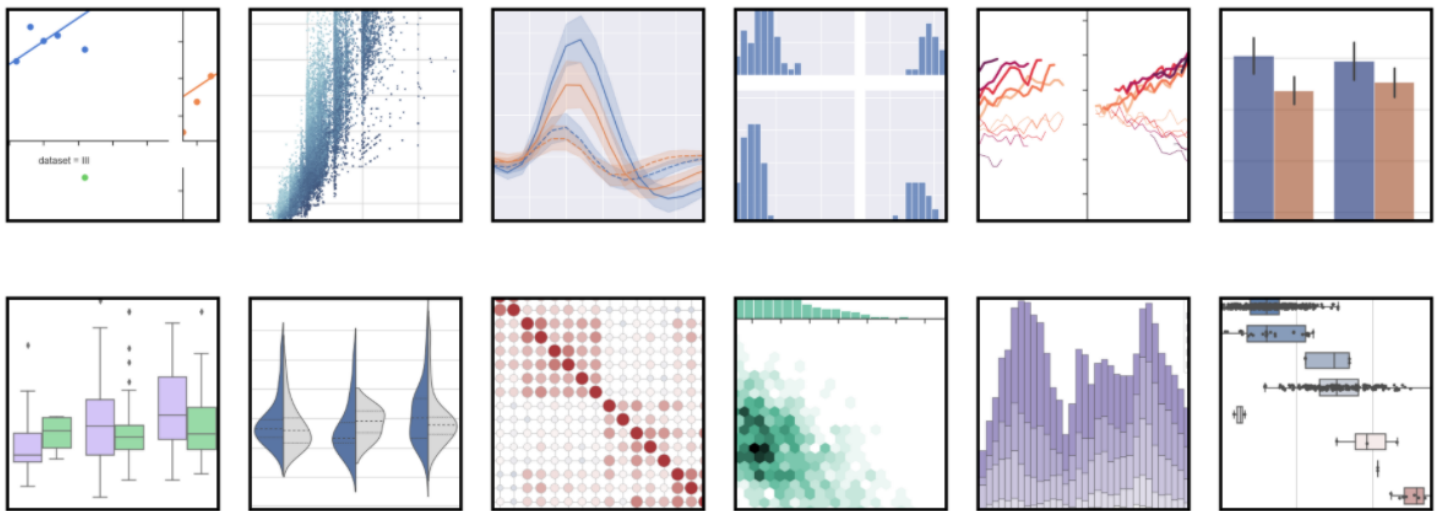


data science

A simple cheat sheet for Seaborn Data Visualization

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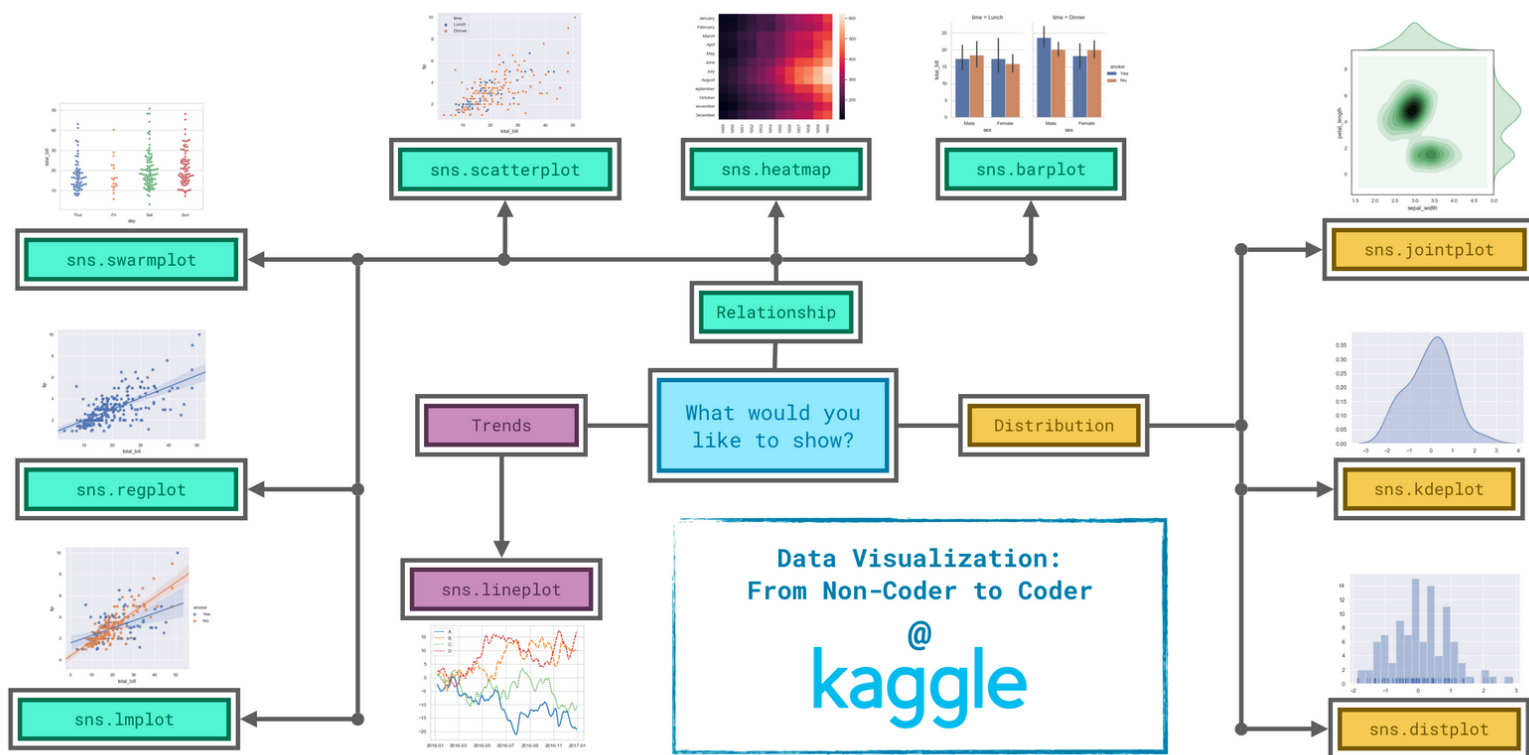
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Just gonna put this out here, courtesy of [Kaggle's Data Visualization course](#).

It is a super simple description of the different plots you can do with [Seaborn](#), simply divided into the type of story you're trying to tell.

There's even an awesome photo!



Trends - A trend is defined as a pattern of change.

- `sns.lineplot` - **Line charts** are best to show trends over a period of time, and multiple lines can be used to show trends in more than one group.

Relationship - There are many different chart types that you can use to understand relationships between variables in your data.

- `sns.barplot` - **Bar charts** are useful for comparing quantities corresponding to different groups.
- `sns.heatmap` - **Heatmaps** can be used to find color-coded patterns in tables of numbers.
- `sns.scatterplot` - **Scatter plots** show the relationship between two continuous variables; if color-coded, we can also show the relationship with a third categorical variable.
- `sns.regplot` - Including a **regression line** in the scatter plot makes it easier to see any linear relationship between two variables.

- `sns.lmplot` - This command is useful for drawing multiple regression lines, if the scatter plot contains multiple, color-coded groups.
- `sns.swarmplot` - **Categorical scatter plots** show the relationship between a continuous variable and a categorical variable.

Distribution - We visualize distributions to show the possible values that we can expect to see in a variable, along with how likely they are.

- `sns.distplot` - **Histograms** show the distribution of a single numerical variable.
- `sns.kdeplot` - **KDE plots** (or **2D KDE plots**) show an estimated, smooth distribution of a single numerical variable (or two numerical variables).
- `sns.jointplot` - This command is useful for simultaneously displaying a 2D KDE plot with the corresponding KDE plots for each individual variable.

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