Cancer Cases

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Introduction

Our Goals:

- *Learning how to code using python*
- *Learning about functions*
- *Simplifying data sets*
- *Plotting data*
- *Interpreting cancer case datas*

Evidence & Observations

What we chose to plot:

- *Cancer case types*

Why we chose this:

- *To understand how common certain cancer types*
- *To put into perspective the amount of cancer cases per year*

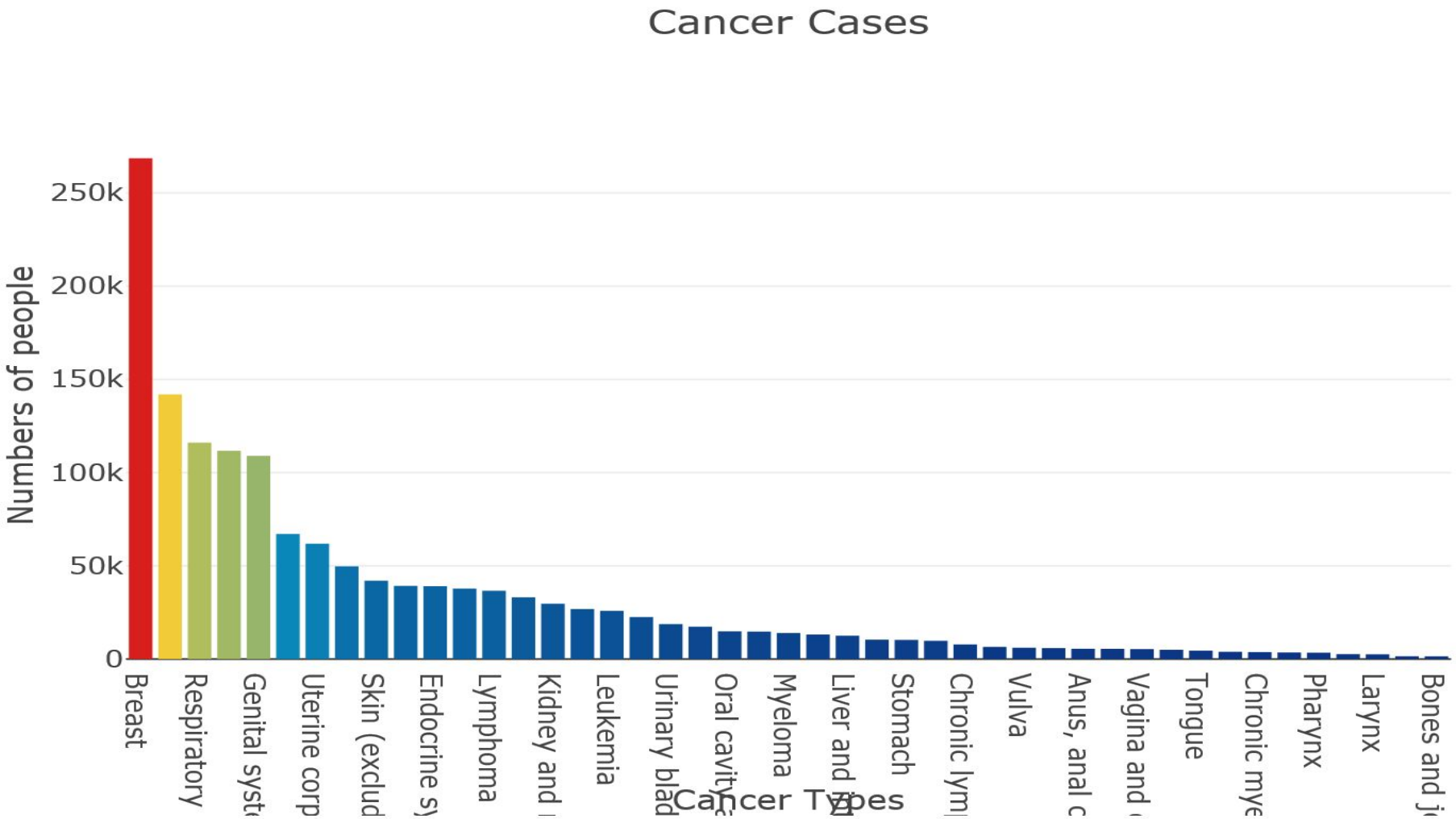
Methodology

- *We use spyder to code and used the program python to make the codes*
- *Use the libraries pandas and plotly to create the bar graph.*
- *Pandas allow you to list the variables and read the data*
- *Plotly allows you to plot things*

```
cancer = go.Bar(x = df["CancerType"], y = df["Number"],
                marker = {"color": df["Number"], "colorscale" : "Portland"}



                )
plot ([cancer])
titles = go.Layout(
                #Define title of the graph
                title ="Cancer Cases" ,
                xaxis=go.layout.XAxis(
                title=go.layout.xaxis.Title(
                text="Cancer Types",
                )
                yaxis=go.layout.YAxis(
                                title=go.layout.yaxis.Title(
                                text="Numbers of people" ,
                                )
```


Cancer Cases
Numbers of people
250k
200k
150k
100k
50k
0
Breast
Respiratory
Genital syste
Uterine corp
Skin (exclud
Endocrine sy
Lymphoma
Kidney and
Leukemia
Urinary blad
Oral cavity
Myeloma
Liver and
Stomach
Chronic lym
Vulva
Anus, anal c
Vagina and
Tongue
Chronic mye
Pharynx
Larynx
Bones and j
Cancer Types

Inferences & Conclusions

What we have observed:

- *The most common type of cancer is Breast Cancer and the least common is Bones and Joints.*

Interpretations:

- *We can assume that women are predominantly affected by breast cancer compared to men, so this shows that a high percentage of women are affected by cancer.*
- *Therefore we need to cure cancer*

Questions?