

# Conditional Plots: Takeaways

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## 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](#)



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