Toggle navigation sidebar

Toggle in-page Table of Contents

# 

[**My sample book**](http://docs.google.com/index.html)

* [Welcome to your Jupyter Book](http://docs.google.com/intro.html)
* [Markdown Files](http://docs.google.com/markdown.html)
* [Content with notebooks](#gjdgxs)
* [Notebooks with MyST Markdown](http://docs.google.com/markdown-notebooks.html)

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*  [Binder](https://mybinder.org/v2/gh/executablebooks/jupyter-book/master?urlpath=tree/docs/notebooks.ipynb)
* [repository](https://github.com/executablebooks/jupyter-book)
* [open issue](https://github.com/executablebooks/jupyter-book/issues/new?title=Issue+on+page+/notebooks.html&body=Your+issue+content+here.)
* [.ipynb](http://docs.google.com/_sources/notebooks.ipynb)
* .pdf

Contents

* [Markdown + notebooks](#30j0zll)
* [MyST markdown](#1fob9te)
* [Code blocks and outputs](#3znysh7)

Content with notebooks

## Contents

* [Markdown + notebooks](#30j0zll)
* [MyST markdown](#1fob9te)
* [Code blocks and outputs](#3znysh7)

# Content with notebooks[**#**](#2et92p0)

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

## Markdown + notebooks[**#**](#30j0zll)

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



You can also \(add\_{math}\) and

\[ math^{blocks} \]

or

\[\begin{split} \begin{aligned} \mbox{mean} la\_{tex} \\ \\ math blocks \end{aligned} \end{split}\]

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

## MyST markdown[**#**](#1fob9te)

MyST markdown works in Jupyter Notebooks as well. For more information about MyST markdown, check out [the MyST guide in Jupyter Book](https://jupyterbook.org/content/myst.html), or see [the MyST markdown documentation](https://myst-parser.readthedocs.io/en/latest/).

## Code blocks and outputs[**#**](#3znysh7)

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](https://jupyterbook.org)

[previous](http://docs.google.com/markdown.html)

[Markdown Files](http://docs.google.com/markdown.html)

[next](http://docs.google.com/markdown-notebooks.html)

[Notebooks with MyST Markdown](http://docs.google.com/markdown-notebooks.html)

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