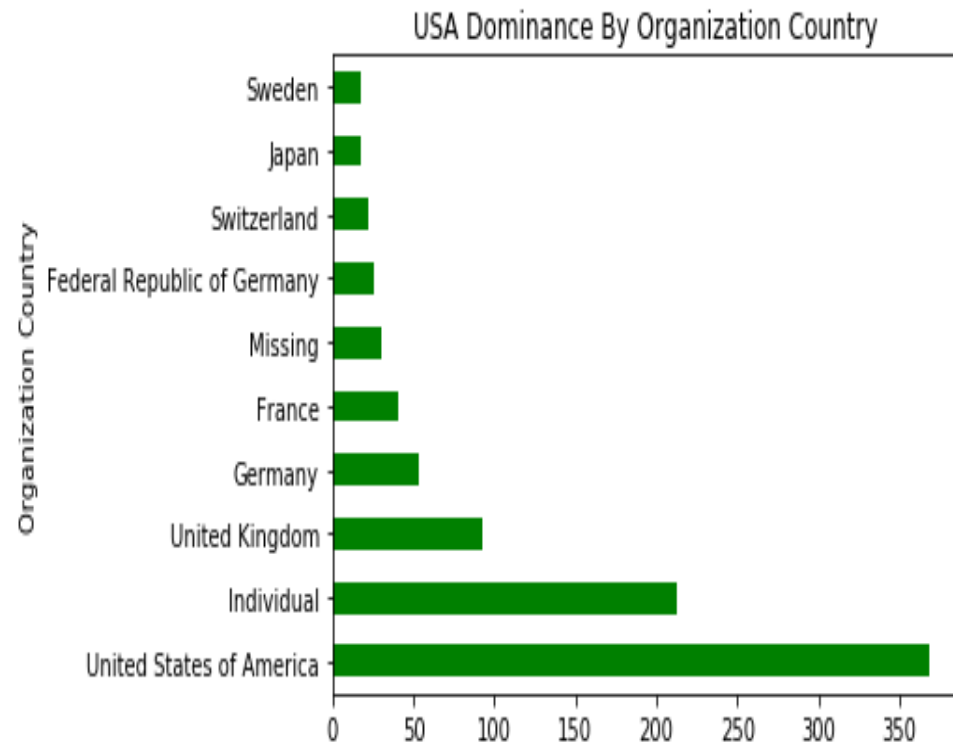
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## 2) Questions & Visualizations:

- Youhanna Adel
- Danial Malak

- What does the dataset tell us ?
- What are the most important visualizations ?

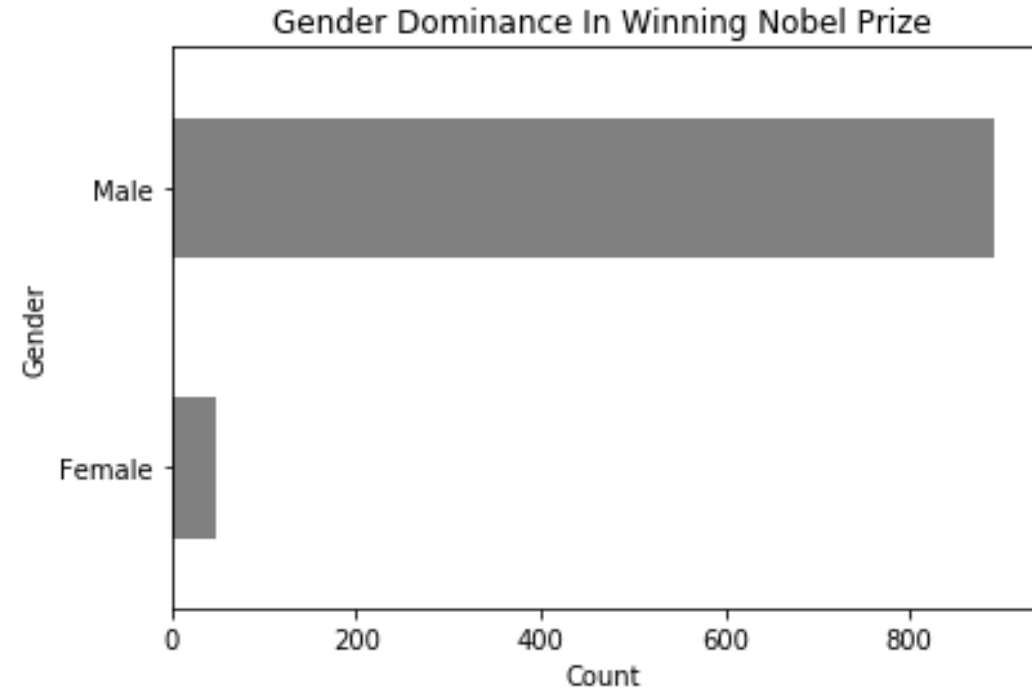
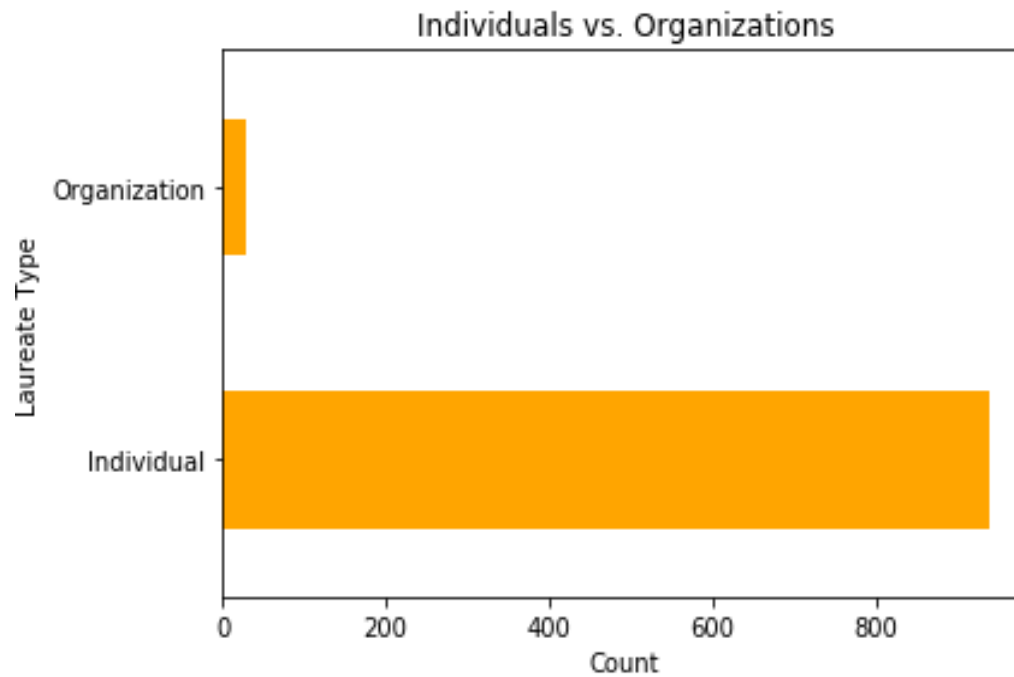
# USA Dominance



# Male Vs. Female

## Individuals Vs. Organizations

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# Average age for winning a Nobel Prize ? Youngest And Oldest Winners ?

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The Average Age For Winning A Nobel Prize Is : 59 Years Old

Oldest Winner Is : Leonid Hurwicz With Age : 90

Youngest Winner Is : Malala Yousafzai With Age : 17



# Thank You

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