Racing Bar Plot Documentation

Step 1 - Installing **bar-chart-race** module. You can do it inside Jupyter Notebook as shown below:

```
In [2]: !pip install bar-chart-race
```

```
Collecting bar-chart-race
  Downloading bar_chart_race-0.1.0-py3-none-any.whl (156 kB)
     ---------------------------------------- 156.8/156.8 kB 9.8 MB/s eta 0:00:00
Requirement already satisfied: matplotlib>=3.1 in c:\users\kanav\anaconda3\lib\site-packages (from bar-chart-race) (3.5.2)
Requirement already satisfied: pandas>=0.24 in c:\users\kanav\anaconda3\lib\site-packages (from bar-chart-race) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-char
t-race) (21.3)
Requirement already satisfied: python-dateutil>=2.7 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar
-chart-race) (2.8.2)
Requirement already satisfied: pillow>=6.2.0 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-chart-
race) (9.2.0)
Requirement already satisfied: kiwisolver>=1.0.1 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-ch
art-race) (1.4.2)
Requirement already satisfied: pyparsing>=2.2.1 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-cha
rt-race) (3.0.9)
Requirement already satisfied: cycler>=0.10 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-chart-r
ace) (0.11.0)
Requirement already satisfied: numpy>=1.17 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-chart-ra
ce) (1.21.5)
Requirement already satisfied: fonttools>=4.22.0 in c:\users\kanav\anaconda3\lib\site-packages (from matplotlib>=3.1->bar-ch
art-race) (4.25.0)
Requirement already satisfied: pytz>=2020.1 in c:\users\kanav\anaconda3\lib\site-packages (from pandas>=0.24->bar-chart-rac
e) (2022.1)
Requirement already satisfied: six>=1.5 in c:\users\kanav\anaconda3\lib\site-packages (from python-dateutil>=2.7->matplotlib
>=3.1->bar-chart-race) (1.16.0)
Installing collected packages: bar-chart-race
Successfully installed bar-chart-race-0.1.0
```

Step 2 - Import required library - **bar_chart_race**

```
In [5]: import bar_chart_race as bcr
```

Step 3 - Call **bar_chart_race** function with following parameters.

```
bcr.bar_chart_race(
    # must be a DataFrame where each row represents a single period of
time.
    df=final,

    # name of the output video file
    filename="final.mp4",

    # specify location of image folder
    #img_label_folder="bar_image_labels",

    # change the Figure properties
    fig_kwargs={
        'figsize': (26, 15),
        'dpi': 120,
        'facecolor': '#F8FAFF'
    },

    # orientation of the bar: h or v
    orientation="h",

    # sort the bar for each period
    sort="desc",

    # number of bars to display in each frame
    n_bars=10,

    # to fix the maximum value of the axis
    # fixed_max=True,

    # smoothness of the animation
    steps_per_period=45,

    # time period in ms for each row
    period_length=3000,

    # custom set of colors
```

```
    colors=[
        '#6ECBCE', '#FF2243', '#FFC33D', '#CE9673', '#FFA0FF', '#6501E5',
'#F79522', '#699AF8', '#34718E', '#00DBCD',
        '#00A3FF', '#F8A737', '#56BD5B', '#D40CE5', '#6936F9', '#FF317B',
'#0000F3', '#FFA0A0', '#31FF83', '#0556F3'
    ],
    # title and its styles
    title={'label': 'Year wise sales of each Makers from last decade',
           'size': 52,
           'weight': 'bold',
           'pad': 40
           },

    # adjust the position and style of the period label
    period_label={'x': .95, 'y': .15,
                  'ha': 'right',
                  'va': 'center',
                  'size': 72,
                  'weight': 'semibold'
                  },

    # style the bar label text
    bar_label_font={'size': 27},

    # style the labels in x and y axis
    tick_label_font={'size': 27},

    # adjust the style of bar
    # alpha is opacity of bar
    # ls - width of edge
    bar_kwargs={'alpha': .99, 'lw': 0},

    # adjust the bar label format
    bar_texttemplate='{x:.2f}',

    # adjust the period label format
    period_template='{x:.0f}',
)
```