	Mohmad Hosein Ashoori - 97149068 HW3
In []:	<pre>import pandas as pd from sklearn import preprocessing, decomposition import scipy.stats as stats import numpy as np import matplotlib import matplotlib.pyplot as plt import seaborn as sns % matplotlib inline matplotlib istyle.use('fivethirtyeight')</pre>
In []:	UsageError: Line magic function `%` not found. plt.style.use("dark_background") for pdram in ['text.color', 'axes.labelcolor', 'xtick.color']: plt.rcParams[pdram] = '0.9' # very light grey for pdram in ['figure.facecolor', 'axes.facecolor', 'savefig.facecolor']: plt.rcParams[pdram] = '#1a1c23' # bluish dark grey
In []:	social_network_ads.head(10)
In []:	fig, axs = plt.subplots(nrows=1, ncols=2, figsize=(15, 15)) # Fixing random state for reproducibility np.random.seed(19680801) # generate some random test data # generate some random test data # all data = [np.random.normal(0, std, 180) for std in range(6, 10)] all data = social.network ads[["Age"]] # plot violin plot axs[0].violinplot(all data, showmedians=True) axs[0].set_title('Violin plot') # plot box plot axs[1].bxplot(all data) axs[1].bxplot(all data) axs[1].set_title('Box plot') # adding horizontal grid lines for ax in axs: ax.yaxis.grid(True) ax.set_xlinks([y+i for y in range(set(all_data)), len_())], labels=list(set(all_data))) # ax.set_xlabel('Observed values') plt.show()
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In []:	### Customers = pd.read_csv('file/Mall_customers.csv') mall_customers = pd.read_csv('file/Mall_customers.csv')
In []:	sns.jointplot(data=mail_customers, x="Age", y="Annual Income (k\$)", hue='Gender') <pre> </pre> <pre> <pre> <pre></pre></pre></pre>
In []:	140 120 100 40 40 Male Female
In []:	g.plot(sns.scatterplot, sns.histplot)
In []:	<pre>len_male = mall_customers.loc[mall_customers['Gender']=='Male'] len_female = mall_customers.loc[mall_customers['Gender']=='Female'] print(f'Female: {len(len_female)}\nMale: {len(len_male)}') Female: 112</pre>
In []:	<pre>Male: 88 dataset = [['Milk', 'Onion', 'Nutmeg', 'Kidney Beans', 'Eggs', 'Yogurt'], ['Dill', 'Onion', 'Nutmeg', 'Kidney Beans', 'Eggs', 'Yogurt'], ['Milk', 'Apple', 'Kidney Beans', 'Eggs'], ['Milk', 'Unicorn', 'Corn', 'Kidney Beans', 'Yogurt'],</pre>
In []:	<pre>['Corn', 'Onion', 'Onion', 'Kidney Beans', 'Ice cream', 'Eggs']] from apriori_python import apriori itemSetList = dataset freqItemSet, rules = apriori(itemSetList, minSup=0.6, minConf=0.7) print(freqItemSet) rules</pre>
Out[]:	<pre>rules # [{{'beer'}, {'rice'}, 0.666666666666666666666666666666666666</pre>