Examples (/examples) > Python Plots (/examples/python-plots) > Logarithmic Axes

%2F54ea55a96e8e238aif85xa906a%2fFV%2f6%2ff2%2fe8tehiplateiNalmeritogaifithmic%20Axes&compiler=pdflatex)

: Axes)

scales on either one of the axes or both of them. It is even possible to use a different base on each axes.

First, the required modules are imported. The array-manipulation module **numpy** and the matplotlib submodule **pyplot**, to plot 2d graphics. The corresponding aliases np and plt for these two modules are widely used python conventions. The numbers in array t are the points to plot on the x-axis.

```
import numpy as np
import matplotlib.pyplot as plt

t = np.arange(0.01, 20.0, 0.01)
```

Logarithmic Scale On The y Axis

The command semilogy will enable logarithmic scale on the y-axis, the additional option basey can be used to manually set the logarithm base

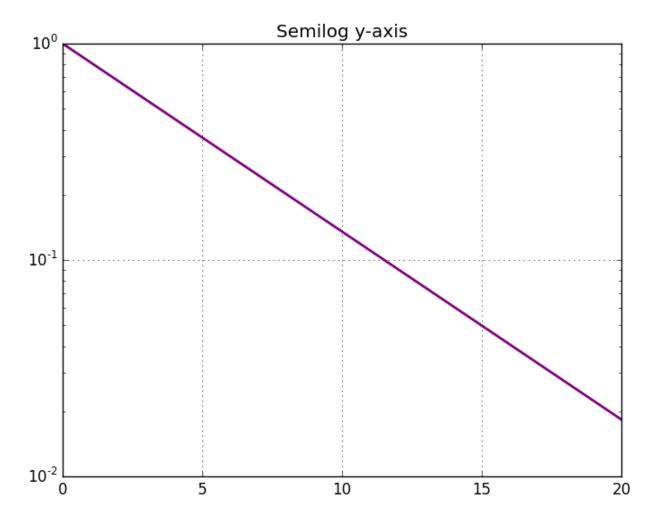
Logarithmic Scale On The x Axis

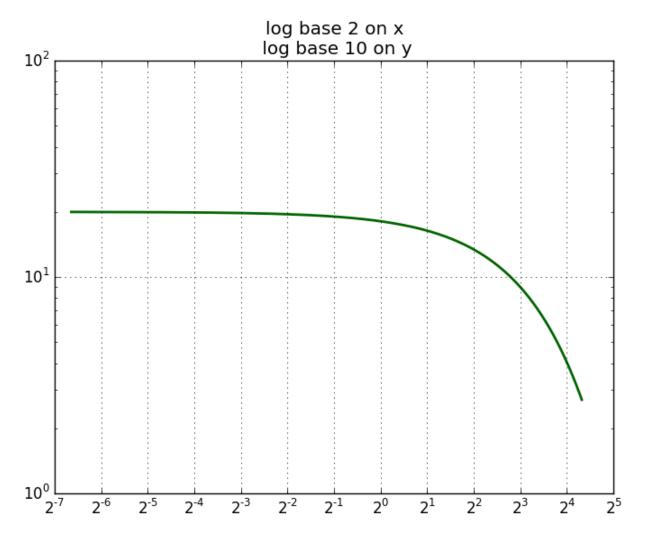
The command semilogx will enable logarithmic scale on the y-axis, the additional option basex manually sets the logarithm base to use.

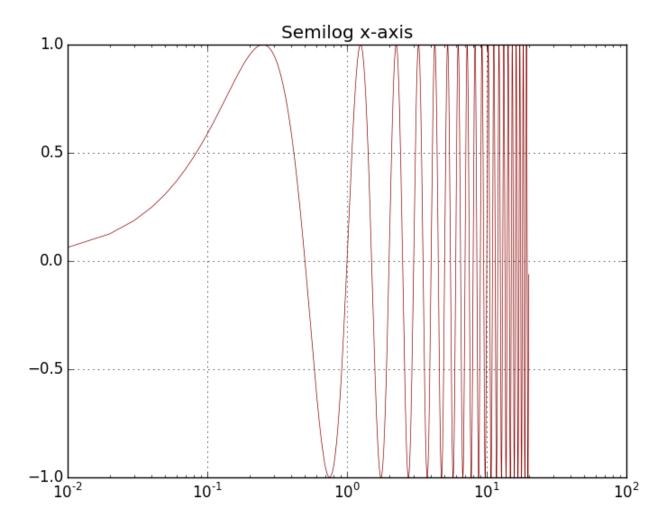
Logarithmic Scale On Both Axes

The command loglog() will use logarithmic scales on both axes, the base for each axes can be set with the basex and basey parameters.

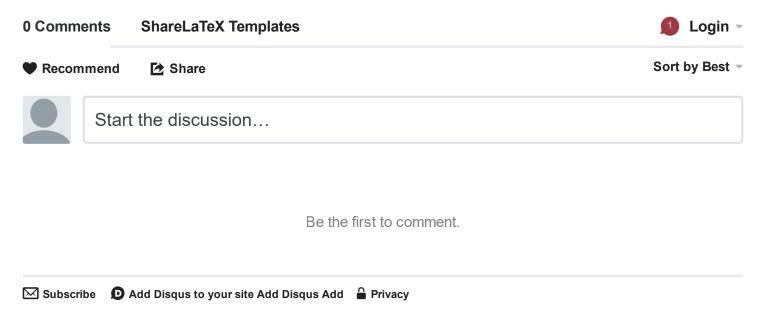
Output







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