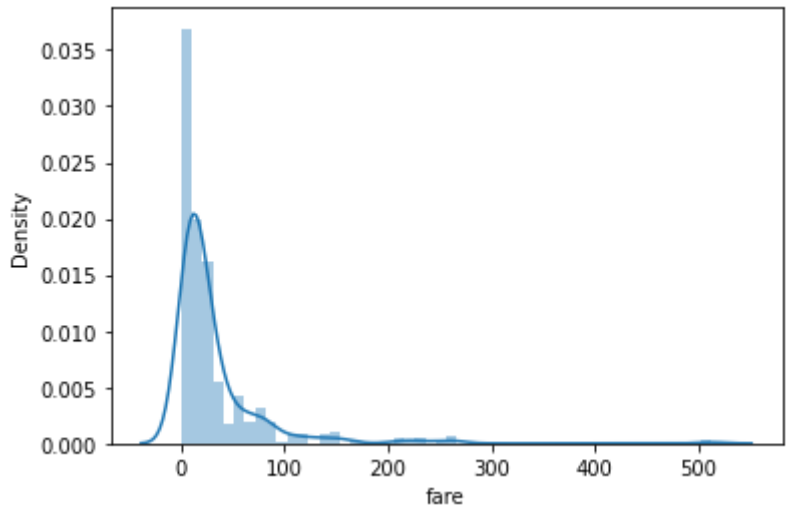
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
# Seaborn library can be used to draw a variety of charts su
# regression plots
import seaborn as sns


dataset = sns.load_dataset('titanic')
dataset.head()
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	wh
0	0	3	male	22.0	1	0	7.2500	S	Third	ma
1	1	1	female	38.0	1	0	71.2833	C	First	woma
2	1	3	female	26.0	0	0	7.9250	S	Third	woma
3	1	1	female	35.0	1	0	53.1000	S	First	woma
4	0	3	male	35.0	0	0	8.0500	S	Third	ma

```
sns.distplot(dataset['fare'])
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Futur
  warnings.warn(msg, FutureWarning)
<matplotlib.axes._subplots.AxesSubplot at 0x7f51ae481750>
```

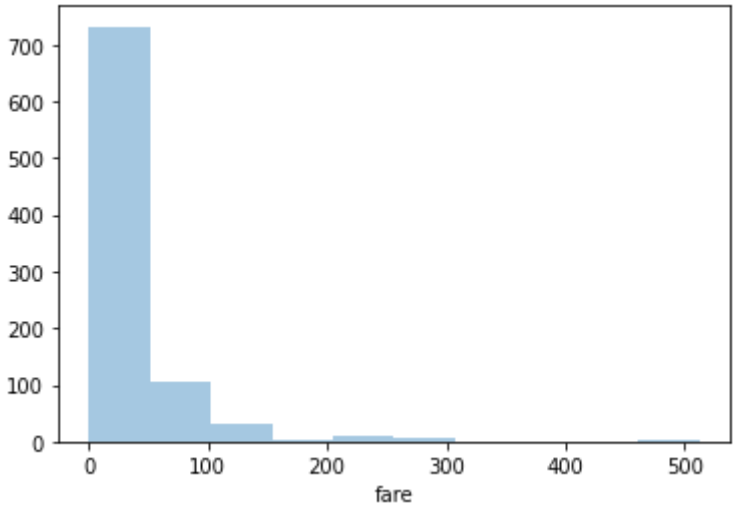



```
# to remove kernel density estimation line use kde = False
sns.distplot(dataset['fare'], kde=False)
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Futur
  warnings.warn(msg, FutureWarning)
<matplotlib.axes._subplots.AxesSubplot at 0x7f51ac295a10>
```

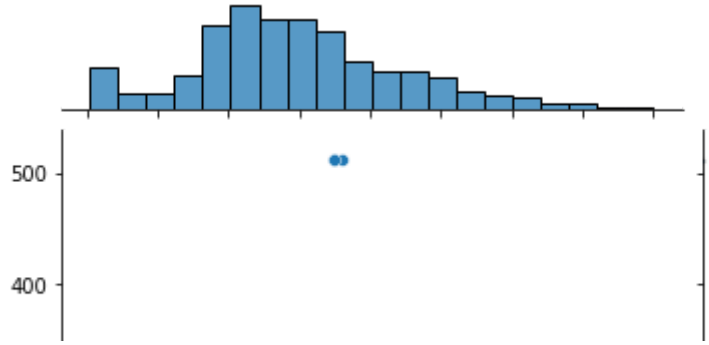

```
# sort individual data values in classes of bins
sns.distplot(dataset['fare'], kde=False, bins=10)
```

```
/usr/local/lib/python3.7/dist-packages/seaborn/distributions.py:2619: Futur
  warnings.warn(msg, FutureWarning)
<matplotlib.axes._subplots.AxesSubplot at 0x7f51abd6e990>
```



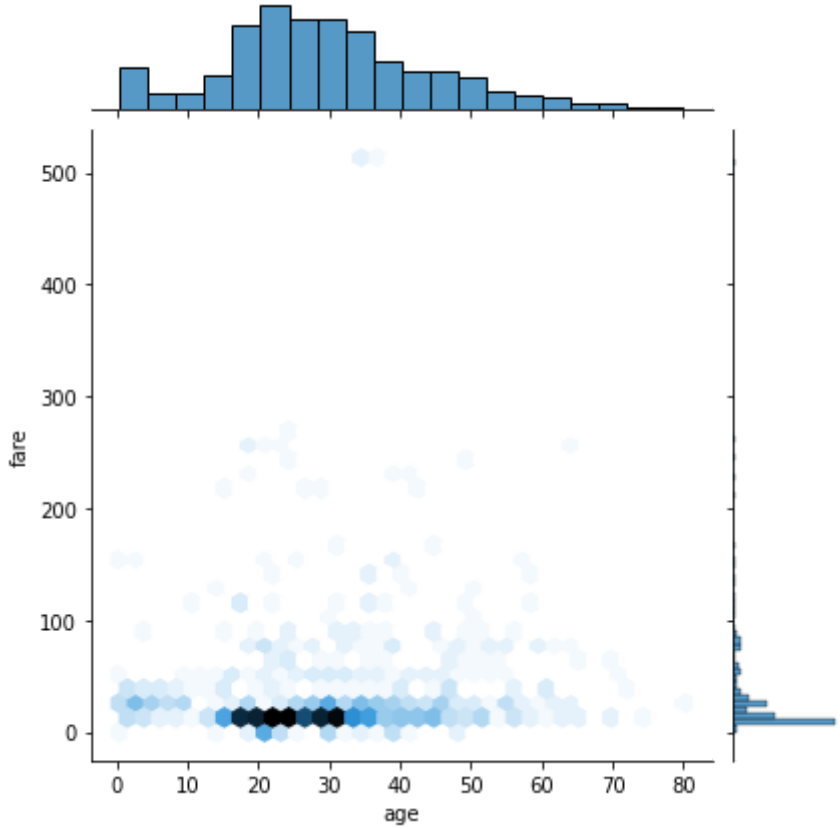

```
# display the mutual distribution of each column
sns.jointplot(x='age', y='fare', data=dataset)
```

```
<seaborn.axisgrid.JointGrid at 0x7f51abce8710>
```




```
# for hexagonal design of plot
sns.jointplot(x='age', y='fare', data=dataset, kind='hex')
```

```
<seaborn.axisgrid.JointGrid at 0x7f51abce9410>
```



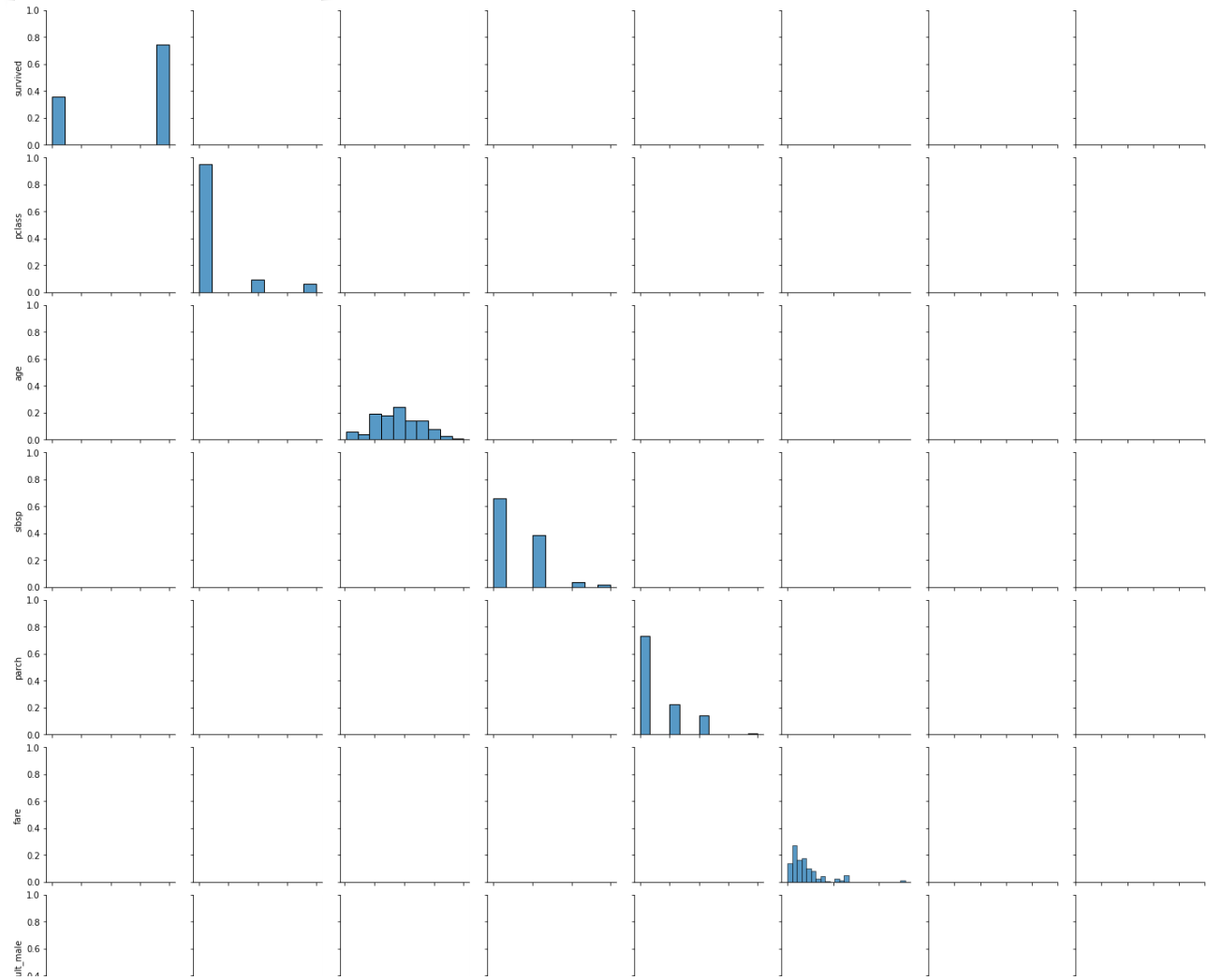

```
dataset = dataset.dropna()


# pairplot plots a joint plot for all the possible
# combination of numeric and Boolean columns

sns.pairplot(dataset)
```

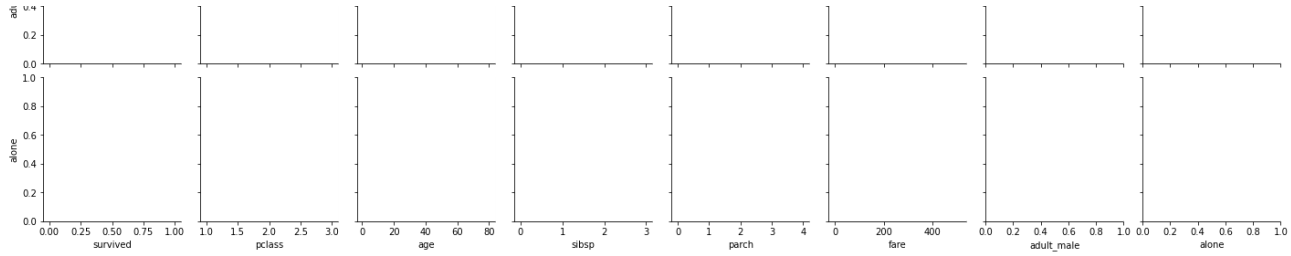
```
---------------------------------------------------------------------------
KeyError                                  Traceback (most recent call last)
/usr/local/lib/python3.7/dist-packages/numpy/lib/histograms.py in
_unsigned_subtract(a, b)
    350     try:
--> 351         dt = signed_to_unsigned[dt.type]
    352     except KeyError:

KeyError: <class 'numpy.bool_'>

During handling of the above exception, another exception occurred:

TypeError                                 Traceback (most recent call last)
```

15 frames

```
<__array_function__ internals> in histogram_bin_edges(*args, **kwargs)

/usr/local/lib/python3.7/dist-packages/numpy/lib/histograms.py in
_unsigned_subtract(a, b)
    351         dt = signed_to_unsigned[dt.type]
    352     except KeyError:
--> 353         return np.subtract(a, b, dtype=dt)
    354     else:
    355         # we know the inputs are integers, and we are deliberately
casting

TypeError: numpy boolean subtract, the `-` operator, is not supported, use
the bitwise_xor, the `^` operator, or the logical_xor function instead.
```

SEARCH STACK OVERFLOW

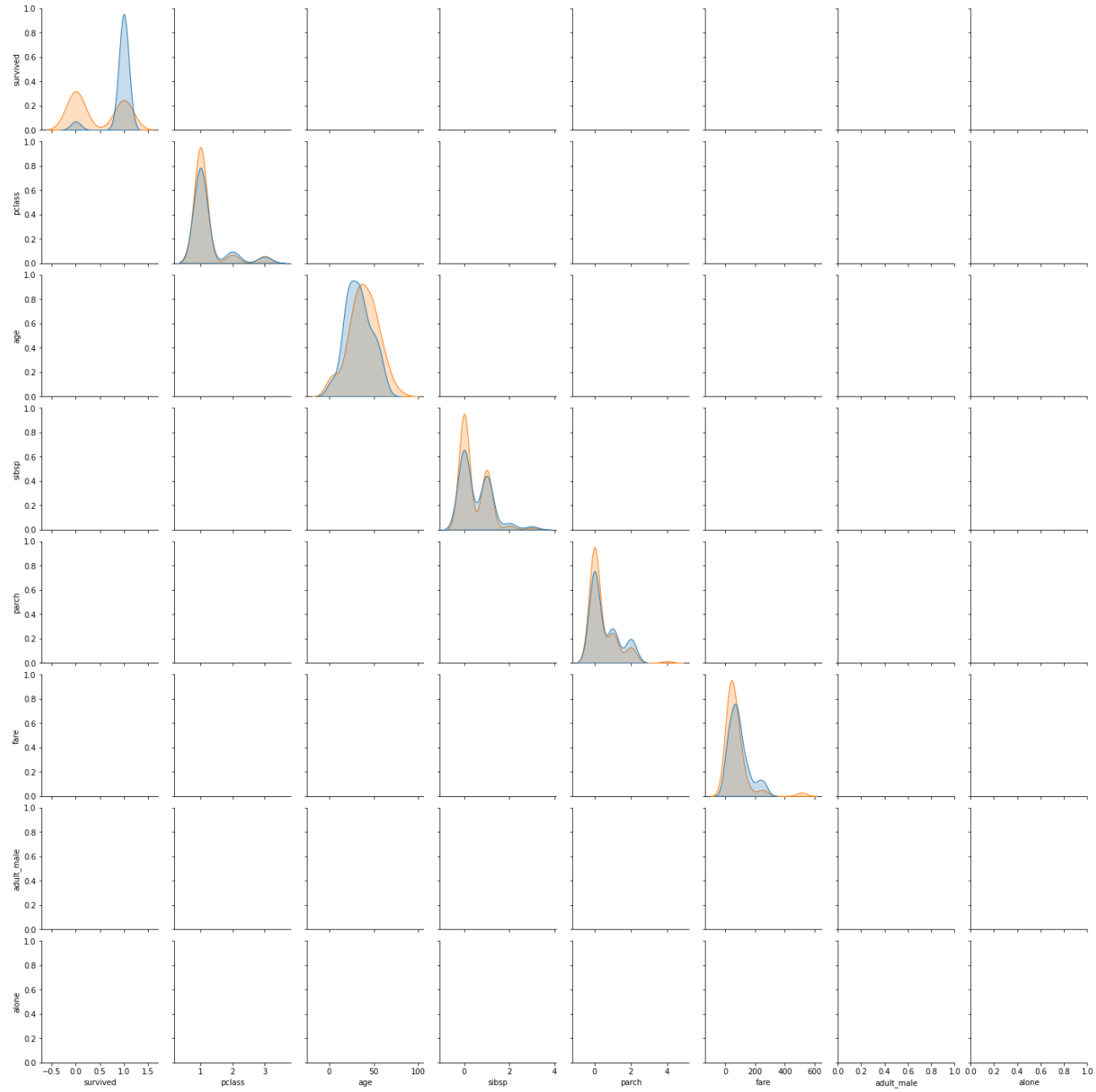





```
sns.pairplot(dataset, hue='sex')
```

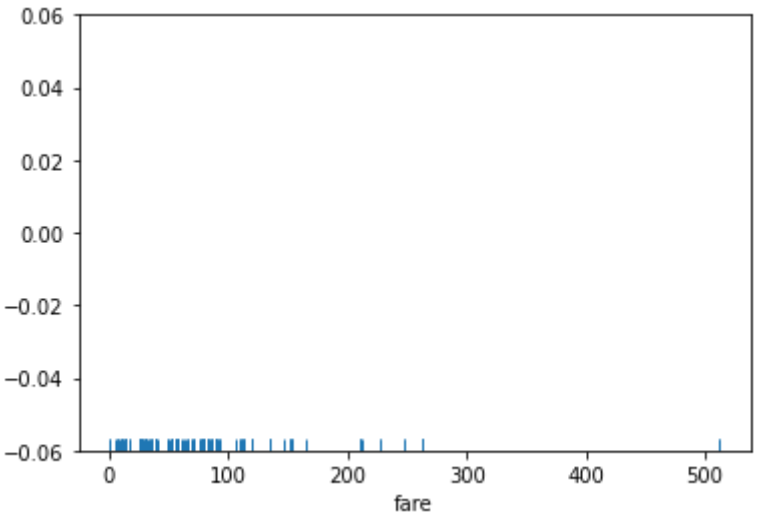
```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-14-35ffbbc0d2e4> in <module>()
----> 1 sns.pairplot(dataset, hue='sex')

16 frames
/usr/local/lib/python3.7/dist-packages/scipy/_lib/_util.py in
_asarray_validated(a, check_finite, sparse_ok, objects_ok, mask_ok,
as_inexact)
    247     if not objects_ok:
    248         if a.dtype is np.dtype('O'):
--> 249             raise ValueError('object arrays are not supported')
    250     if as_inexact:
    251         if not np.issubdtype(a.dtype, np.inexact):

ValueError: object arrays are not supported
```

SEARCH STACK OVERFLOW



```
# rugplot() is used to draw small bars along x-axis for each
sns.rugplot(dataset['fare'])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f51a4694350>
```



✓ 0s completed at 18:45