

交通心理学： 给所有人的安全与职业手册

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Traffic Psychology- Safety For All of US!

This is a small sample book to give you a feel for how book content is structured. It shows off a few of the major file types, as well as some sample content. It does not go in-depth into any particular topic - check out [the Jupyter Book documentation](#) for more information.

Check out the content pages bundled with this sample book to see more.

Markdown Files

Whether you write your book's content in Jupyter Notebooks (`.ipynb`) or in regular markdown files (`.md`), you'll write in the same flavor of markdown called **MyST Markdown**. This is a simple file to help you get started and show off some syntax.

What is MyST?

MyST stands for "Markedly Structured Text". It is a slight variation on a flavor of markdown called "CommonMark" markdown, with small syntax extensions to allow you to write **roles** and **directives** in the Sphinx ecosystem.

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For more about MyST, see [the MyST Markdown Overview](#).

Sample Roles and Directives

Roles and directives are two of the most powerful tools in Jupyter Book. They are kind of like functions, but written in a markup language. They both serve a similar purpose, but **roles are written in one line**, whereas **directives span many lines**. They both accept different kinds of inputs, and what they do with those inputs depends on the specific role or directive that is being called.

Here is a “note” directive:

Note

Here is a note

It will be rendered in a special box when you build your book.

Here is an inline directive to refer to a document: [Notebooks with MyST Markdown](#).

Citations

You can also cite references that are stored in a `bibtex` file. For example, the following syntax:

```
{cite}`holdgraf_evidence_2014`
```

 will render like this: [\[HdHPK14\]](#).

Moreover, you can insert a bibliography into your page with this syntax: The `{bibliography}` directive must be used for all the `{cite}` roles to render properly. For example, if the references for your book are stored in `references.bib`, then the bibliography is inserted with:

[\[HdHPK14\]](#) Christopher Ramsay Holdgraf, Wendy de Heer, Brian N. Pasley, and Robert T. Knight.
Evidence for Predictive Coding in Human Auditory Cortex. In *International Conference on Cognitive Neuroscience*. Brisbane, Australia, Australia, 2014. Frontiers in Neuroscience.

Learn more

This is just a simple starter to get you started. You can learn a lot more at jupyterbook.org.

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Content with notebooks

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

Markdown + notebooks

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

You can also `\(add_{math}\)` and

`\[math^{\text{blocks}} \]`

or

`\[\begin{split} \begin{aligned} \mbox{mean} \ la_{\text{tex}} \ \ \ \text{math blocks} \end{aligned} \end{split}\]`

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

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](#).

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()
```

```
<matplotlib.pyplot._IonContext at 0x1092a0ca0>
```

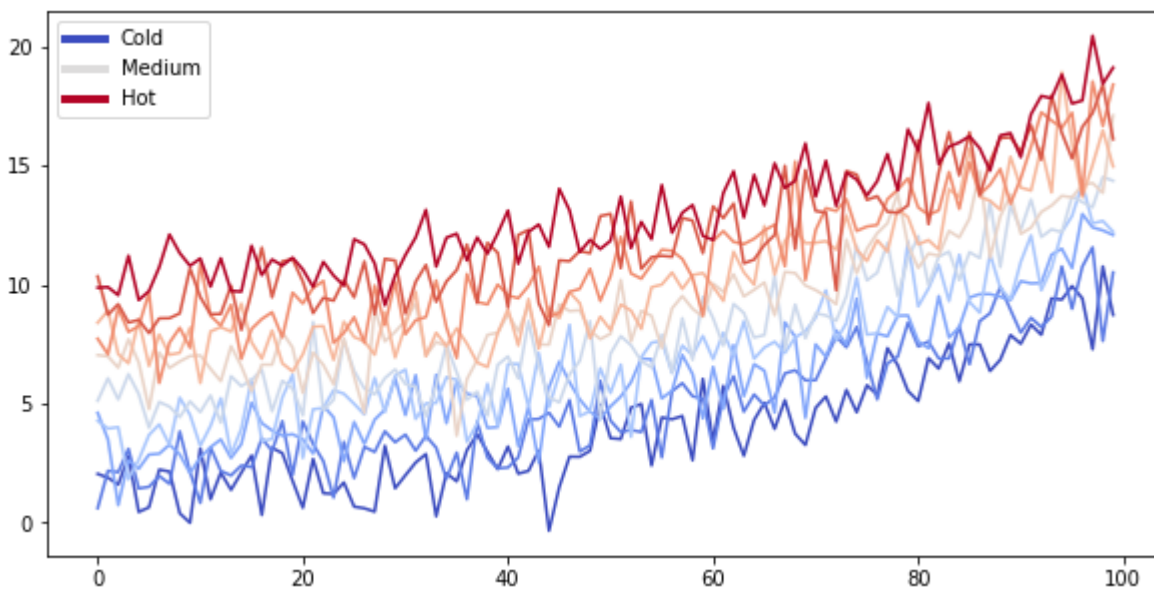
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```
# Fixing random state for reproducibility
np.random.seed(19680801)

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](#)

Notebooks with MyST Markdown

Jupyter Book also lets you write text-based notebooks using MyST Markdown. See [the Notebooks with MyST Markdown documentation](#) for more detailed instructions. This page shows off a notebook written in MyST Markdown.

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An example cell

With MyST Markdown, you can define code cells with a directive like so:

```
print(2 + 2)
```

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When your book is built, the contents of any `{code-cell}` blocks will be executed with your default Jupyter kernel, and their outputs will be displayed in-line with the rest of your content.

See also

Jupyter Book uses [Jupyter](#) to convert text-based files to notebooks, and can support [many other text-based notebook files](#).

Create a notebook with MyST Markdown

MyST Markdown notebooks are defined by two things:

1. YAML metadata that is needed to understand if / how it should convert text files to notebooks (including information about the kernel needed). See the YAML at the top of this page for example.
2. The presence of `{code-cell}` directives, which will be executed with your book.

That's all that is needed to get started!

Quickly add YAML metadata for MyST Notebooks

If you have a markdown file and you'd like to quickly add YAML metadata to it, so that Jupyter Book will treat it as a MyST Markdown Notebook, run the following command:

```
jupyter-book myst init path/to/markdownfile.md
```

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