

bar plot KNBS data

January 17, 2023

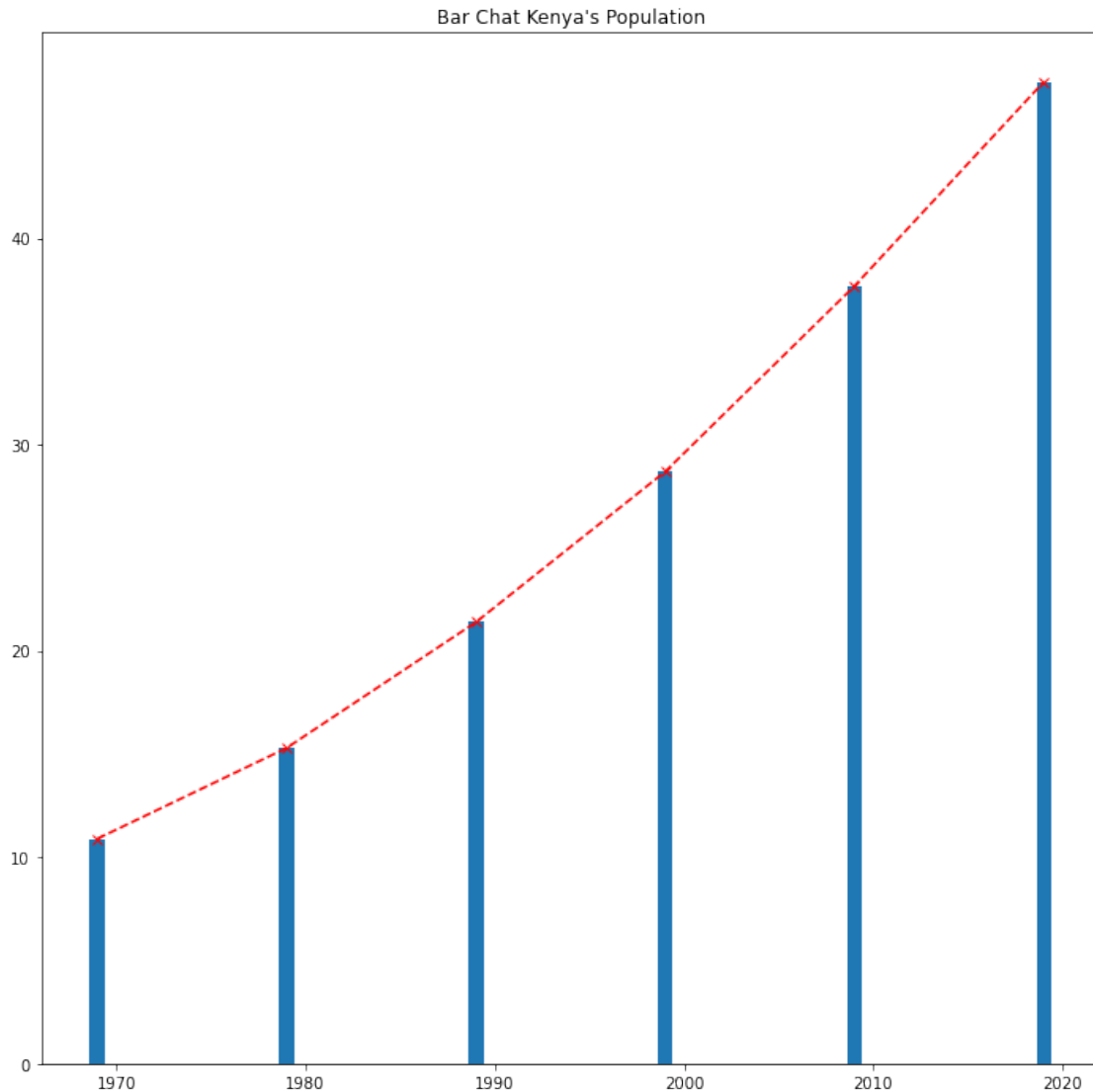
```
[3]: print("Hello Sir/Madam.", "    "  
        "Hope you are doing well.")
```

Hello Sir/Madam. Hope you are doing well.

```
[4]: import seaborn as sns  
import matplotlib.pyplot as plt  
%matplotlib inline
```

```
[14]: year=[1969,1979,1989,1999,2009,2019]  
population=[10.9,15.3,21.4,28.7,37.7,47.6]  
plt.figure(figsize=[12,12])  
  
plt.figure(figsize=[12,12])  
plt.title("Bar Chat Kenya's Population")  
plt.bar(year,population)  
plt.plot(year,population, "x--r");
```

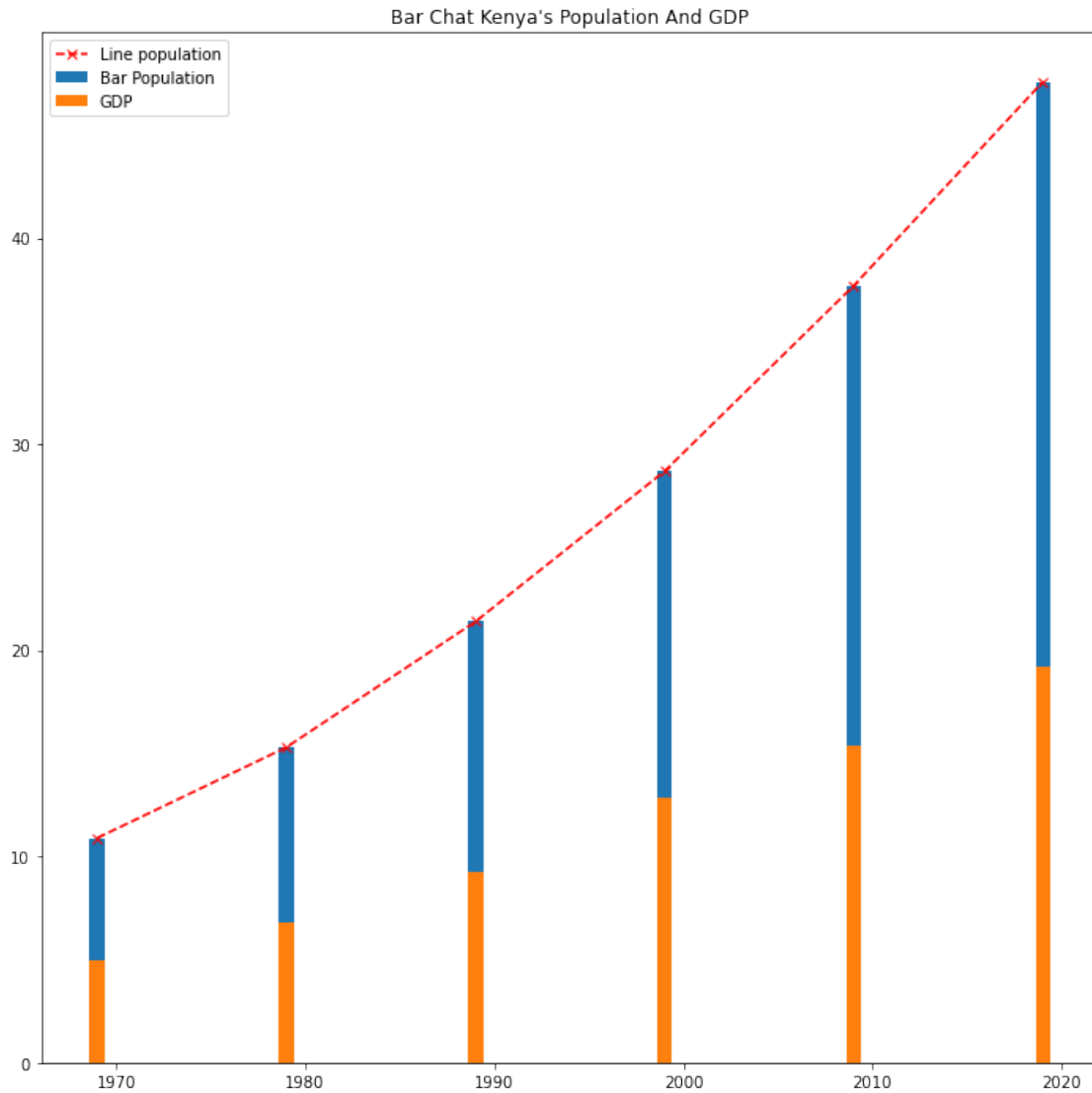
<Figure size 864x864 with 0 Axes>



```
[26]: year=[1969,1979,1989,1999,2009,2019]
population=[10.9,15.3,21.4,28.7,37.7,47.6]
GDP_Kenya=[4.95,6.82,9.26,12.89,15.38,19.22]
plt.figure(figsize=[12,12])

plt.figure(figsize=[12,12])
plt.title("Bar Chat Kenya's Population And GDP")
plt.bar(year,population)
plt.plot(year,population, "x--r")
plt.bar(year,GDP_Kenya,)
plt.legend(["Line population","Bar Population","GDP"]);
```

<Figure size 864x864 with 0 Axes>



```
[52]: total=[1208333,866820,1453787,315943,143920,340671,841353,781263,867457,459785,268002,1545714,
print(female)
female=[598046, 441681, 749673, 157391, 67813, 167327, 382344, 365840, 432444,
↪216219, 128483, 777975, 199406, 304367, 587151, 711191, 497942, 323247,
↪384845, 308369, 532669, 1230454, 448868, 314213, 153546, 501206, 582889,
↪227151, 444430, 330428, 259102, 1084835, 578805, 560704, 451008, 441379,
↪970406, 306323, 858389, 467401, 521496, 594609, 592367, 580214, 661038,
↪314656, 2204376]
intersex=[30, 18, 25, 2, 4, 7, 34, 49, 37, 18, 9, 41, 7, 24, 33, 34, 20, 20,
↪31, 31, 31, 135, 21, 15, 7, 28, 28, 12, 22, 13, 18, 95, 26, 38, 28, 23, 40,
↪12, 35, 28, 18, 23, 23, 35, 38, 13, 245]
```

```

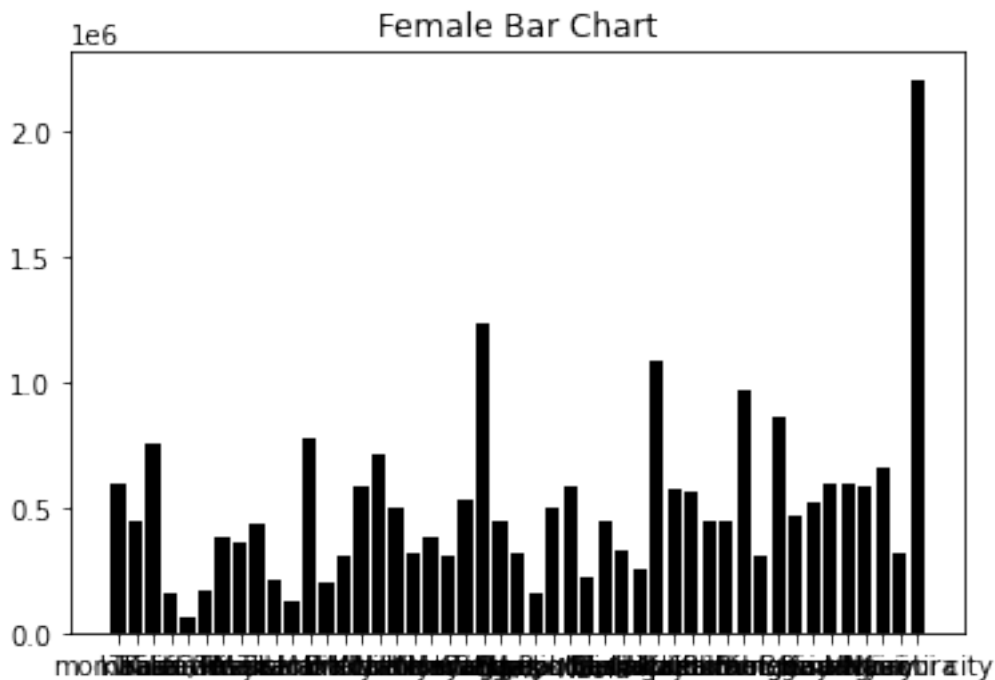
male=[610257, 425121, 704089, 158550, 76103, 173337, 458975, 415374, 434976,
↪243548, 139510, 767698, 193764, 304208, 549003, 710707, 489691, 315022,
↪374228, 302011, 523940, 1187146, 478087, 307013, 156774, 489107, 580269,
↪227317, 441259, 336322, 259440, 1077272, 579042, 557098, 450741, 434287,
↪987133, 283678, 812146, 426252, 471669, 560942, 539560, 536187, 605784,
↪290907, 2192452]
county=['mombasa', 'kwale', 'Kilifi', 'Tanariver', 'Lamu', 'Taita/Taveta',
↪'Garissa', 'Wajir', 'Mandera', 'Marsarbit', 'Isiolo', 'Meru', 'Tharaka',
↪Nithi', 'Embu', 'Kitui', 'Machakos', 'Makueni', 'Nyandarua', 'Nyeri',
↪'Kirinyaga', 'Muranga', 'Kiambu', 'Turkana', 'West Pokot', 'Samburu',
↪'Trans_Nzoia', 'Uasin Gishu', 'Elgeyo Marakwet', 'Nandi', 'Baringo',
↪'Laikipia', 'Nakuru', 'Narok', 'Kajiado', 'Kericho', 'Bomet', 'Kakamega',
↪'Vihiga', 'Bungoma', 'Busia', 'Siaya', 'Kisumu', 'Homa bay', 'Migori',
↪'Kisii', 'Nyamira', 'Nairobi city']
plt.bar(county,female,color="black")
plt.title("Female Bar Chart");

```

```

[598046, 441681, 749673, 157391, 67813, 167327, 382344, 365840, 432444, 216219,
128483, 777975, 199406, 304367, 587151, 711191, 497942, 323247, 384845, 308369,
532669, 1230454, 448868, 314213, 153546, 501206, 582889, 227151, 444430, 330428,
259102, 1084835, 578805, 560704, 451008, 441379, 970406, 306323, 858389, 467401,
521496, 594609, 592367, 580214, 661038, 314656, 2204376]

```



[]:

```
[35]: intersex=[30, 18, 25, 2, 4, 7, 34, 49, 37, 18, 9, 41, 7, 24, 33, 34, 20, 20,
↪31, 31, 31, 135, 21, 15, 7, 28, 28, 12, 22, 13, 18, 95, 26, 38, 28, 23, 40,
↪12, 35, 28, 18, 23, 23, 35, 38, 13, 245]
print(intersex)
```

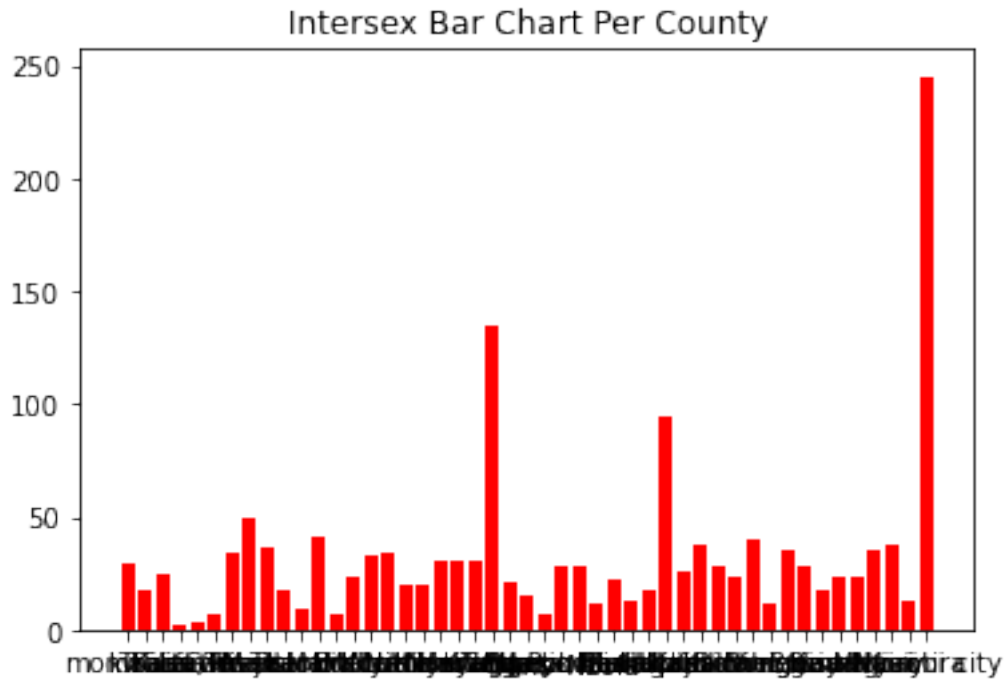
```
[30, 18, 25, 2, 4, 7, 34, 49, 37, 18, 9, 41, 7, 24, 33, 34, 20, 20, 31, 31, 31,
135, 21, 15, 7, 28, 28, 12, 22, 13, 18, 95, 26, 38, 28, 23, 40, 12, 35, 28, 18,
23, 23, 35, 38, 13, 245]
```

```
[33]: county=['mombasa', 'kwale', 'Kilifi', 'Tanariver', 'Lamu', 'Taita/Taveta',
↪'Garissa', 'Wajir', 'Mandera', 'Marsarbit', 'Isiolo', 'Meru', 'Tharaka
↪Nithi', 'Embu', 'Kitui', 'Machakos', 'Makueni', 'Nyandarua', 'Nyeri',
↪'Kirinyaga', 'Muranga', 'Kiambu', 'Turkana', 'West Pokot', 'Samburu',
↪'Trans_Nzoia', 'Uasin Gishu', 'Elgeyo Marakwet', 'Nandi', 'Baringo',
↪'Laikipia', 'Nakuru', 'Narok', 'Kajiado', 'Kericho', 'Bomet', 'Kakamega',
↪'Vihiga', 'Bungoma', 'Busia', 'Siaya', 'Kisumu', 'Homa bay', 'Migori',
↪'Kisii', 'Nyamira', 'Nairobi city']
print(county)
```

```
['mombasa', 'kwale', 'Kilifi', 'Tanariver', 'Lamu', 'Taita/Taveta', 'Garissa',
'Wajir', 'Mandera', 'Marsarbit', 'Isiolo', 'Meru', 'Tharaka Nithi', 'Embu',
'Kitui', 'Machakos', 'Makueni', 'Nyandarua', 'Nyeri', 'Kirinyaga', 'Muranga',
'Kiambu', 'Turkana', 'West Pokot', 'Samburu', 'Trans_Nzoia', 'Uasin Gishu',
'Elgeyo Marakwet', 'Nandi', 'Baringo', 'Laikipia', 'Nakuru', 'Narok', 'Kajiado',
'Kericho', 'Bomet', 'Kakamega', 'Vihiga', 'Bungoma', 'Busia', 'Siaya', 'Kisumu',
'Homa bay', 'Migori', 'Kisii', 'Nyamira', 'Nairobi city']
```

```
[43]: plt.bar(county,intersex,color="red")
plt.title("Intersex Bar Chart Per County")
```

```
[43]: Text(0.5, 1.0, 'Intersex Bar Chart Per County')
```



```
[39]: male=[610257, 425121, 704089, 158550, 76103, 173337, 458975, 415374, 434976,
↳ 243548, 139510, 767698, 193764, 304208, 549003, 710707, 489691, 315022,
↳ 374228, 302011, 523940, 1187146, 478087, 307013, 156774, 489107, 580269,
↳ 227317, 441259, 336322, 259440, 1077272, 579042, 557098, 450741, 434287,
↳ 987133, 283678, 812146, 426252, 471669, 560942, 539560, 536187, 605784,
↳ 290907, 2192452]
print(male)
```

[610257, 425121, 704089, 158550, 76103, 173337, 458975, 415374, 434976, 243548, 139510, 767698, 193764, 304208, 549003, 710707, 489691, 315022, 374228, 302011, 523940, 1187146, 478087, 307013, 156774, 489107, 580269, 227317, 441259, 336322, 259440, 1077272, 579042, 557098, 450741, 434287, 987133, 283678, 812146, 426252, 471669, 560942, 539560, 536187, 605784, 290907, 2192452]

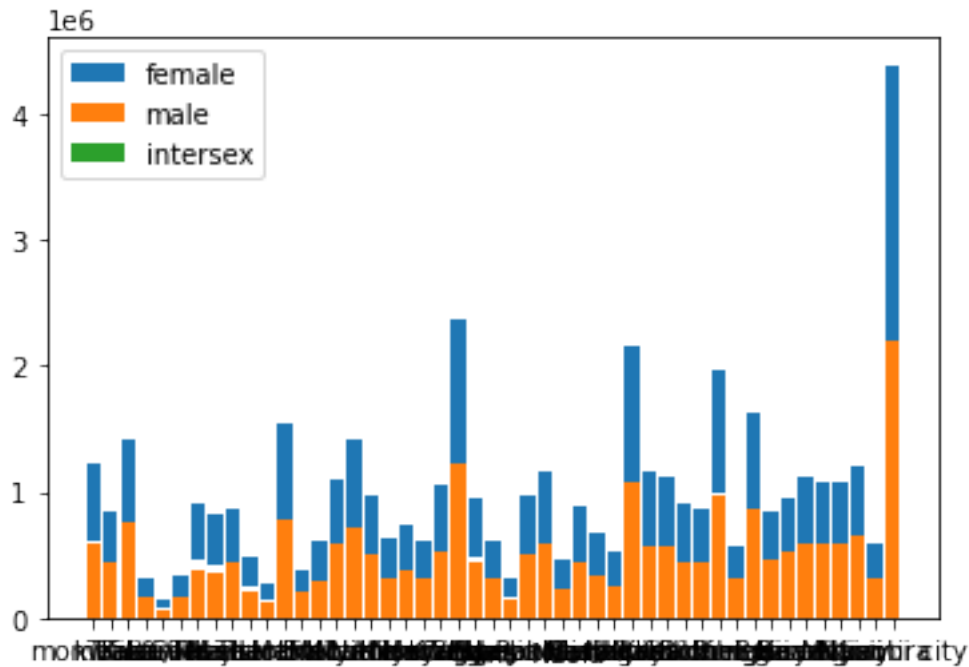
```
[41]: female=[598046, 441681, 749673, 157391, 67813, 167327, 382344, 365840, 432444,
↪216219, 128483, 777975, 199406, 304367, 587151, 711191, 497942, 323247,
↪384845, 308369, 532669, 1230454, 448868, 314213, 153546, 501206, 582889,
↪227151, 444430, 330428, 259102, 1084835, 578805, 560704, 451008, 441379,
↪970406, 306323, 858389, 467401, 521496, 594609, 592367, 580214, 661038,
↪314656, 2204376]
print(female)
```

[598046, 441681, 749673, 157391, 67813, 167327, 382344, 365840, 432444, 216219, 128483, 777975, 199406, 304367, 587151, 711191, 497942, 323247, 384845, 308369, 532669, 1230454, 448868, 314213, 153546, 501206, 582889, 227151, 444430, 330428,

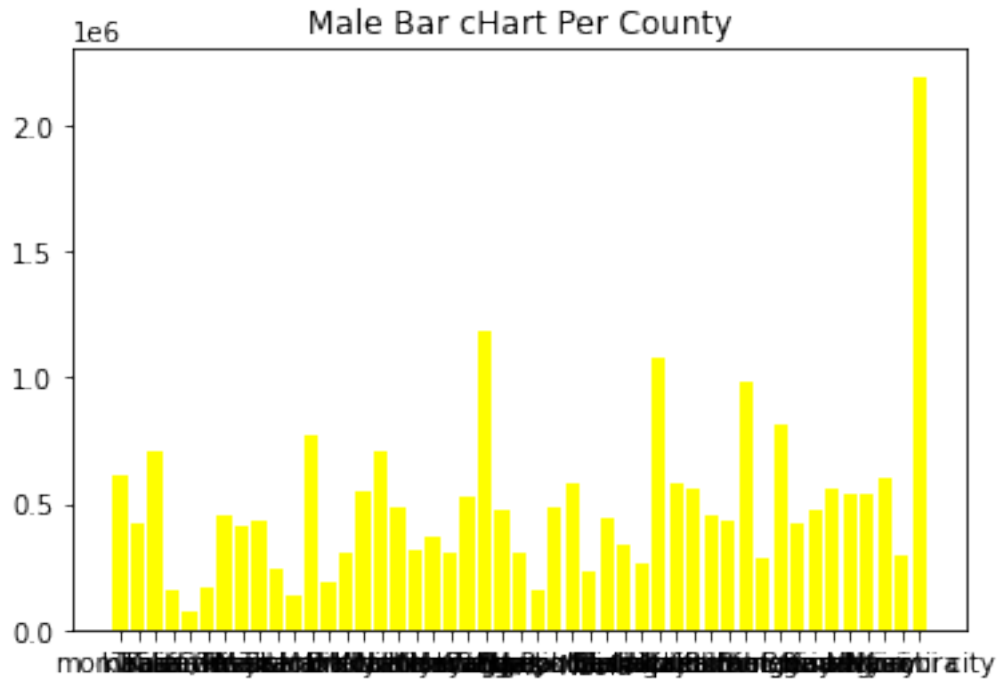
```
259102, 1084835, 578805, 560704, 451008, 441379, 970406, 306323, 858389, 467401,  
521496, 594609, 592367, 580214, 661038, 314656, 2204376]
```

```
[50]: plt.bar(county,male,bottom=male)  
plt.bar(county,female)  
plt.bar(county,intersex)  
plt.legend(["female","male","intersex"])
```

```
[50]: <matplotlib.legend.Legend at 0x7f693f181e20>
```



```
[45]: plt.bar(county,male, color="Yellow")  
plt.title("Male Bar Chart Per County");
```



```
[55]: re=sns.load_dataset("tips")
      print(re)
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
..
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

[244 rows x 7 columns]

```
[ ]: sns.barplot("day","total_bill",data=re);#group by and mean day i x and total_
      ↳bill is y
```

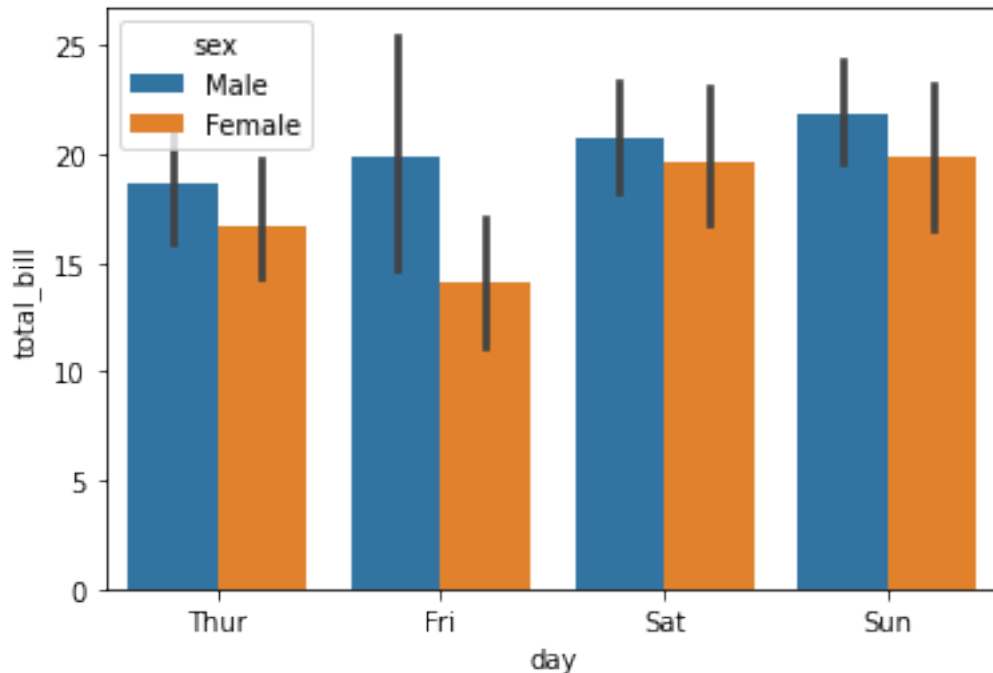
```
[58]: sns.barplot("day","total_bill",hue="sex",data=re) # hue is the criteria for_
      ↳separation or plot
```

/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning:

Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

```
warnings.warn(
```

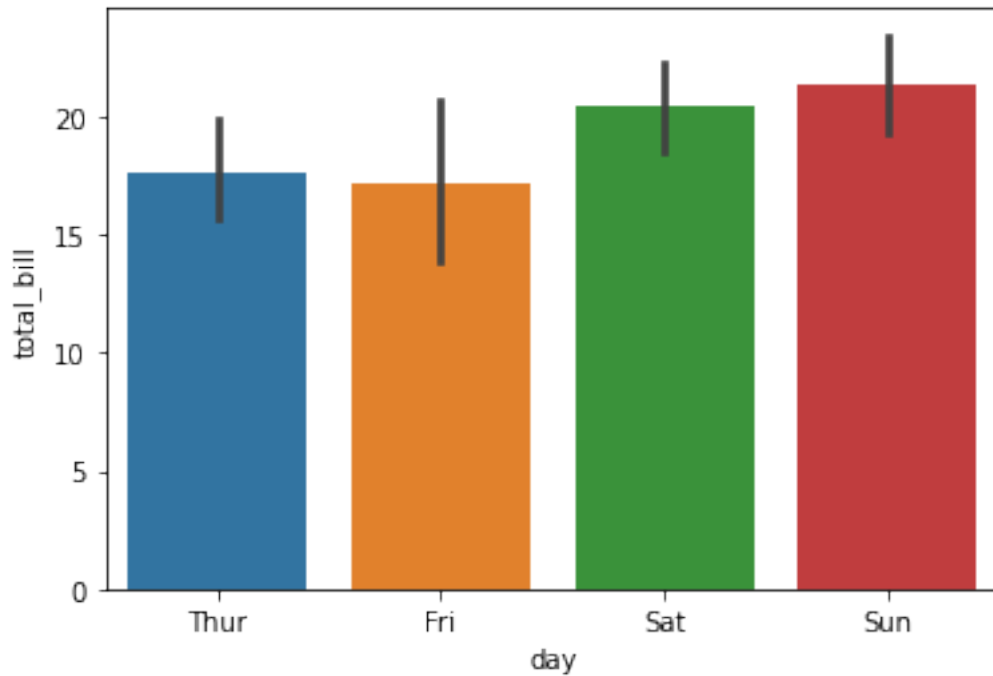
```
[58]: <AxesSubplot:xlabel='day', ylabel='total_bill'>
```



```
[59]: sns.barplot("day", "total_bill", data=re); #group by and mean day i x and total_
      ↪ bill is y
```

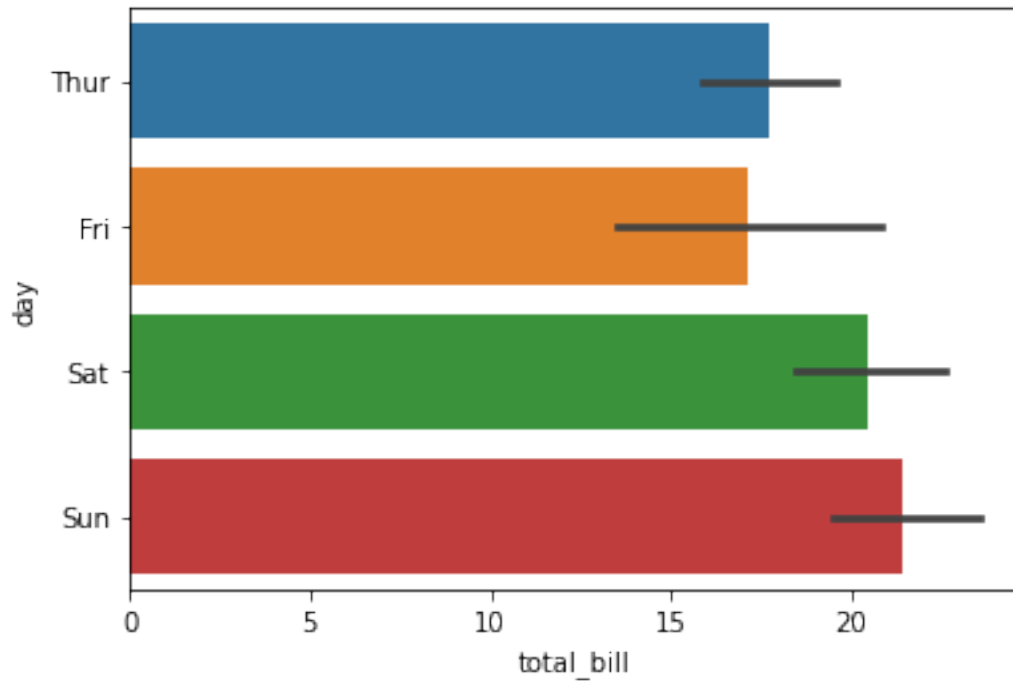
/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning: Pass the following variables as keyword args: x, y. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

```
warnings.warn(
```



```
[63]: sns.barplot("total_bill", "day", data=re); #switching axis to horizontal
```

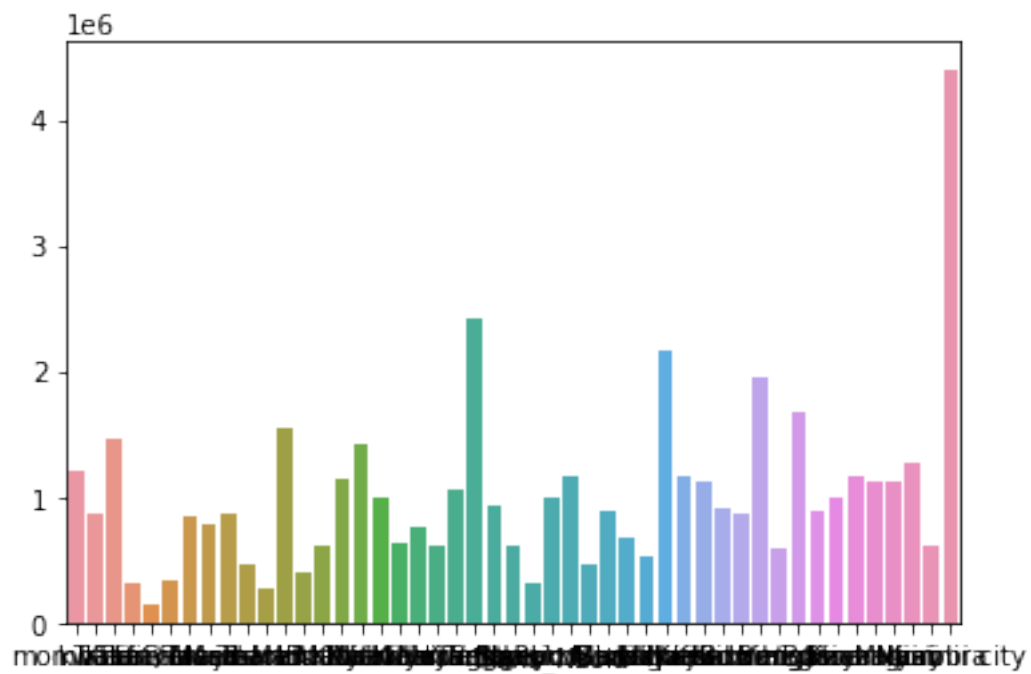
```
/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning:  
Pass the following variables as keyword args: x, y. From version 0.12, the only  
valid positional argument will be `data`, and passing other arguments without an  
explicit keyword will result in an error or misinterpretation.  
warnings.warn(
```



```
[64]: sns.barplot(county,total)
```

```
/opt/conda/lib/python3.9/site-packages/seaborn/_decorators.py:36: FutureWarning:  
Pass the following variables as keyword args: x, y. From version 0.12, the only  
valid positional argument will be `data`, and passing other arguments without an  
explicit keyword will result in an error or misinterpretation.  
warnings.warn(
```

```
[64]: <AxesSubplot:>
```



[]: