

In [1]:

```
%matplotlib inline
import matplotlib.pyplot as plt
from IPython.display import Math, Latex
from IPython.core.display import Image

import seaborn as sns
sns.set(color_codes=True)
sns.set(rc={'figure.figsize': (5,5)})
```

In [2]:

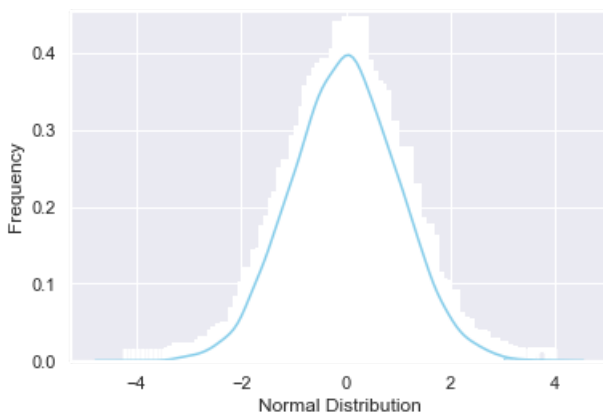
```
#NORMAL DISTRIBUTION
from scipy.stats import norm
data_normal = norm.rvs(size=10000, loc=0, scale=1)

ax = sns.distplot(data_normal,
                  bins=100,
                  kde=True,
                  color='skyblue',
                  hist_kws={"linewidth": 15, 'alpha':1})
ax.set(xlabel='Normal Distribution', ylabel='Frequency')

[Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Normal Distribution')]
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-2-389a4234aa7c> in <module>
    10 ax.set(xlabel='Normal Distribution', ylabel='Frequency')
    11
--> 12 [Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Normal Distribution')]
```

NameError: name 'Text' is not defined



In [3]:

```
#Exponential Distribution
from scipy.stats import expon
data_expon = expon.rvs(scale=1, loc=0, size=1000)

ax = sns.distplot(data_expon,
                  kde=True,
                  bins=100,
                  color='skyblue',
                  hist_kws={"linewidth": 15, 'alpha':1})
ax.set(xlabel='Exponential Distribution', ylabel='Frequency')

[Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Exponential Distribution')]
```

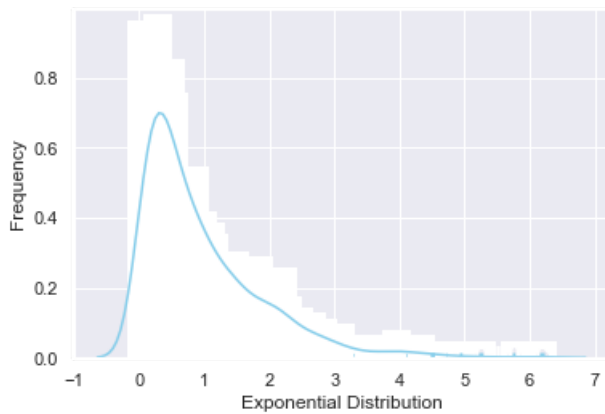
```
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NameError                                Traceback (most recent call last)
<ipython-input-3-24191d86d6ac> in <module>
    10 ax.set(xlabel='Exponential Distribution', ylabel='Frequency')
```

```

10 unlabelled = ExponentialDistribution(1, 1000)
11
--> 12 [Text(0, 0.5, 'Frequency'), Text(0.5, 0, 'Exponential Distribution')]

```

NameError: name 'Text' is not defined



In [4]:

```

#Chi Square Distribution
from numpy import random

x = random.chisquare(df=2, size=(2, 3))

print(x)

from numpy import random
import matplotlib.pyplot as plt
import seaborn as sns

sns.distplot(random.chisquare(df=1, size=1000), hist=False)

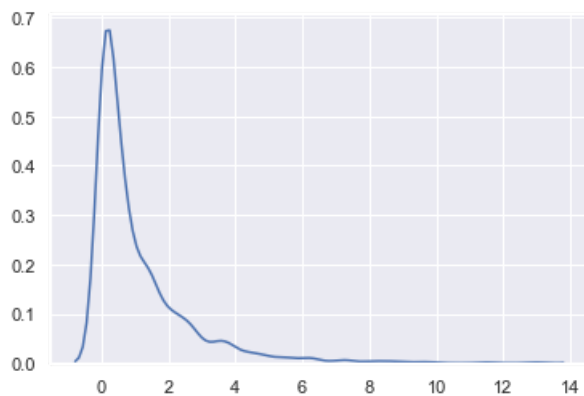
plt.show()

```

```

[[2.13992091 1.60848929 3.36501729]
 [2.56359576 3.51561798 1.00605695]]

```



In []: