



Rosados Tigers



HPC in the (Virtual) City SC20

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Rosadas Tigers



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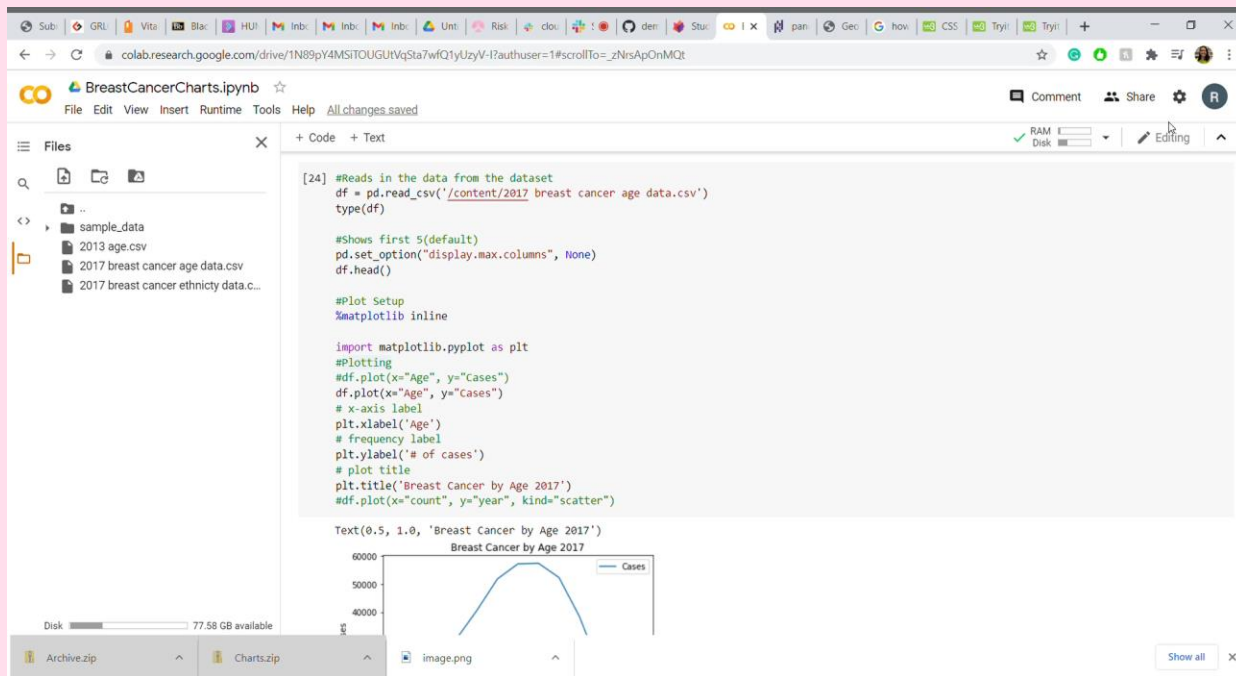


Contributions to ATL

Cancer is the leading cause of death in Georgia. According to Georgia Department of Public Health and the Georgia Center for Cancer Statistics, breast cancer is the leading cause of cancer incidence in women citizens residing in Georgia. Through prediction modelling, women can understand how risk factors play a part in prevention. Knowing these risks brings awareness and awareness brings about prevention



HPC Technology: Colob



The screenshot shows a Google Colab notebook titled "BreastCancerCharts.ipynb". The code in the cell reads:

```
[24] #Reads in the data from the dataset
df = pd.read_csv('/content/2017 breast cancer age data.csv')
type(df)

#Shows first 5 (default)
pd.set_option("display.max.columns", None)
df.head()

#Plot Setup
%matplotlib inline

import matplotlib.pyplot as plt
#Plotting
df.plot(x="Age", y="Cases")
df.plot(x="Age", y="Cases")
# x-axis label
plt.xlabel('Age')
# frequency label
plt.ylabel('# of cases')
# plot title
plt.title('Breast Cancer by Age 2017')
df.plot(x="count", y="year", kind="scatter")

Text(0.5, 1.0, 'Breast Cancer by Age 2017')
```

Below the code, a line plot titled "Breast Cancer by Age 2017" is displayed. The y-axis represents the number of cases, ranging from 0 to 60,000. The x-axis represents age. The plot shows a single blue line representing "Cases", which rises to a peak of approximately 58,000 cases around age 55 and then declines.



Sources... Thank you!!!

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bcsc-research.org

Breast Cancer Surveillance Consortium (BCSC)

Breast Cancer Surveillance Consortium (BCSC) Homepage. Learn more about the BCSC's work, investigators, and data.

Georgia Department of Public Health

Georgia Center for Cancer Statistics



XSEDE

Extreme Science and Engineering
Discovery Environment

TACC

sighpc



cloudycluster



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- Caleb Anderson
- Hector and
- Quaranteam



THANK YOU!

GitHub Link

<https://github.com/demetriusnich/Breast-Cancer-Prediction>