

Seaborn - 1 feature

<pre>_, axes = plt.subplots(nrows=1, ncols=2, figsize=(12, 4)) axis[0] = sns.xxx</pre>	put a sns plot in a pyplot figure
<pre>sns.distplot(df['feat']);</pre>	histogram + density of a numeric feature's repartition
<pre>sns.boxplot(data=df['feat']);</pre>	simple boxplot
<pre>sns.violinplot(data=df['feat']);</pre>	simple violin plot
<pre>sns.countplot(x='feat', data=df);</pre>	repartition of a categorical feature

Seaborn - 2 features

Dimensionality reduction - t-SNE

```
from sklearn.manifold import TSNE
from sklearn.preprocessing
import StandardScaler

# Standardize data
scaler = StandardScaler()
tab_scaled = scaler.fit_transform(tab)

# Run t-SNE
tsne = TSNE(random_state=17)
tsne_repr = tsne.fit_transform(tab_scaled)

# Show results
plt.scatter(tsne_repr[:, 0], tsne_repr[:, 1], c=df[...]);
```

Plotly

```
from plotly.offline import download_plotlyjs, init_notebook_mode, iplot
import plotly
import plotly.graph_objs as go

trace0 = go.XXX
data = [trace0, trace1, ...]
layout = {'title': title, ...}
fig = go.Figure(data=data, layout=layout)
iplot(fig, show_link=False)

trace = go.Scatter(x=feat1, y=feat2, name=)
trace = go.Bar(x=feat1, y=feat2, name=)
trace = go.Box(y=feat, name=genre)

plotly.offline.plot(
    fig,
    filename='file.html',
    show_link=False)
```

<code>sns.heatmap(matrix)</code>	heatmap
<code>sns.jointplot(x=feat1, y=feat2, data=df, kind=['scatter', 'kde'])</code>	joint plot
<code>sns.pairplot(df[feats])</code>	scatterplots matrix
<code>sns.boxplot(x=feat1, y=feat2, data=df, ax=ax)</code>	boxplot for disjoint groups (x categorical)
<code>sns.violinplot(x=feat1, y=feat2, data=df, ax=ax)</code>	violin plot for disjoint groups
<code>sns.countplot(x='feat1', hue='feat2', data=df)</code>	repartition of a categorical feature according to another one
<code>sns.lmplot(feat1, feat2, data=df, hue=feat3, fit_reg=False)</code>	scatterplot with color according to category
<code>sns.factorplot(x=cat1, y=numeric, col=cat2, data=df, kind="box", col_wrap=4, size=, aspect=)</code>	analyze a quantitative variable in 2 categorical dimensions at once



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