Content with notebooks

Simon Kamerling

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You can also create content with Jupyter Notebooks. This means that you can include code blocks and their outputs in your book.

CHAPTER

ONE

MARKDOWN + NOTEBOOKS

As it is markdown, you can embed images, HTML, etc into your posts!

You an also add_{math} and

$$math^{blocks}$$

or

$$\text{mean}la_{tex}$$

$$mathblocks$$

But make sure you \$Escape \$your \$dollar signs \$you want to keep!

CHAPTER

TWO

MYST MARKDOWN

MyST markdown works in Jupyter Notebooks as well. For more information about MyST markdown, check out the MyST guide in Jupyter Book, or see the MyST markdown documentation.

CHAPTER

THREE

CODE BLOCKS AND OUTPUTS

Jupyter Book will also embed your code blocks and output in your book. For example, here's some sample Matplotlib code:

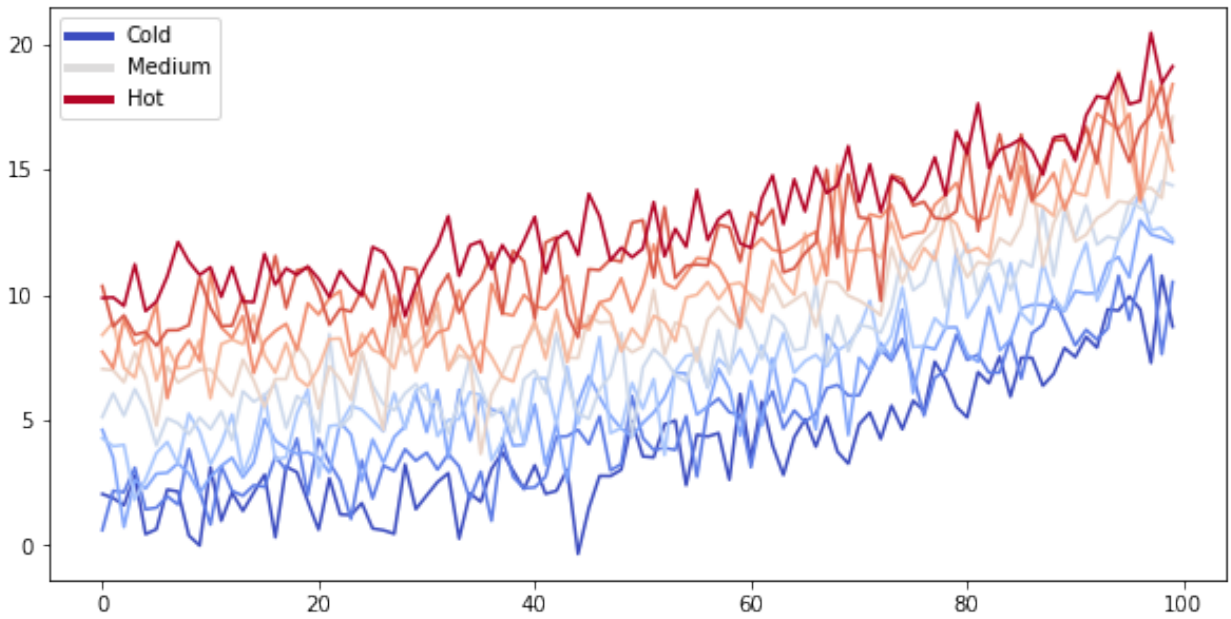
```
from matplotlib import rcParams, cycler
import matplotlib.pyplot as plt
import numpy as np
plt.ion()
```

```
# Fixing random state for reproducibility
np.random.seed(19680801)

N = 10
data = [np.logspace(0, 1, 100) + np.random.randn(100) + ii for ii in range(N)]
data = np.array(data).T
cmap = plt.cm.coolwarm
rcParams['axes.prop_cycle'] = cycler(color=cmap(np.linspace(0, 1, N)))


from matplotlib.lines import Line2D
custom_lines = [Line2D([0], [0], color=cmap(0.), lw=4),
                Line2D([0], [0], color=cmap(.5), lw=4),
                Line2D([0], [0], color=cmap(1.), lw=4)]

fig, ax = plt.subplots(figsize=(10, 5))
lines = ax.plot(data)
ax.legend(custom_lines, ['Cold', 'Medium', 'Hot']);
```



There is a lot more that you can do with outputs (such as including interactive outputs) with your book. For more information about this, see the Jupyter Book documentation