DSO 545: Statistical Computing and Data Visualization

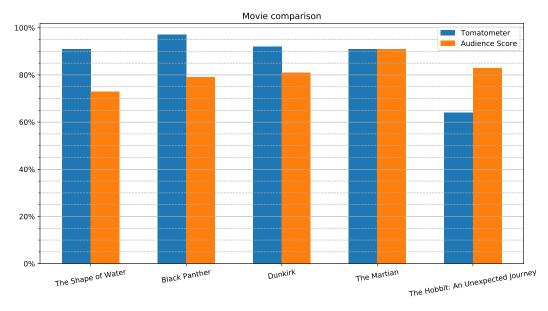
Abbass Al Sharif Fall 2019

Lab 5: Data Visualization Using Matplotlib (part 2)

1. Read the dataset movie_scores.csv into Python, and clean the data if necessary.

##		Movie	eTitle	Tomatometer	AudienceScore
##	0	The Shape of	Water	91	73
##	1	Black Pa	anther	97	79
##	2	Di	unkirk	92	81
##	3	The Ma	artian	91	91
##	4	The Hobbit: An Unexpected Jo	ourney	64	83

- 2. Create the following bar plot to compare the movie scores from Tomatometer and Audience Score.
- ## <BarContainer object of 5 artists>
- ## <BarContainer object of 5 artists>
- ## ([<matplotlib.axis.XTick object at 0x118b53610>, <matplotlib.axis.XTick object at 0x11f072950>, <matplotlib.axis.XTi
- ## ([<matplotlib.axis.YTick object at 0x11f015350>, <matplotlib.axis.YTick object at 0x11f009a10>, <matplotlib.axis.YTi
- ## [Text(0, 0, 'The Shape of Water'), Text(0, 0, 'Black Panther'), Text(0, 0, 'Dunkirk'), Text(0, 0, 'The Control of the Contr
- ## [Text(0, 0, '0%'), Text(0, 0, '20%'), Text(0, 0, '40%'), Text(0, 0, '60%'), Text(0, 0, '80%'), Text(
- ## [<matplotlib.axis.YTick object at 0x11f02a690>, <matplotlib.axis.YTick object at 0x11f0726d0>, <matp

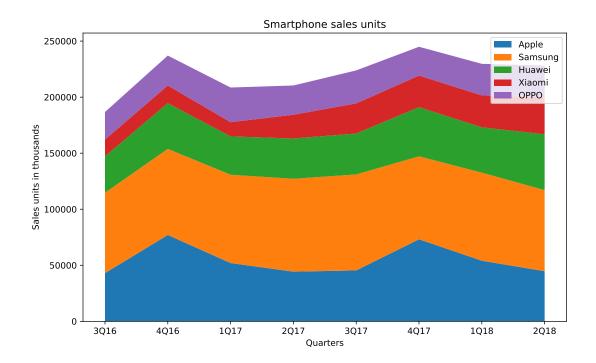


3. Read the dataset smartphone_sales.csv into Python, and clean the data if necessary.

##		Quarter	Apple	Samsung	Huawei	Xiaomi	0PP0
##	0	3Q16	43001	71734	32490	14926	24591
##	1	4Q16	77039	76783	40804	15751	26705
##	2	1Q17	51993	78776	34181	12707	30922

```
## 3
        2017
               44315
                         82855
                                  35964
                                           21179
                                                   26093
## 4
        3Q17
               45442
                         85605
                                  36502
                                           26853
                                                   29449
                                  43887
                                           28188
## 5
        4Q17
               73175
                         74027
                                                   25660
## 6
               54059
                         78565
                                  40426
                                           28498
                                                   28173
        1Q18
## 7
        2Q18
               44715
                         72336
                                  49847
                                           32826
                                                   28511
```

- 4. Create the following stacked area plot to compare the sales units of different smart phone manufacturer.
- ## [<matplotlib.collections.PolyCollection object at 0x121ea63d0>, <matplotlib.collections.PolyCollecti



- 5. Read the dataset anage.csv into Python, and clean the data if necessary.
- 6. The dataset anage.csv is not complete. Filter the data so that you end up with samples containing a body mass and a maximum longevity.
- 7. Create 4 subsets of the given dataset: amphibia, aves, mammalia, and reptilia
- ## array(['Amphibia', 'Aves', 'Mammalia', 'Reptilia'], dtype=object)
 - 8. Create a scatter plot that shows the corrlation between the body mass and the maximum longevity. Use log scale for the x-axis.

