## titanic\_project(Seaborn)\_exercise

May 23, 2019

## 1 Seaborn

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In [ ]: import seaborn as sns
In [ ]: tips_df = sns.load_dataset('tips')
        tips_df.head()
In [ ]: tips_df['sex'].value_counts().plot(kind='bar')
1.0.1 factorplot
In [ ]: sns.factorplot('sex', data=tips_df, kind='count')
In [ ]: sns.factorplot('smoker', data=tips_df, kind='count')
In [ ]: sns.factorplot('day', data=tips_df, kind='count')
In [ ]: sns.factorplot('time', data=tips_df, kind='count')
In [ ]: sns.factorplot(x='sex', data=tips_df, kind='count', col='day')
In [ ]: sns.factorplot(x='sex', data=tips_df, kind='count', col='day', col_wrap=2)
In [ ]: sns.factorplot(x='smoker', data=tips_df, kind='count', col='time')
        sns.factorplot(x='smoker', data=tips df, kind='count', row='time')
        sns.factorplot(x='smoker', data=tips_df, kind='count', hue='time')
In []: sns.factorplot('size', data=tips_df, kind='count', hue='sex', order=[1,2,3,4,5,6])
In [ ]: sns.factorplot(x="sex", y="tip", data=tips_df)
In [ ]: sns.factorplot(x="time", y="tip", data=tips_df, col='sex')
In [ ]: sns.factorplot(x="smoker", y="tip", data=tips_df)
In [ ]: sns.jointplot(tips_df['total_bill'],tips_df['tip'])
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2
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In [ ]: sns.load_dataset('titanic').head()
In []: pwd
In []: !dir
In [ ]: import pandas as pd
        from pandas import Series, DataFrame
        titanic_df = pd.read_csv("titanic_data.csv")
In [ ]: titanic_df.head()
In [ ]: titanic_df.info()
In [ ]: titanic_df.describe()
In [ ]: titanic_df.head()
In [ ]: df = sns.load_dataset('titanic')
        df.head()
2.0.1 Who
In [ ]: import numpy as np
        import matplotlib.pyplot as plt
        import seaborn as sns
        %matplotlib inline
In [ ]: titanic_data = df
In [ ]: sns.factorplot('sex', data=titanic_data, kind = 'count')
In []: sns.factorplot('pclass', data=titanic_data, kind='count', order=[1,2,3])
In [ ]: sns.factorplot('pclass', data=titanic_data, kind='count', hue='sex', \
                       order=[1,2,3])
In [ ]: sns.factorplot('sex', data=titanic_data, kind='count', hue='pclass', \
                       hue_order=[1,2,3])
In [ ]: sns.factorplot('pclass', data=titanic_data, kind='count', hue='who', \
                       order=[3,2,1])
In [ ]: titanic_data['age'].hist(bins=70)
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2.0.2 From Where
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In [ ]: titanic data.head()
In [ ]: cabin_df = DataFrame(titanic_data['deck'].dropna())
In [ ]: sns.factorplot('deck', data=cabin_df, kind='count')
In [ ]: sns.factorplot('deck', data=cabin_df, kind='count', \
                       palette='GnBu', order=list('ABCDEFG'))
In [ ]: sns.factorplot('embark_town', data=titanic_data, hue='pclass', \
                       hue_order=[1,2,3], kind='count')
2.0.3 alone
In [ ]: titanic_data.head()
In [ ]: sns.factorplot('alone', data=titanic_data, palette='Blues', kind='count')
2.0.4 survived
In []: # map
        titanic_data['alive'] = titanic_data.survived.map({0: "no", 1:"yes"})
        sns.factorplot('alive', data=titanic_data, kind='count')
In [ ]: sns.factorplot('pclass', 'survived', data=titanic_data, order=[1,2,3])
In [ ]: sns.factorplot('pclass', 'survived', hue='who', \
                       data=titanic_data, order=[1,2,3], dodge=True)
In [ ]: sns.factorplot('who', 'survived', hue='pclass', \
                       data=titanic_data, dodge=True, hue_order=[1,2,3])
In [ ]: sns.lmplot('age', 'survived', data=titanic_data)
In []: sns.lmplot('age', 'survived', hue='pclass', \
                   data=titanic_data, hue_order=[1,2,3])
In [ ]: # grouping..
        generations=[10,20,40,60,80]
        sns.lmplot('age', 'survived', hue='pclass', \
                   data=titanic_data,palette='winter',\
                   hue\_order=[1,2,3])
In []: sns.lmplot('age', 'survived', hue='sex', \
                   data=titanic_data, palette='winter')
In []:
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