

# Seaborn Homework

Time to practice your new seaborn skills! Try to recreate the plots below (don't worry about color schemes, just the plot itself).

## The Data

We will be working with a famous titanic data set for these exercises. In the Machine Learning part of the course, we can revisit this data, and use it to predict survival rates of passengers. For now, we'll just focus on the visualization of the data with seaborn:

### 1. import necessary libraries

In [1]:

In [2]:

```
sns.set_style('whitegrid')
```

### 2. load the built-in titanic dataset

In [3]:

### 3. show the first five data

In [4]:

Out[4]:

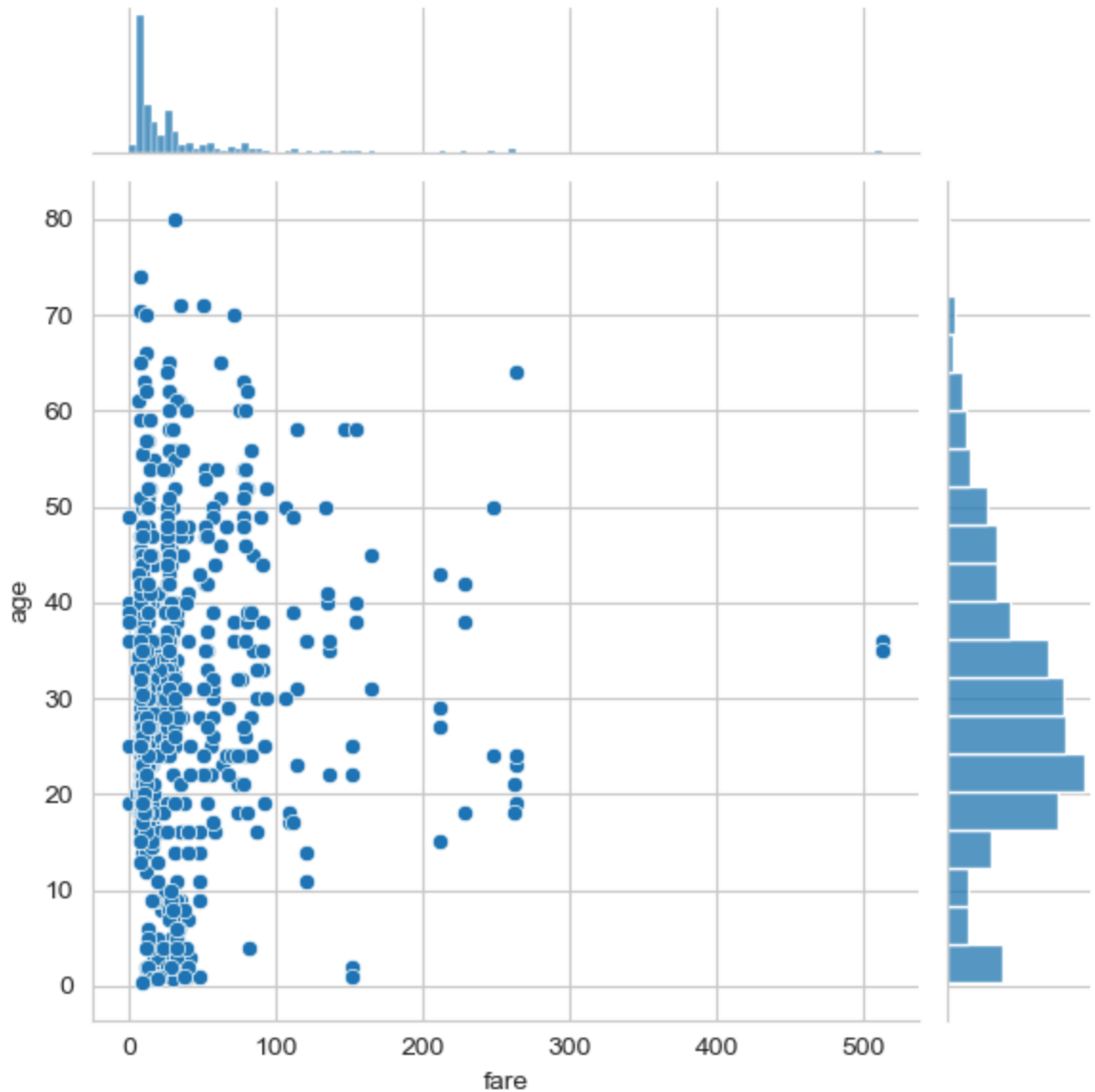
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True

## 4. Plots

Recreate the 7 plots below using the titanic dataframe. There are very few hints since most of the plots can be done with just one or two lines of code and a hint would basically give away the solution. Keep careful attention to the x and y labels for hints.

In [5]:

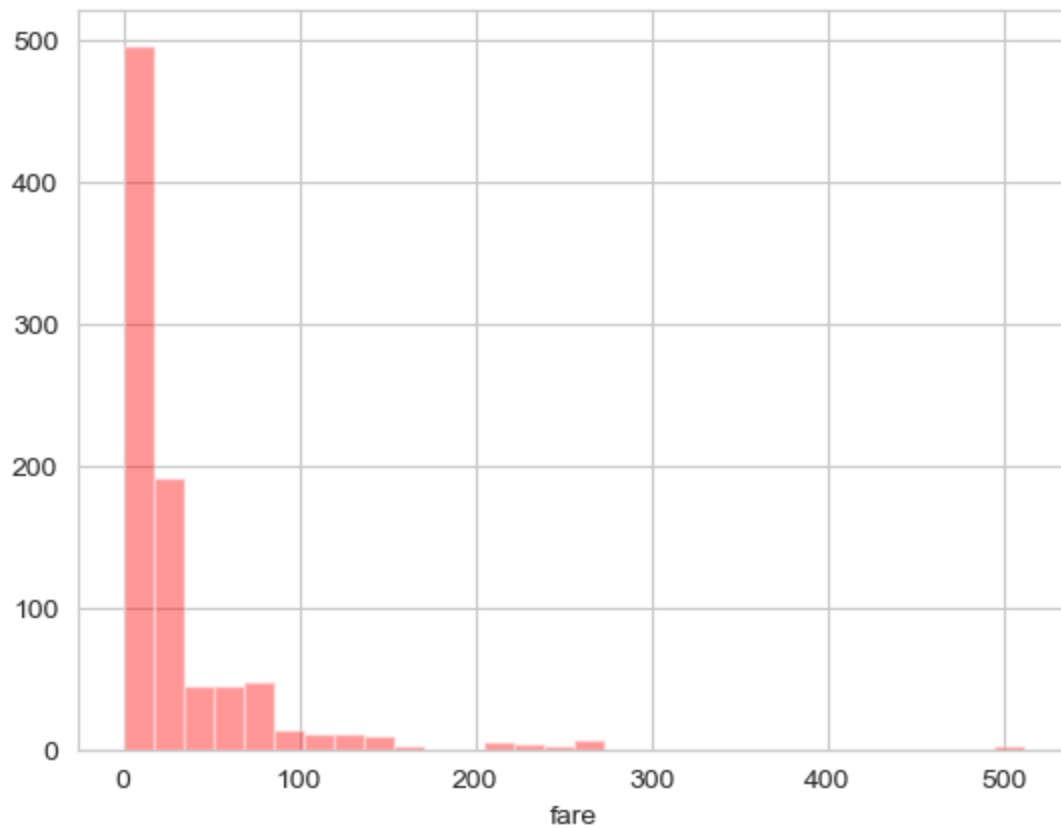
Out[5]: <seaborn.axisgrid.JointGrid at 0x7fcafc3af160>



In [6]:

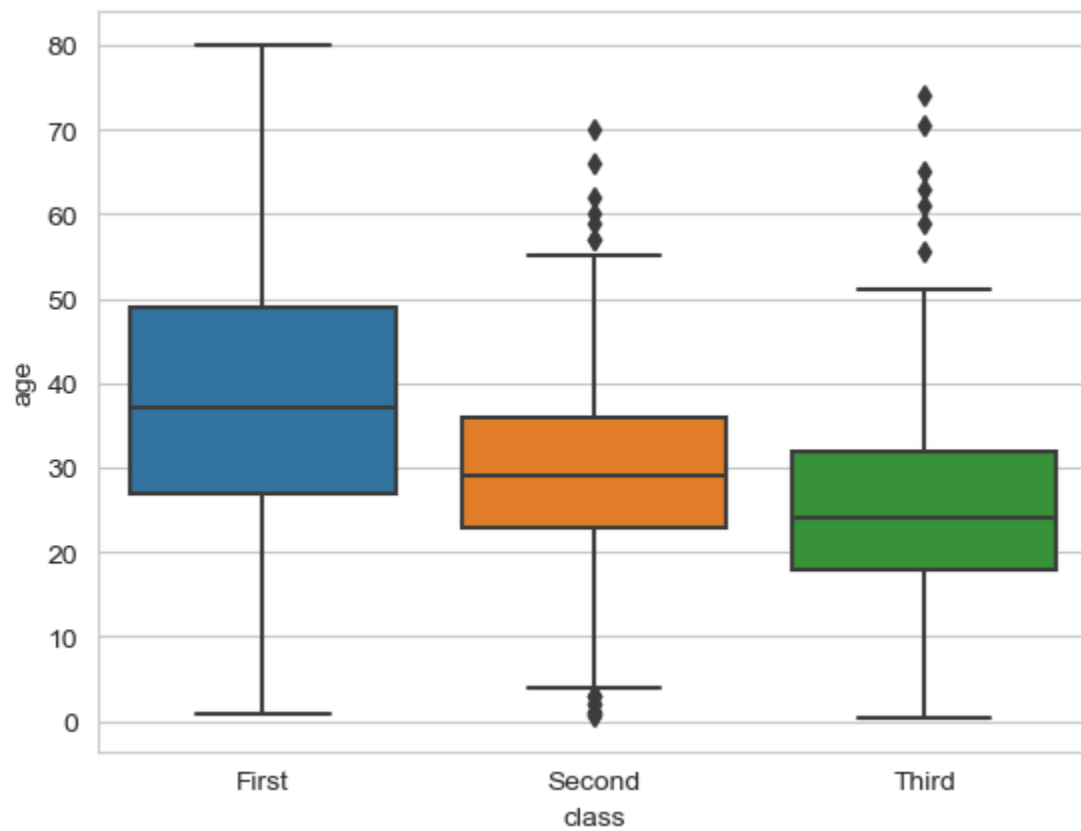
```
/Users/mesutozdogan/opt/anaconda3/lib/python3.9/site-packages/seaborn/distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
  warnings.warn(msg, FutureWarning)
```

Out[6]: <AxesSubplot:xlabel='fare'>



In [7]:

Out[7]: <AxesSubplot:xlabel='class', ylabel='age'>

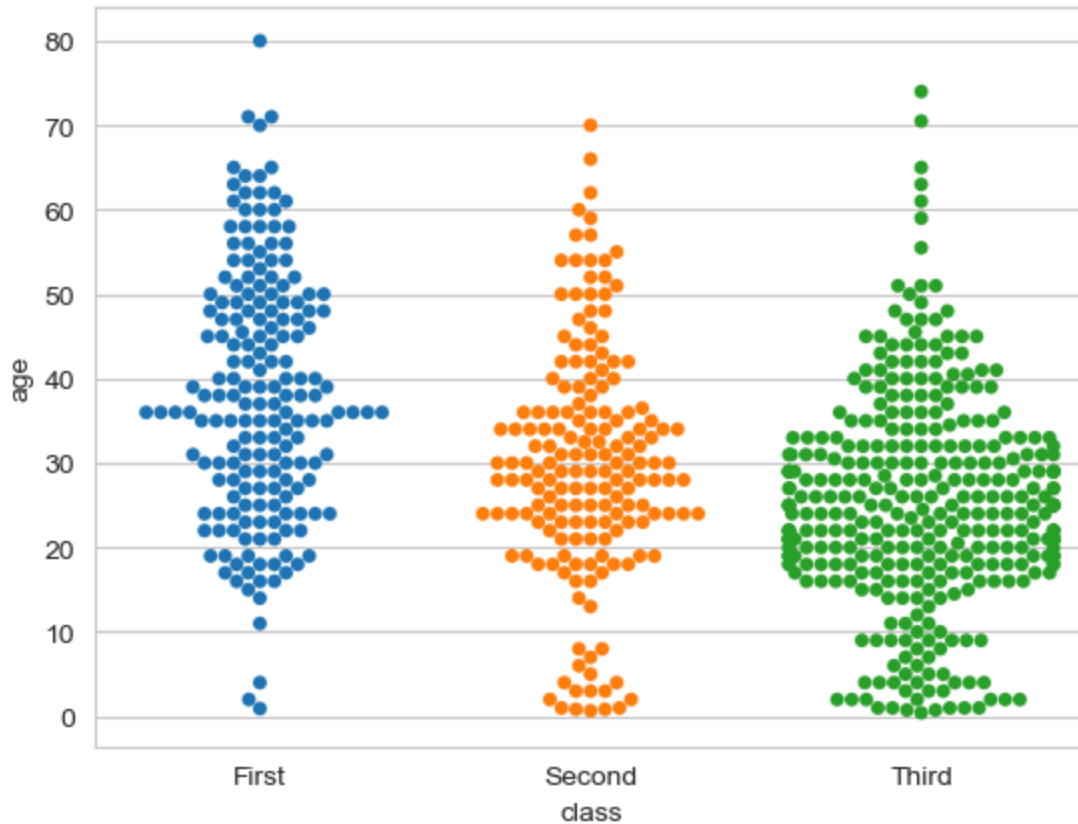


In [8]:

```
/Users/mesutozdog/opt/anaconda3/lib/python3.9/site-packages/seaborn/categorical.py:1296: UserWarning: 11.0% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.  
warnings.warn(msg, UserWarning)
```

Out[8]:

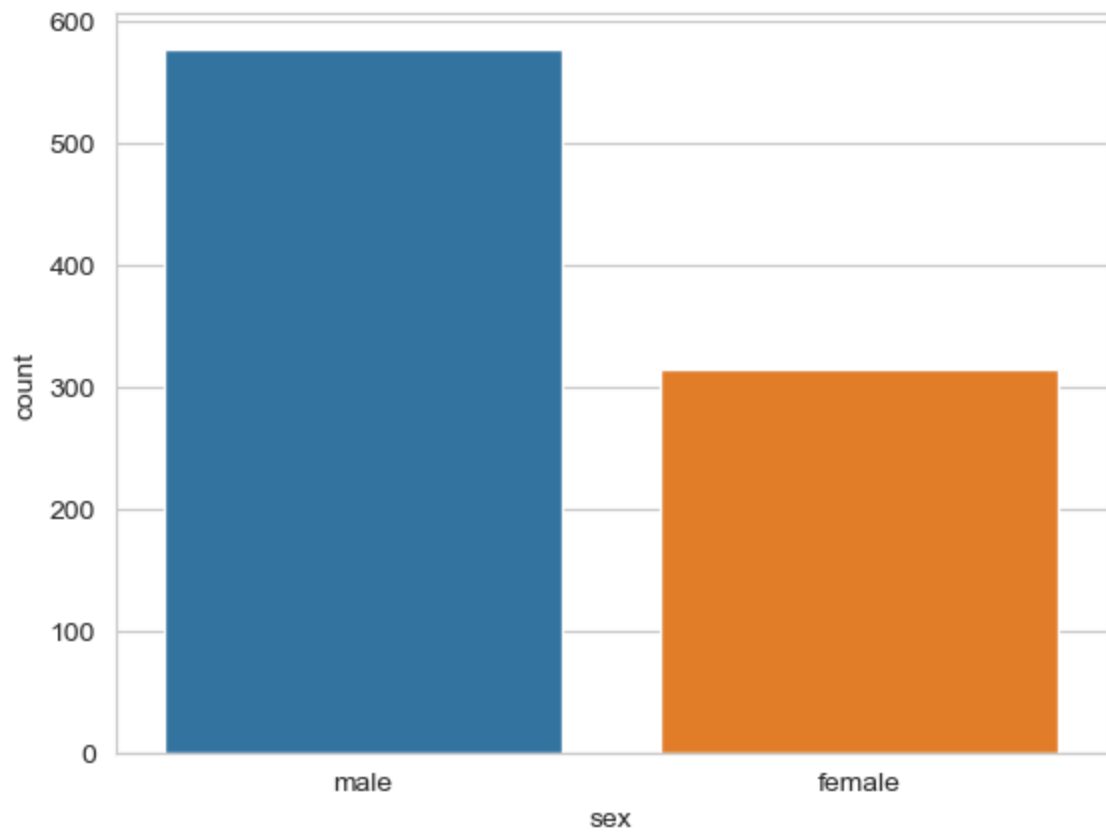
```
<AxesSubplot:xlabel='class', ylabel='age'>
```



In [9]:

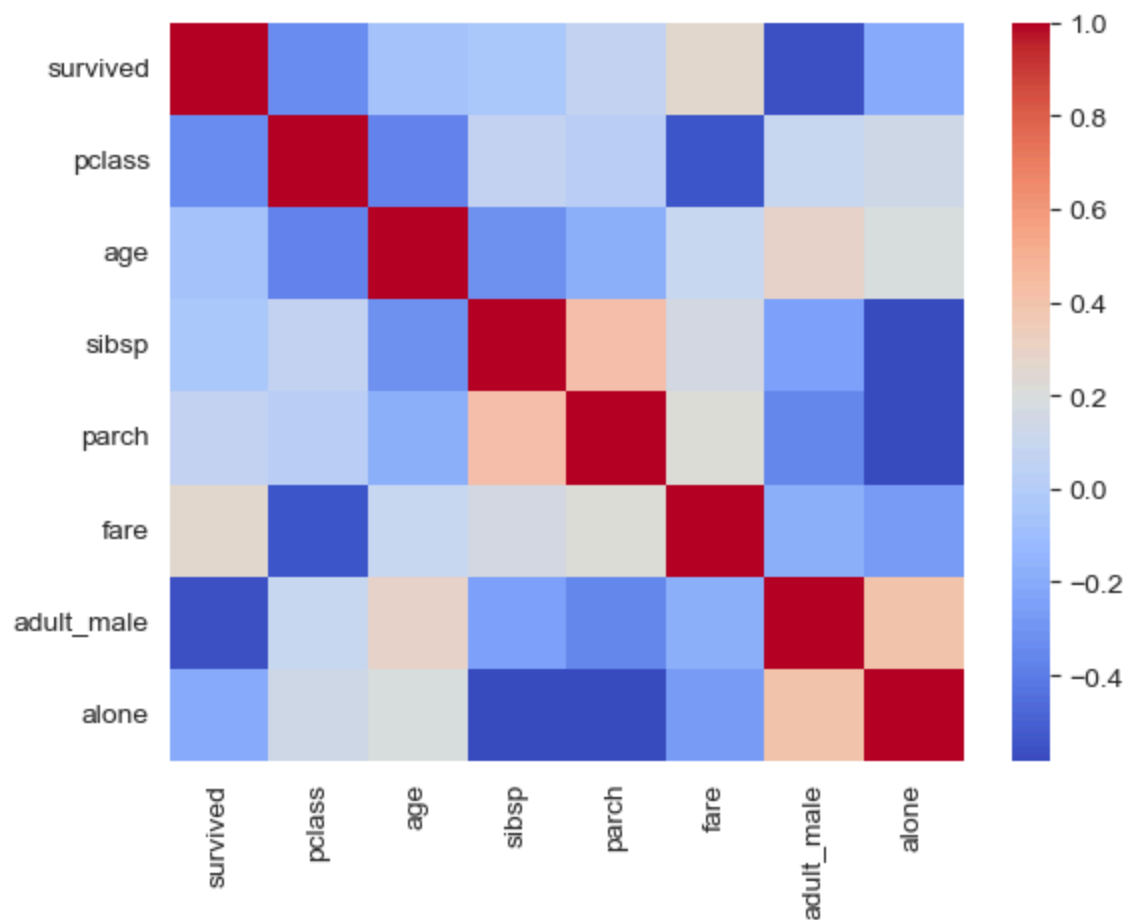
```
<AxesSubplot:xlabel='sex', ylabel='count'>
```

Out[9]:



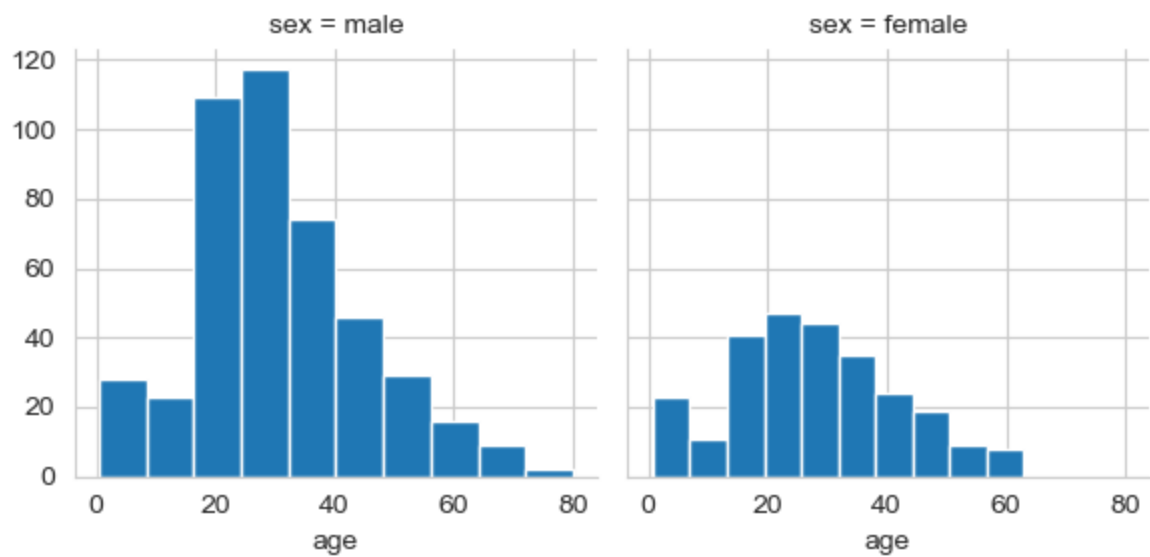
In [10]:

Out[10]: <AxesSubplot:>



In [11]:

Out[11]: &lt;seaborn.axisgrid.FacetGrid at 0x7fcafd0052e0&gt;



# Great Job!

That is it for now! We'll see a lot more of seaborn practice problems in the machine learning section!