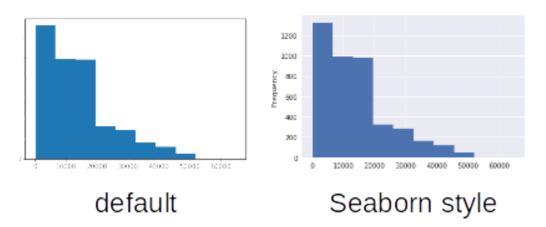
Setting Styles

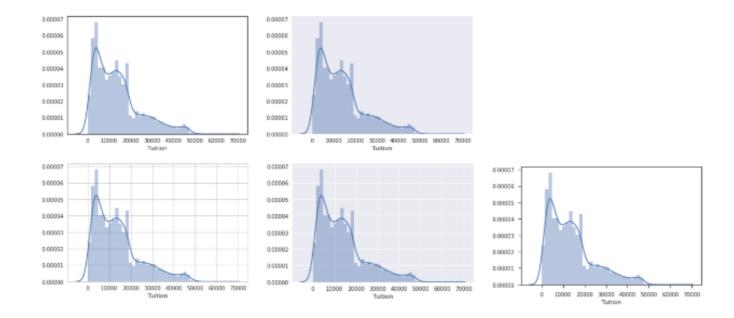
- Seaborn has default configurations that can be applied with sns.set()
- These styles can override matplotlib and pandas plots as well

```
sns.set()
df['Tuition'].plot.hist()
```

Pandas histogram



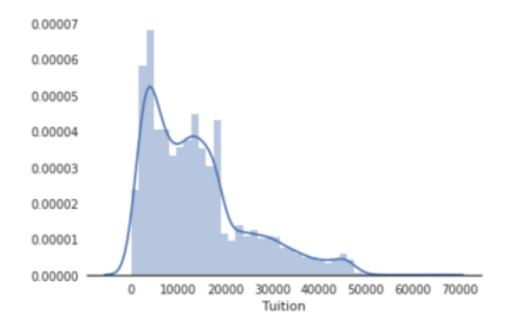
Theme examples with sns.set_style()



Removing axes with despine()

- Sometimes plots are improved by removing elements
- Seaborn contains a shortcut for removing the spines of a plot

```
sns.set_style('white')
sns.distplot(df['Tuition'])
sns.despine(left=True)
```





Let's practice!

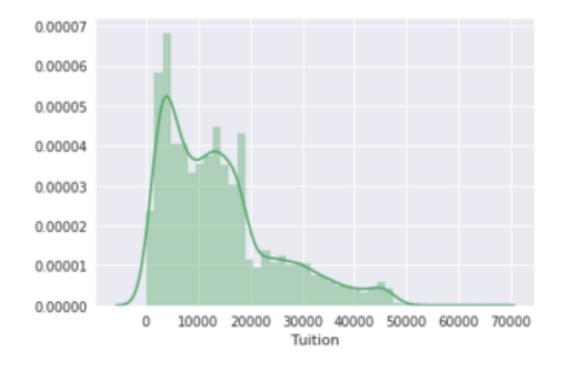
INTERMEDIATE DATA VISUALIZATION WITH SEABORN



Defining a color for a plot

Seaborn supports assigning colors to plots using matplotlib color codes

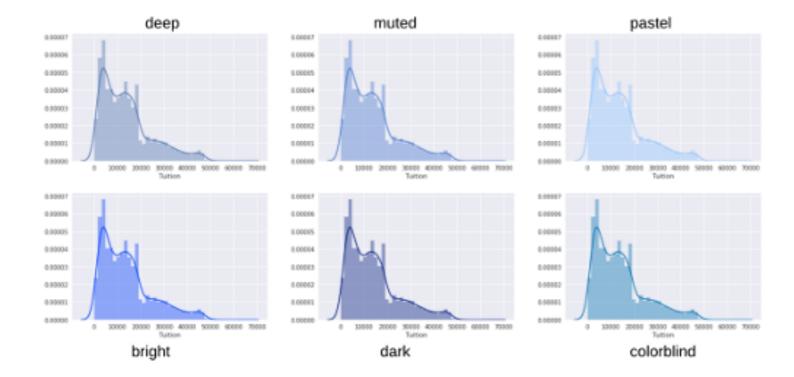
```
sns.set(color_codes=True)
sns.distplot(df['Tuition'], color='g')
```



Palettes

• Seaborn uses the set_palette() function to define a palette

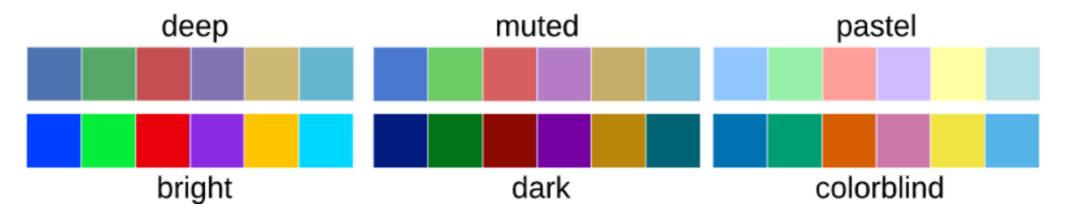
```
for p in sns.palettes.SEABORN_PALETTES:
    sns.set_palette(p)
    sns.distplot(df['Tuition'])
```



Displaying Palettes

- sns.palplot() function displays a palette
- sns.color_palette() returns the current palette

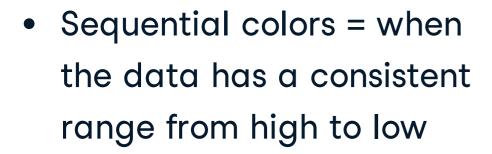
```
for p in sns.palettes.SEABORN_PALETTES:
    sns.set_palette(p)
    sns.palplot(sns.color_palette())
    plt.show()
```





Defining Custom Palettes

 Circular colors = when the data is not ordered



 Diverging colors = when both the low and high values are interesting



Let's practice!

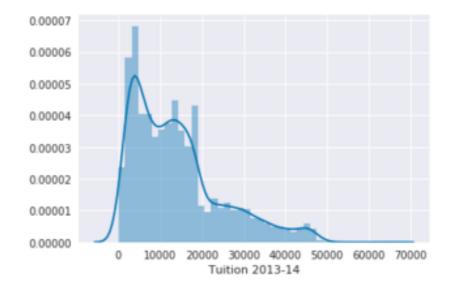
INTERMEDIATE DATA VISUALIZATION WITH SEABORN



Matplotlib Axes

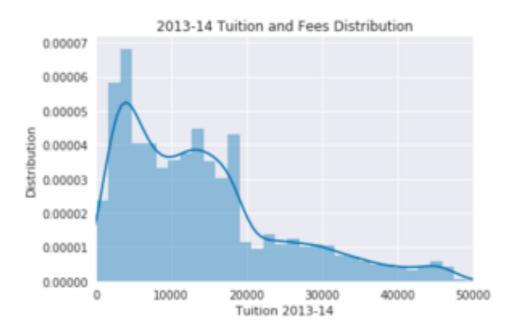
- Most customization available through matplotlib Axes objects
- Axes can be passed to seaborn functions

```
fig, ax = plt.subplots()
sns.distplot(df['Tuition'], ax=ax)
ax.set(xlabel="Tuition 2013-14")
```



Further Customizations

• The axes object supports many common customizations

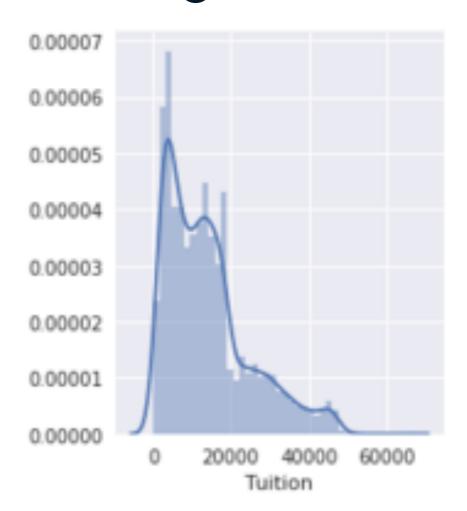


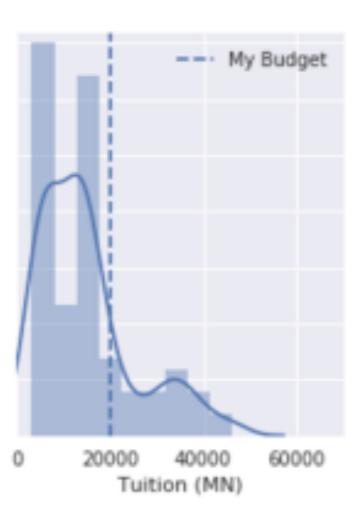
Combining Plots

• It is possible to combine and configure multiple plots

```
fig, (ax0, ax1) = plt.subplots(
nrows=1, ncols=2, sharey=True, figsize=(7,4))
sns.distplot(df['Tuition'], ax=ax0)
sns.distplot(df.query(
'State == "MN"')['Tuition'], ax=ax1)
ax1.set(xlabel="Tuition (MN)", xlim=(0, 70000))
ax1.axvline(x=20000, label='My Budget', linestyle='--')
ax1.legend()
```

Combining Plots





Let's practice!

INTERMEDIATE DATA VISUALIZATION WITH SEABORN

