```
In [2]:
         # import neccessary libraries
         import pandas as pd
          import numpy as np
          import matplotlib.pyplot as plt
          import seaborn as sns
          import plotly.express as px
In [3]:
         # upload data:
         df = pd.read_csv("F:\\archive (14)\\Instagram data.csv")
In [4]:
         # To see the top five heads of the df
          df.head(2)
Out[4]:
                       From
                                From
                                        From
                                              From
                                                                                  Profile
                                                    Saves Comments Shares Likes
                                                                                         Follows
           Impressions
                       Home Hashtags Explore Other
        0
                 3920
                        2586
                                                 56
                                                       98
                                                                          5
                                                                              162
                                                                                      35
                                                                                              2
                                 1028
                                          619
        1
                 5394
                        2727
                                 1838
                                         1174
                                                 78
                                                       194
                                                                         14
                                                                              224
                                                                                      48
                                                                                              10
In [5]:
         # To See the last five rows of data:
          df.tail(2)
                                                                                    Profile
Out[5]:
                         From
                                  From
                                          From
                                                From
                                                      Saves Comments Shares Likes
                                                                                           Follow
             Impressions
                                                                                     Visits
                         Home Hashtags Explore
                                                Other
        117
                  32695
                        11815
                                   3147
                                          17414
                                                  170
                                                        1095
                                                                     2
                                                                           75
                                                                                549
                                                                                       148
                                                                                               21
        118
                  36919 13473
                                   4176
                                          16444
                                                 2547
                                                         653
                                                                     5
                                                                           26
                                                                                443
                                                                                       611
                                                                                               22
```

```
In [6]:
          # To see the shape of data
          df.shape
Out[6]: (119, 13)
In [7]:
          # To see the size of data
          df.size
Out[7]: 1547
In [8]:
          # To check the dtypes of data, there is all integers except caption and
          Hashtags:
          df.dtypes
         Impressions
                            int64
Out[8]:
         From Home
                            int64
         From Hashtags
                            int64
         From Explore
                            int64
         From Other
                            int64
         Saves
                            int64
         Comments
                            int64
         Shares
                           int64
         Likes
                            int64
         Profile Visits
                           int64
         Follows
                           int64
         Caption
                           object
         Hashtags
                           object
         dtype: object
In [9]:
          # To get an infomation of data:
          df.info()
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 119 entries, 0 to 118
         Data columns (total 13 columns):
          #
             Column
                             Non-Null Count Dtype
              Impressions
                             119 non-null
                                             int64
          0
              From Home
                             119 non-null
                                             int64
          1
          2
              From Hashtags
                             119 non-null
                                             int64
          3
              From Explore
                             119 non-null
                                             int64
          4
              From Other
                             119 non-null
                                             int64
          5
              Saves
                             119 non-null
                                             int64
          6
              Comments
                             119 non-null
                                             int64
          7
              Shares
                             119 non-null
                                             int64
          8
              Likes
                             119 non-null
                                             int64
          9
              Profile Visits 119 non-null
                                             int64
          10 Follows
                             119 non-null
                                             int64
          11 Caption
                             119 non-null
                                             object
                             119 non-null
          12 Hashtags
                                             object
         dtypes: int64(11), object(2)
         memory usage: 12.2+ KB
In [10]:
          # To see all the columns in the data:
          df.columns
```

df.describe().T

Out[11]:

	count	mean	std	min	25%	50%	75%	max
Impressions	119.0	5703.991597	4843.780105	1941.0	3467.0	4289.0	6138.0	36919.0
From Home	119.0	2475.789916	1489.386348	1133.0	1945.0	2207.0	2602.5	13473.0
From Hashtags	119.0	1887.512605	1884.361443	116.0	726.0	1278.0	2363.5	11817.0
From Explore	119.0	1078.100840	2613.026132	0.0	157.5	326.0	689.5	17414.0
From Other	119.0	171.092437	289.431031	9.0	38.0	74.0	196.0	2547.0
Saves	119.0	153.310924	156.317731	22.0	65.0	109.0	169.0	1095.0
Comments	119.0	6.663866	3.544576	0.0	4.0	6.0	8.0	19.0
Shares	119.0	9.361345	10.089205	0.0	3.0	6.0	13.5	75.0
Likes	119.0	173.781513	82.378947	72.0	121.5	151.0	204.0	549.0
Profile Visits	119.0	50.621849	87.088402	4.0	15.0	23.0	42.0	611.0
Follows	119.0	20.756303	40.921580	0.0	4.0	8.0	18.0	260.0

To check the null values in the data or not, there is no null values so treatment is not required;

df.isnull().sum()

Out[12]: Impressions 0 From Home 0 From Hashtags 0 From Explore 0 From Other 0 Saves 0 Comments 0 Shares 0 Likes 0 Profile Visits 0 Follows 0 Caption 0 Hashtags dtype: int64

see the value counts of data with unstack

df.value_counts(ascending=True).unstack()

Out[13]:

Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Follows	
1941	1466	411	37	17	49	6	3	82	8	2	

Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Follows	
											ar I
2064	1304	362	249	37	49	4	5	76	9	0	•
											di n
											•
											1
											†
											u
											н
											п 1
2191	1308	809	45	18	35	2	1	72	18	0	
											p w t
											tr
											lŧ
2210	1507	411	162	15	20	6	2	01	20	4	dı
2218	1597	411	162	15	28	6	3	81	29	4	im
											N
											F
2327	1774	435	59	35	45	3	3	85	7	2	H (

Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	Likes	Profile Visits	Follows	
•••	•••	•••	•••	•••	•••	•••	•••	•••	•••	***	
16062	3144	11817	564	468	252	6	20	416	330	94	
											Pı
											1
17396	1817	10008	5192	251	285	7	7	416	467	260	F.
											Α
											e: Pj
											u
											im
											а
											Cã
											A
											1
17713	2449	2141	12389	561	504	3	23	308	70	96	F
32695	11815	3147	17414	170	1095	2	75	549	148	214	ŀ of
											OI
											с
36919	13473	4176	16444	2547	653	5	26	443	611	228	

102 rows × 54 columns

fr

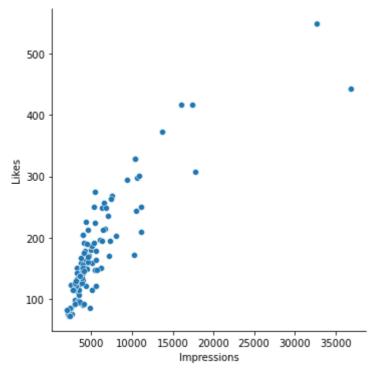
```
In [14]:
          # see unique values in the data
          df.nunique()
         Impressions
                           101
Out[14]:
         From Home
                            97
         From Hashtags
                           100
         From Explore
                            95
         From Other
                            84
         Saves
                            84
         Comments
                            15
         Shares
                            28
         Likes
                            85
         Profile Visits
                            59
         Follows
                            29
         Caption
                            90
         Hashtags
                            54
         dtype: int64
In [15]:
          # To get the two columns together to do comparison:
          df[['Impressions', 'Likes']]
```

Out[15]:		Impressions	Likes
	0	3920	162
	1	5394	224
	2	4021	131
	3	4528	213
	4	2518	123
	•••		
	114	13700	373
	115	5731	148
	116	4139	92
	117	32695	549
	118	36919	443

119 rows × 2 columns

```
# make a relational plot in which x axis contains value of impressions and y axis contains values of likes,
# this plot telling us the relationship between impressions and Likes,
how they are connected with each
# other .....there is more likes more impressions and less likes then
getting less impressions,
sns.relplot(data= df, x="Impressions", y="Likes")
```

Out[16]: <seaborn.axisgrid.FacetGrid at 0x1beaddee2e0>



In [17]: # To get a groupby of impressions and from home values:
df.groupby(['Impressions', 'From Home']).sum().T

Out[17]:	Impressions	1941	2064	2191	2218	2327	2407	2518	2523	2621	2766	•••	10667	10933	11
	From Home	1466	1304	1308	1597	1774	1338	1704	1659	1543	2541	•••	3152	3152	2
	From Hashtags	411	362	809	411	435	1310	255	796	599	232		6564	6610	·
	From Explore	37	249	45	162	59	552	279	29	333	102		617	623	ļ
	From Other	17	37	18	15	35	78	37	21	25	18		187	334	
	Saves	49	49	35	28	45	80	96	34	22	80		219	225	
	Comments	6	4	2	6	3	16	5	6	5	20		13	13	
	Shares	3	5	1	3	3	40	4	0	1	8		15	15	
	Likes	82	76	72	81	85	144	123	86	76	228		297	301	
	Profile Visits	8	9	18	29	7	20	8	4	26	22		306	347	
	Follows	2	0	0	4	2	0	0	2	0	12		74	94	

9 rows × 102 columns

To see relational plot of impressions and from home which is telling us the relationship of both,

more impressions when posts from home and the getting low...

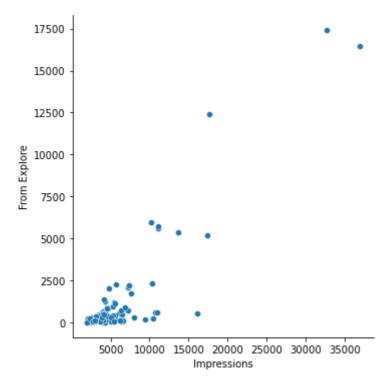
sns.relplot(data= df, x="Impressions", y="From Home")

Out[18]: <seaborn.axisgrid.FacetGrid at 0x1beadf261f0>

```
14000 - 12000 - 10000 - 10000 - 10000 20000 25000 30000 35000 Impressions
```

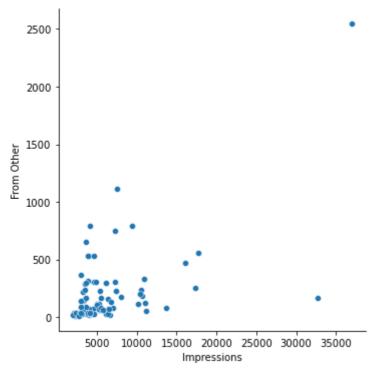
Relational plot of impressions and 'from explore' values of data which is telling us their relationship sns.relplot(data= df, x="Impressions", y="From Explore")

Out[19]: <seaborn.axisgrid.FacetGrid at 0x1beae700730>



Relational plot of impressions and 'from other', which telling us their relationship
sns.relplot(data= df, x="Impressions", y="From Other")

Out[20]: <seaborn.axisgrid.FacetGrid at 0x1beae76e280>



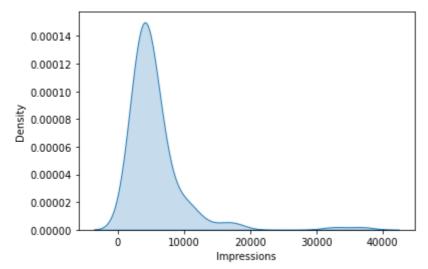
to get the group by impressions with sum values of all varaiables with see the heads:

df.groupby('Impressions').sum().head(2).T

```
Out[21]:
              Impressions
                          1941 2064
              From Home
                           1466
                                  1304
           From Hashtags
                            411
                                   362
            From Explore
                             37
                                   249
              From Other
                             17
                                    37
                   Saves
                             49
                                    49
               Comments
                   Shares
                              3
                    Likes
                                    76
             Profile Visits
                                     9
                  Follows
                              2
                                     0
```

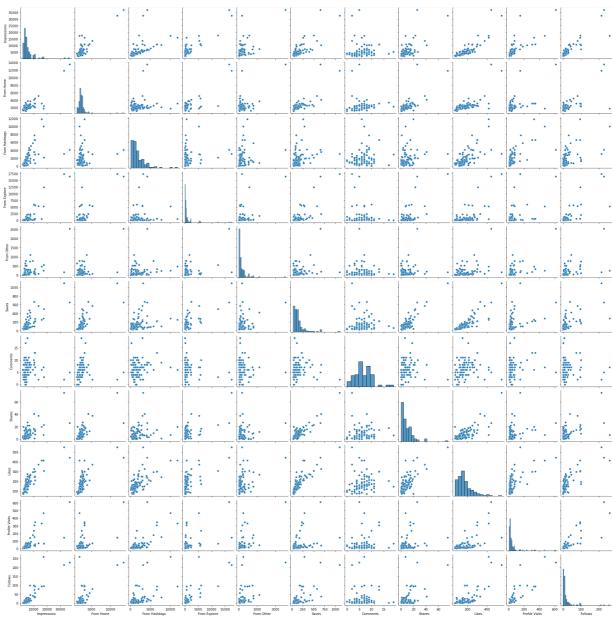
```
In [22]: # KDE is plot of 'Impressions'
sns.kdeplot(df['Impressions'], shade = True)
```

Out[22]: <AxesSubplot:xlabel='Impressions', ylabel='Density'>



```
In [23]: # Blank Cell
In [24]: # Pairplot of data:
sns.pairplot(df)
```

Out[24]: <seaborn.axisgrid.PairGrid at 0x1beae7c8940>



In [25]:

See the correlation of data

corr= df.corr()

In [26]:

To see the relationship between the variables:

corr

Out[26]:

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	
Impressions	1.000000	0.844698	0.560760	0.893607	0.592960	0.779231	-0.028524	0.634675	0.8
From Home	0.844698	1.000000	0.177516	0.800573	0.555666	0.768817	0.012716	0.674985	0.6
From Hashtags	0.560760	0.177516	1.000000	0.190453	0.229623	0.305929	0.161439	0.219511	0.6
From Explore	0.893607	0.800573	0.190453	1.000000	0.495685	0.747803	-0.158565	0.615731	0.6
From Other	0.592960	0.555666	0.229623	0.495685	1.000000	0.331907	-0.108703	0.156834	0.3
Saves	0.779231	0.768817	0.305929	0.747803	0.331907	1.000000	-0.026912	0.860324	0.8
Comments	-0.028524	0.012716	0.161439	-0.158565	-0.108703	-0.026912	1.000000	0.016933	0.1

	Impressions	From Home	From Hashtags	From Explore	From Other	Saves	Comments	Shares	
Shares	0.634675	0.674985	0.219511	0.615731	0.156834	0.860324	0.016933	1.000000	0.7
Likes	0.849835	0.698330	0.662124	0.653699	0.393510	0.845643	0.123586	0.707794	1.0
Profile Visits	0.760981	0.531076	0.691345	0.531850	0.633080	0.360628	0.096714	0.245361	0.6
Follows	0.889363	0.672675	0.555485	0.796019	0.546737	0.628461	-0.060631	0.493070	0.7

In [27]:

Make Heat map of variables to check the higher and lower values
Draw the heatmap which shows the relationship between the varaibles how
they are related to each other,

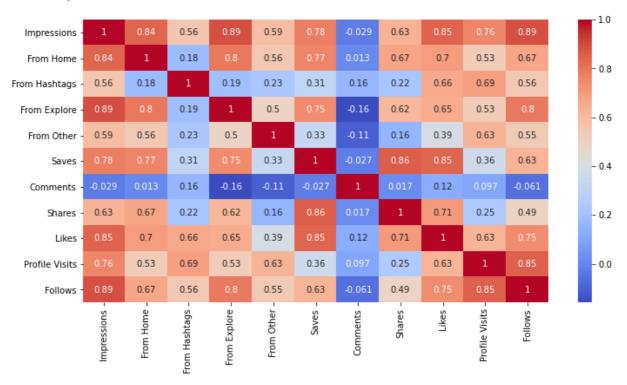
dark blocks shows higher values(strongly related) , medium color shows
medium values and light color blocks shows lesser
#(weak relation)

values..

plt.figure(figsize=(12,6))

sns.heatmap(corr, annot= True, cmap= 'coolwarm')

Out[27]: <AxesSubplot:>



In [28]:

make a pivot table for Impressions and From home variables:
table = pd.pivot_table(data=df,index=['Impressions','From Home']).mean()
table

Out[28]: Comments 6.352941 Follows 22.823529 From Explore 1178.568627 From Hashtags 1968.284314

From Other 184.549020 Likes 176.823529 Profile Visits 54.666667 Saves 156.549020 Shares 9.303922

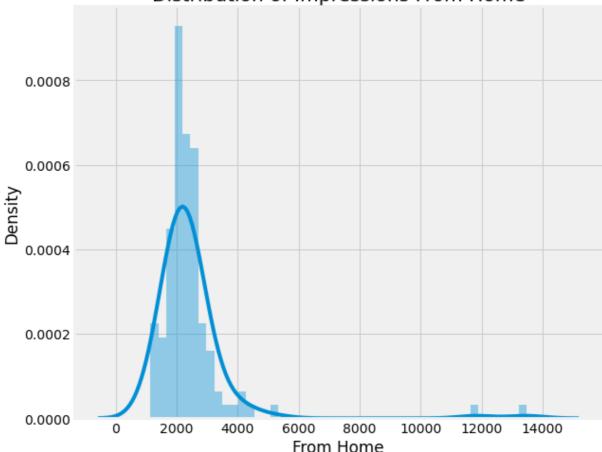
dtype: float64

```
In [29]:
```

```
# By these two variables we are analyzing the reach of my instagram
posts, i will look at the distribution
# of impressions i have received from home, this graph is telling us how
much impressions values are
# receiveing from the varible "From Home", how much it is influencing the
'Impressions' for the posts.
plt.figure(figsize=(10, 8))
plt.style.use('fivethirtyeight')
plt.title("Distribution of Impressions From Home")
sns.distplot(df['From Home'])
plt.show()
# summary: this impressions we getting from the home section on instagram
which shows how much my posts
# reach my followers, by seeing this impressions from home, i can say
it's hard to reach all my followers
# daily.
```

C:\Users\Simmy\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarnin
g: `distplot` is a deprecated function and will be removed in a future version. Please
adapt your code to use either `displot` (a figure-level function with similar flexibil
ity) or `histplot` (an axes-level function for histograms).
 warnings.warn(msg, FutureWarning)





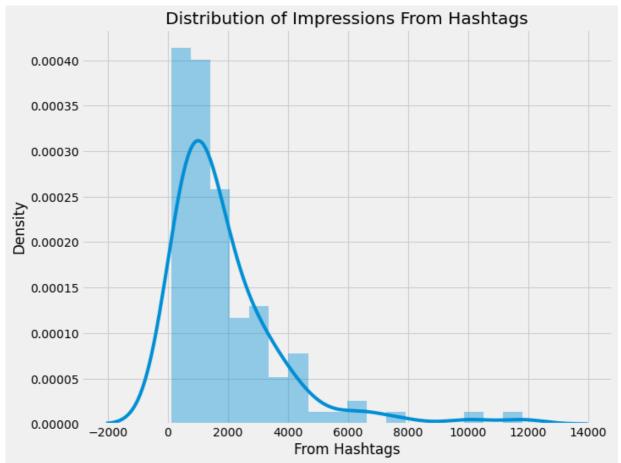
```
In [30]:
         # making a pivot table for the "Impressions" and " From Hashtags"
         variables, which will further
         # playing a role in distribution graph for these two and analyzing the
         reach of the instagram posts.
         table = pd.pivot_table(data=df,index=['Impressions','From
         Hashtags']).mean()
         table
```

```
Out[30]: Comments
                            6.352941
         Follows
                           22.823529
         From Explore
                        1178.568627
                         2496.911765
         From Home
         From Other
                          184.549020
         Likes
                          176.823529
         Profile Visits
                           54.666667
                          156.549020
         Saves
                            9.303922
         Shares
         dtype: float64
```

In [31]: |# By these two variables we are analyzing the reach of my instagram posts, i will look at the distribution # of impressions i have received from home, this graph is telling us how much impressions values are # receiveing from the variable "From Hshtags", how much it is influencing the 'Impressions' for the posts # by the "From Hashtags" variable...

```
plt.figure(figsize=(10, 8))
plt.title("Distribution of Impressions From Hashtags")
sns.distplot(df['From Hashtags'])
plt.show()
#summary: now lets have a look on this distribution of impressions i
received from hashtags, by seeing this
# graph i m analyzing that impressions are stronger by hashtags section
later on , it is falling down,
# Hashtags are tools we use to categorize our posts on Instagram so that
we can reach more people based
# on the kind of content we are creating. Looking at hashtags impressions
shows that not all posts can be
# reached using hashtags, but many new users can be reached from
hastags.not all posts connected to
# hashtags but some of the posts connected to hashtags therefore, some of
the posts reaching to users,
# this is why , initially it is raising and influencing "Impressions" and
then later it is falling, now
# impressions are falling.
```

C:\Users\Simmy\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarnin
g: `distplot` is a deprecated function and will be removed in a future version. Please
adapt your code to use either `displot` (a figure-level function with similar flexibil
ity) or `histplot` (an axes-level function for histograms).
 warnings.warn(msg, FutureWarning)



```
In [32]:
         # making a pivot table for the "Impressions" and " From Explore"
         variables, which will further
         # playing a role in distribution graph for these two and analyzing the
         reach of the instagram posts.
         table = pd.pivot_table(data=df,index=['Impressions','From
         Explore']).mean()
         table
```

```
Out[32]: Comments
                           6.352941
        Follows
                          22.823529
        From Hashtags 1968.284314
        From Home
                       2496.911765
        From Other
                         184.549020
        Likes
                         176.823529
        Profile Visits
                         54.666667
        Saves
                         156.549020
        Shares
                           9.303922
        dtype: float64
```

In [33]:

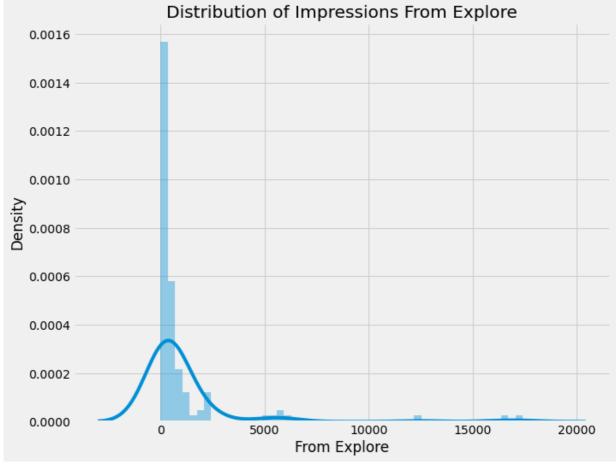
```
# By these two variables we are analyzing the reach of my instagram
posts, i will look at the distribution
# of impressions i have received from home, this graph is telling us how
much impressions values are
# receiveing from the variable "From Explore", how much it is influencing
the 'Impressions' for the posts
# by the "From Explore" variable...
plt.figure(figsize=(10,8))
```

```
plt.title("Distribution of Impressions From Explore")
sns.distplot(df['From Explore'])
plt.show()

#summary: Now lets have a look on distribjution graph of "impressions"
and "From Explore", by this
#explore section of instagram is the recommendation system of
instagram.It recommends posts to the users
#based on their preferences and interests.By seeing at the impressions i
have received from the explore
# section, i can say that instagram doest not recommend our posts much to
mthe users.Some posts have
# reach from the explore section, but still very low as compared to the
reach i recieve from hastags.
```

C:\Users\Simmy\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarnin g: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibil ity) or `histplot` (an axes-level function for histograms).

warnings.warn(msg, FutureWarning)



In [34]:

making a pivot table for the "Impressions" and " From Other" variables, which will further

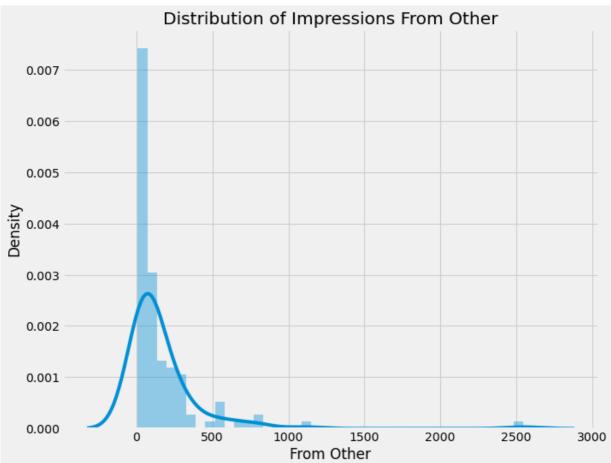
playing a role in distribution graph for these two and analyzing the reach of the instagram posts.

```
table = pd.pivot_table(data=df,index=['Impressions','From Other']).mean()
table
```

```
Comments
                              6.352941
Out[34]:
         Follows
                             22.823529
         From Explore
                           1178.568627
         From Hashtags
                           1968.284314
         From Home
                           2496.911765
         Likes
                            176.823529
         Profile Visits
                             54.666667
         Saves
                            156.549020
         Shares
                              9.303922
         dtype: float64
```

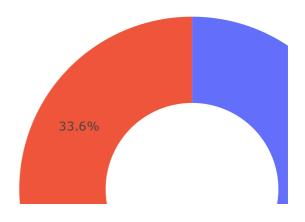
```
In [35]:
         # making a distribution plot of "Impressions" and "From Other". By these
         two variables we are analyzing the reach of my instagram posts,i will
         look at the distribution
         # of impressions i have received from home, this graph is telling us how
         much impressions values are
         # receiveing from the variable "From Other", how much it is influencing
         the 'Impressions' for the posts
         # by the "From Other" variable...
         plt.figure(figsize=(10,8))
         plt.style.use('fivethirtyeight')
         plt.title("Distribution of Impressions From Other")
         sns.distplot(df['From Other'])
         plt.show()
         # summary: From other section , posts are reaching to the users by the
         other resources, like other links,
         # advertisement, frens of frens, followers of follwers or their following
         or in other ways, by seeing at r
         # the other section ,some posts are reaching from the other section but
         it is very low as compared to other
         # sections, it inflencing the impressions but in very low.
```

C:\Users\Simmy\anaconda3\lib\site-packages\seaborn\distributions.py:2557: FutureWarnin g: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibil ity) or `histplot` (an axes-level function for histograms). warnings.warn(msg, FutureWarning)

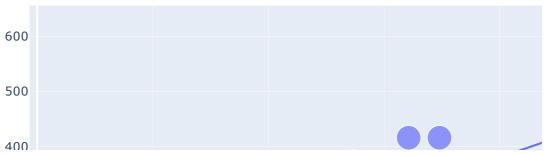


```
In [36]:
         #Now let's have a look at the percentage of impressions I get from
         various sources on Instagram, making a
         # donut chart to get better understanding of all sections which is
         required for the analyses.
         home = df["From Home"].sum()
         hashtags = df["From Hashtags"].sum()
         explore = df["From Explore"].sum()
         other = df["From Other"].sum()
         labels = ['From Home','From Hashtags','From Explore','Other']
         values = [home, hashtags, explore, other]
         fig = px.pie(df, values=values, names=labels,
                      title='Impressions on Instagram Posts From Various Sources',
         hole=0.5)
         fig.show()
         #summary: So the above donut plot shows that almost 50 per cent of the
         reach is from my followers,
         #38.1 per cent is from hashtags, 9.14 per cent is from the explore
         section,
         #and 3.01 per cent is from other sources.
```

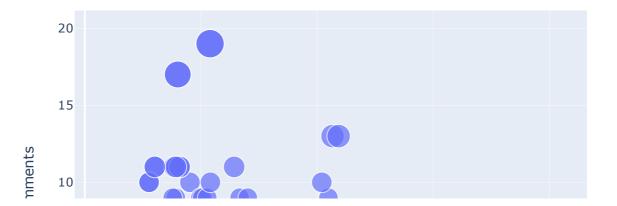
Impressions on Instagram Posts From Various Sources



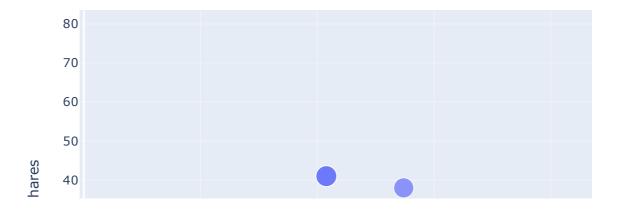
Relationship Between Likes and Impresssions



Relationship Between Impressions and Comments



Relationship Between Impressions and Shares



```
#Now Let's have a Look at the relationship between the number of saves and the number of impressions:

figure = px.scatter(data_frame= df, x="Impressions", y =

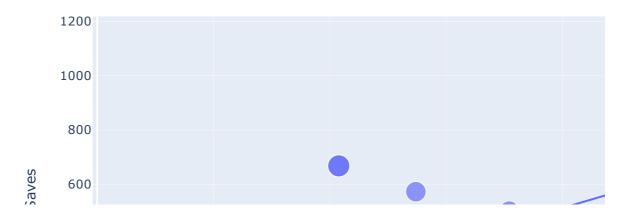
"Saves",trendline= "ols",

title= "Relationship Between Impressions and Shares",

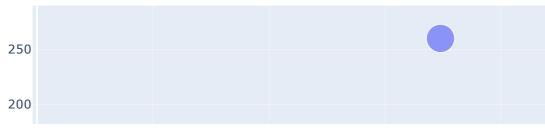
size= "Saves")
```

figure.show()
#There is a linear relationship between the number of times my post is
#saved and the reach of my Instagram post.

Relationship Between Impressions and Shares



Relationship Between Impressions and Shares



150

```
In [42]:
          # find out the correlation between the varibles.
          correlation = df.corr()
          print(correlation["Impressions"].sort_values(ascending = False))
         Impressions
                          1.000000
         From Explore
                          0.893607
         Follows
                          0.889363
         Likes
                          0.849835
         From Home
                          0.844698
         Saves
                          0.779231
         Profile Visits
                          0.760981
         Shares
                          0.634675
         From Other
                          0.592960
         From Hashtags
                          0.560760
         Comments
                          -0.028524
         Name: Impressions, dtype: float64
In [43]:
          # correlation of likes columns with sorting with decending order:
          print (correlation["Likes"].sort_values(ascending = False))
         Likes
                          1.000000
         Impressions
                          0.849835
         Saves
                          0.845643
         Follows
                          0.746333
         Shares
                          0.707794
         From Home
                          0.698330
         From Hashtags
                          0.662124
         From Explore
                          0.653699
         Profile Visits
                          0.626107
         From Other
                          0.393510
         Comments
                          0.123586
         Name: Likes, dtype: float64
In [44]:
          # sorting values of some variables:
          df.sort_values(by=['Likes', 'Follows'], inplace=True,
                           ascending = [True, True])
          print(df)
              Impressions
                          From Home
                                     From Hashtags
                                                    From Explore From Other
                                                                             Saves
         19
                     2407
                               1338
                                               655
                                                             276
                                                                          39
                                                                                40
```

809

45

18

35

2191

1308

```
2621
                               1543
                                               599
                                                                         25
                                                                                22
                                                             333
         6
                                                             249
         20
                    2064
                               1304
                                               362
                                                                         37
                                                                                49
                     . . .
                                                             . . .
                                                                                . . .
                                . . .
                                               . . .
         114
                   13700
                               5185
                                              3041
                                                            5352
                                                                         77
                                                                               573
         40
                               3144
                                             11817
                                                            564
                                                                        468
                                                                               252
                   16062
         107
                   17396
                                             10008
                                                           5192
                                                                        251
                                                                               285
                               1817
                                              4176
                                                           16444
                                                                       2547
                                                                               653
         118
                   36919
                              13473
                   32695
                                              3147
                                                           17414
                                                                        170
                                                                              1095
         117
                              11815
              Comments Shares Likes Profile Visits Follows \
         19
                   8
                         20
                                  72
                                                 10
                    2
         38
                           1
                                  72
                                                  18
                                                           a
                    8
                           20
                                  72
                                                  10
                                                           0
         86
                    5
                                                  26
                                                           0
         6
                           1
                                  76
                           5
         20
                    4
                                  76
                                                  9
                                                           0
                   2
         114
                           38
                                 373
                                                 73
                                                          80
         40
                    6
                           20
                                 416
                                                 330
                                                          94
         107
                    7
                           7
                                 416
                                                          260
                                                 467
                    5
                           26
                                 443
         118
                                                 611
                                                          228
                    2
                           75
                                 549
         117
                                                 148
                                                          214
                                                       Caption \
         19
              Data Science Use Cases: Here s how Zomato is u...
         38
              Language detection is a natural language proce...
         86
              Data Science Use Cases: Here s how Zomato is u...
         6
              Learn how to analyze a candlestick chart as a ...
         20
              A boxplot is a statistical data visualization ...
         114 Here are some of the best data science certifi...
         40
              280 Machine Learning Projects Solved & Explain...
         107 Here is a list of 100+ Machine Learning Algori...
         118 175 Python Projects with Source Code solved an...
         117 Here are some of the best data science certifi...
         19
              #data�#datascience�#dataanalysis�#dataanalytic...
         38
              #data�#datascience�#dataanalysis�#dataanalytic...
              #data@#datascience@#dataanalysis@#dataanalytic...
         86
         6
              #stockmarket@#investing@#stocks@#trading@#mone...
         20
              #datavisualization *#datascience *#data* #dataana...
             #datascience #datascience jobs #datascience trai...
         114
         40
              #data�#datascience�#dataanalysis�#dataanalytic...
         107
             #machinelearning *machinelearning algorithms *#d...
             #python�#pythonprogramming�#pythonprojects�#py...
             #datascience #datascience jobs #datascience trai...
         [119 rows x 13 columns]
In [45]:
          # Analyzing the conversion rate:
          #In Instagram, conversation rate means how many followers you are getting
          from the number of
          #profile visits from a post. The formula that you can use to calculate
          conversion rate is
          #(Follows/Profile Visits) * 100.
          #Now let's have a look at the conversation rate of my Instagram account:
          conversion_rate= (df["Follows"].sum()/df["Profile Visits"].sum()*100)
```

conversion rate

Out[45]: 41.00265604249668 In [46]: # Blank Cell:----********* In [47]: #home = df["From Home"].sum() #hashtags = df["From Hashtags"].mean() #explore = df["From Explore"].mean() #other = df["From Other"].mean() #labels = ['From Home', 'From Hashtags', 'From Explore', 'Other'] #values = [home, hashtags, explore, other] #fig = px.pie(df, values=values, names=labels, #title='Impressions on Instagram Posts From Various Sources', hole=0.5) #fig.show() In []: In [48]: #figure = px.scatter(data_frame= df, x = 'Profile Visits', #y = "Follows", size = "Follows", trendline= "ols", #title = "Relationship Between Profile Visits and Followers Gained") #figure.show() In [49]: #df.groupby(['Saves', 'Comments']).sum() In [50]: #df.groupby('Impressions').agg({'From Home': ['mean', 'min', 'max']}) In []: #****END PROJ In []: In []: In []: