Conditional Plots: Takeaways

Syntax

- Importing the seaborn module:

```
import seaborn as sns
```

- Creating a distribution plot:

```
sns.distplot(titanic['Fare'])
```

- Creating a kernel density plot:

```
sns.kdeplot(titanic['Fare'])
```

- Shading underneath the curve of a kernel density plot:

```
sns.kdeplot(titanic['Fare'], shade=True)
```

- Setting the Seaborn Style Sheet:

```
sns.set_style("white")
```

- Removing the Spines
    - Default: Only top and right Spines are removed.

```
sns.despine(left=True, bottom=True)
```

- Generating a grid of data containing a subset of the data for different values:

```
g = sns.Facetgrid(titanic, col = "Pclass", size = 6)
```

- Generating a grid of data with multiple subsets of the data:

```
g = sns.Facetgrid(titanic, col = "Pclass", row = "Survived", size = 6)
```

- Adding different colors for unique values using hue:

```
g = sns.Facetgrid(titanic, col = "Pclass", row = "Survived", hue = "Sex", size = 6)
```

- Using a grid of data and mapping it onto a Seaborn object:

```
g.map(sns.kdeplot, "Age", shade=True)
```

- Adding a legend to the grid of data:

```
g.add_legend()
```

Concepts

- Seaborn:
    - Is built on top of matplotlib.
    - Has good support for more complex plots.
    - Attractive default styles.
    - Integrates well with the pandas library.
- Seaborn creates a matplotlib figure or adds to the current existing figure.

- Seaborn stylesheets:
    - `darkgrid` : Coordinate grid displayed, dark background color.
    - `whitegrid` : Coordinate grid displayed, white background color.
    - `dark` : Coordinate grid hidden, dark background color.
    - `white` : Coordinate grid hidden, white background color.
    - `ticks` : Coordinate grid hidden, white background color, ticks visible.

Resources

- Different Seaborn Plots
- 3D Surface Plots
- Why is Seaborn sns