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Rayleigh Distribution

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Rayleigh Distribution

Rayleigh distribution is used in signal processing.

It has two parameters:

`scale` - (standard deviation) decides how flat the distribution will be default 1.0).

`size` - The shape of the returned array.

Example

Get your own Python Server

Draw out a sample for rayleigh distribution with scale of 2 with size 2x3:

```python
from numpy import random

x = random.rayleigh(scale=2, size=(2, 3))

print(x)
```
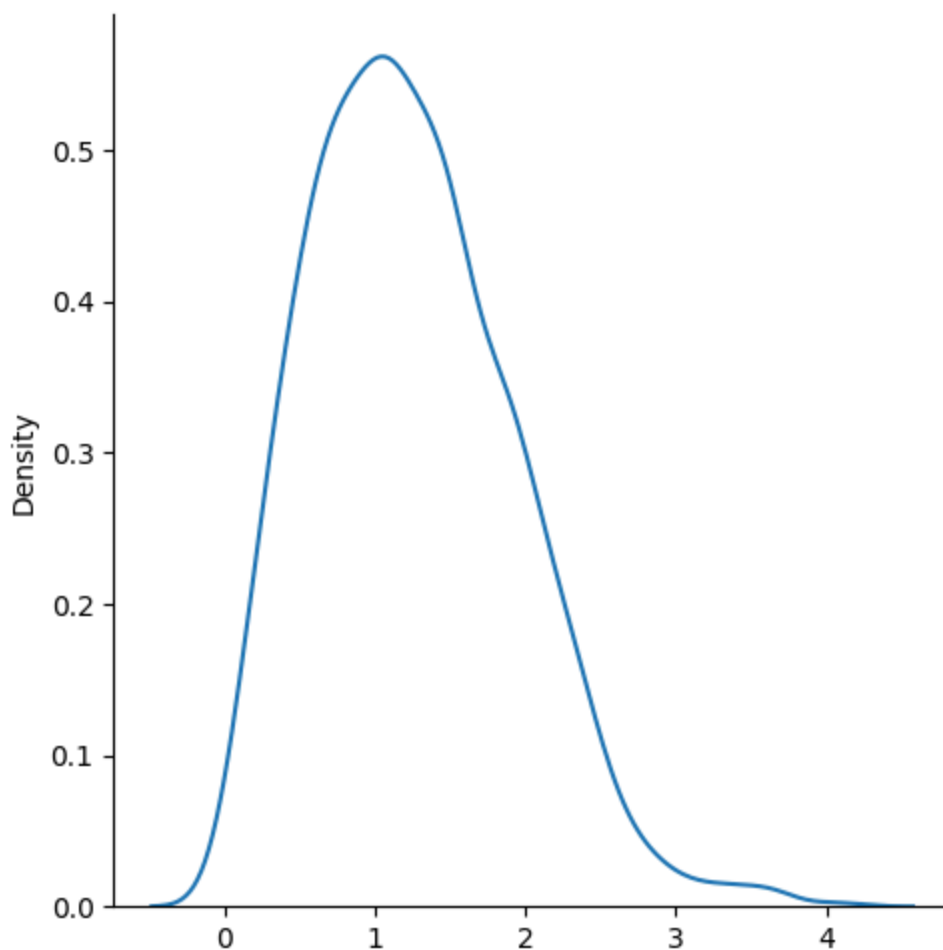
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Example

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

sns.displot(random.rayleigh(size=1000), kind="kde")

plt.show()
```

Result

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Distribution

At unit stddev and 2 degrees of freedom rayleigh and chi square represent the same
distributions.

Exercise [?]

The `random.rayleigh()` method has two parameters, which ones?

○   `n and size`

○   `df and size`

○   `scale and size`

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