

Out[93]:	/Users/nicolasmcontreras/miniconda3/envs/JupyterEnv/lib/python3.9/site-packages/seaborn/distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your of ode to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).  warnings.warn(msg, FutureWarning) <axessubplot:xlabel='budget', ylabel="Density">  1e-8  6  5  1a  4  2  1a  4  4  4  4  5  6  5  6  5  6  5  6  6  7  6  7  7  7  7  7  7  7  7  7</axessubplot:xlabel='budget',>
<pre>In [94]: Out[94]:</pre>	#Most expensive movies of all time movies[movies['budget'].notnull()][['title', 'budget', 'revenue', 'return', 'year']].sort_values('budget', asc  title budget revenue return year  17124 Pirates of the Caribbean: On Stranger Tides 380000000.0 1.045714e+09 2.751878 2011  11827 Pirates of the Caribbean: At World's End 300000000.0 9.610000e+08 3.203333 2007
In [96]:	26558         Avengers: Age of Ultron         280000000.0         1.405404e+09         5.019299         2015           11067         Superman Returns         270000000.0         3.910812e+08         1.448449         2006           44842         Transformers: The Last Knight         260000000.0         6.049421e+08         2.326701         2017           16130         Tangled         260000000.0         5.917949e+08         2.276134         2010           18685         John Carter         260000000.0         2.841391e+08         1.092843         2012           11780         Spider-Man 3         258000000.0         8.908716e+08         3.452991         2007           21175         The Lone Ranger         2550000000.0         8.928991e+07         0.350157         2013           22059         The Hobbit: The Desolation of Smaug         250000000.0         9.584000e+08         3.833600         2013
Out[96]:	<pre>sns.jointplot(x='budget',y='revenue',data=movies[movies['return'].notnull()]) <seaborn.axisgrid.jointgrid 0x7fc4003ccdc0="" at=""></seaborn.axisgrid.jointgrid></pre> 1e8 1e9 25 20
In [98]:	#Description of revenue variable movies['revenue'].describe()
Out[98]:	<pre>count    7.408000e+03 mean     6.878739e+07 std     1.464203e+08 min     1.000000e+00 25%     2.400000e+06 50%     1.682272e+07 75%     6.722707e+07 max     2.787965e+09 Name: revenue, dtype: float64  #Distribution plot of revenue sns.distplot(movies[movies['revenue'].notnull()]['revenue'])  /Users/nicolasmcontreras/miniconda3/envs/JupyterEnv/lib/python3.9/site-packages/seaborn/distributions.py:2619:</pre>
Out[99]:	FutureWarning: `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 flexibility) or `histplot` (an axes-level function for histograms).  warnings.warn(msg, FutureWarning) <axessubplot:xlabel='revenue', ylabel="Density">  1e-8  1.2  1.0  0.8  0.8  0.4</axessubplot:xlabel='revenue',>
In [100 Out[100	#Most successful movies  movies[(movies['return'].notnull()) & (movies['budget'] > 5e6)][['title', 'budget', 'revenue', 'return', 'year  title budget revenue return year  1065 E.T. the Extra-Terrestrial 10500000.0 792965326.0 75.520507 1982  256 Star Wars 11000000.0 775398007.0 70.490728 1977  1338 Jaws 7000000.0 470654000.0 67.236286 1975
In [102	1888         The Exorcist         8000000.0         441306145.0         55.163268         1973           352         Four Weddings and a Funeral         6000000.0         254700832.0         42.450139         1994           834         The Godfather         6000000.0         245066411.0         40.844402         1972           4492         Look Who's Talking         7500000.0         296000000.0         39.466667         1989           24258         Annabelle         6500000.0         255273813.0         39.272894         2014           1056         Dirty Dancing         6000000.0         213954274.0         35.659046         1987           1006         The Sound of Music         8200000.0         286214286.0         34.904181         1965
Out[102	
In [103	<pre>#Correlation matrix movies['year'] = movies['year'].replace('NaT', np.nan) movies['year'] = movies['year'].apply(clean_numeric)  sns.set(font_scale=1) corr = movies.corr() mask = np.zeros_like(corr) mask[np.triu_indices_from(mask)] = True with sns.axes_style("white"):     plt.figure(figsize=(9,9))     ax = sns.heatmap(corr, mask=mask, vmax=.3, square=True, annot=True)</pre>
	budget - 0.25  popularity 0.37  revenue 0.73 0.46  runtime 0.22 0.13 0.2
	vote_average         0.075         0.097         0.15         0.11         -0.10           vote_count         0.62         0.56         0.78         0.11         0.12         -0.0087         -0.01         -0.014         0.016         -0.0087         -0.005         -0.05         -0.05         -0.00
In []: In []:	