ReadMeViz

# File structure

Project is structured to have code and data folder, code folder will hold all the scripts and the data folder will hold all the data required for our project which is under Final\_project. Complete code can be downloaded from github location : “<https://github.com/Narendrakumarg1728/Data_analysis_and_visualization/tree/master/Final_project>”

# How to execute the script?

Once you download the code from the github, execute the script “virtualize.py” using the command “python virtualize.py” which will create the html file “Cancer\_survival.html” and then the html file will be loaded in the browser automatically.

# Adding Visualization story to HTML

We will get the graph plots when we run the script but to add the details to describe the story. Please add the below <**div**> tags to the generated HTML. And reload the page in the browser.

<div class="container" style="text-align:center";>

<div class="page-header">

<h1><font size="7">Is Cancer Deadly?</font></h1>

</div>

<p><font size="5">Estimated cancer deaths in USA alone is around 600,000 and 1.5 Million new cases were diagnosed in 2016. When a person is diagnosed with cancer the first question that occurs to them is “why me?” then <b>“am I going to die?”</b> and <b>“how long do I have?”</b> <br><br>

So, does every cancer cause death? Does the mortality rate differ based on gender? Is there a difference in mortality between developed and other under developed countries? </font><br></p>

</div>

<div>

<p><b><font size="6">Can we do something?</font></b></p>

<p><font size="5">From the second graph "5 Year Survival Rate at different stages" we can clearly see that the <b>survival rate drastically decreases if the cancer is detected in later stages for Colorectum cancer in men and Breast cancer in women.</b> <br><br>

So it is recommended for women to perform regular <b>"self examination"</b> of the breast and if there is any changes in the look and feel, it is recommended to perform screening tests like <b>mammogram</b>. Also "American cancer society" recommends the below periodicity of screening for women.<br>

Women between 40 and 44 have the option to start screening with a mammogram every year. Women 45 to 54 should get mammograms every year. Women 55 and older can switch to a mammogram every other year, or they can choose to continue yearly mammograms.<br><br>

Similarly "American Cancer Society" recommends to perform regular <b>"Colorectal Cancer Screening Tests"</b> which will help to find the cancer in early stages.<br><br>

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<p><b><font size ="6"> Cancer mortality rate difference between developed and under developed nations</font></b></p>

<p><font size="5"> We can also observe from the graph "Breast Cancer Mortality and New Cases", there is huge mortality rate difference between developed and under developed nations. <br></p>

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<p style="color:grey;"><font size="3"> Created by: Narendra Kumar Govinda Raju in collaboration with Suresh K Lodha.</font></p>

<p style = "color:grey;"><font size="3">Github link: <a href="https://github.com/Narendrakumarg1728/Data\_analysis\_and\_visualization/tree/master/Final\_project">Click her for code</a> </font></p>

<p style = "color:grey;"><font size="3">Data Source 1: <a href="https://www.cancer.org/cancer/breast-cancer/understanding-a-breast-cancer-diagnosis/breast-cancer-survival-rates.html">American Cancer society</a> </font></p>

<p style = "color:grey;"><font size="3">Data Source 2: <a href="http://www.who.int/healthinfo/statistics/mortality\_rawdata/en/">WHO mortality data</a> </font></p>

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<p style = "color:grey;"><font size="3">DataW: <a href="https://github.com/Narendrakumarg1728/Data\_analysis\_and\_visualization/blob/master/Final\_project/DataW.docx">DataW</a> </font></p>

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