My sample book

The Jupyter Book Community

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Περιεχόμενα

1		kdown Files	3				
	1.1	What is MyST?	3				
	1.2	Sample Roles and Directives	3				
	1.3	Citations	4				
	1.4	Learn more	2				
2	Content with notebooks						
	2.1	Markdown + notebooks	5				
	2.2	MyST markdown	4				
	2.3	Code blocks and outputs					
3 1	Note	Notebooks with MyST Markdown					
	3.1	An example cell	Ç				
	3.2	Create a notebook with MyST Markdown					
	3.3	Quickly add YAML metadata for MyST Notebooks	10				
Bı	βλιογ	ραφία	11				

This is a small και μερικά ελληνικά εδώ για να δούμε πως λειτουργεί 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. Καλημέρα και καλησπέρα

- Markdown Files
- Content with notebooks
- Notebooks with MyST Markdown

Περιεχόμενα 1

¹ https://jupyterbook.org

2 Περιεχόμενα

ΚΕΦΑΛΑΙΟ 1

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.

1.1 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.

For more about MyST, see the MyST Markdown Overview².

1.2 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:

Σημείωση: 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.

² https://jupyterbook.org/content/myst.html

1.3 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:

1.4 Learn more

This is just a simple starter to get you started. You can learn a lot more at jupyterbook.org³.

³ https://jupyterbook.org

ΚΕΦΑΛΑΙΟ 2

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.

2.1 Markdown + notebooks

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

You can also add_{math} and

 $math^{blocks}$

or

 $\mathsf{mean} la_{tex}$

mathblocks

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

2.2 MyST markdown

MyST markdown works in Jupyter Notebooks as well. For more information about MyST markdown, check out the MyST guide in Jupyter Book⁴, or see the MyST markdown documentation⁵.

⁴ https://jupyterbook.org/content/myst.html

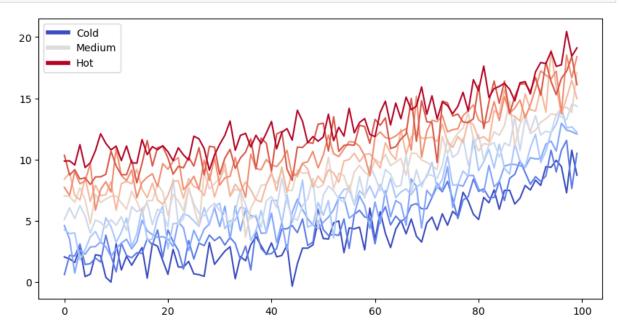
⁵ https://myst-parser.readthedocs.io/en/latest/

2.3 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 0x7fbef07411c0>
```



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 6

⁶ https://jupyterbook.org

КЕФАЛАІО 3

Notebooks with MyST Markdown

Jupyter Book also lets you write text-based notebooks using MyST Markdown. See the Notebooks with MyST Markdown documentation⁷ for more detailed instructions. This page shows off a notebook written in MyST Markdown.

3.1 An example cell

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

```
print(2 + 2)

4
```

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.

Δείτε επίσης:

Jupyter Book uses Jupytext⁸ to convert text-based files to notebooks, and can support many other text-based notebook files⁹.

⁷ https://jupyterbook.org/file-types/myst-notebooks.html

⁸ https://jupytext.readthedocs.io/en/latest/

⁹ https://jupyterbook.org/file-types/jupytext.html

3.2 Create a notebook with MyST Markdown

MyST Markdown notebooks are defined by two things:

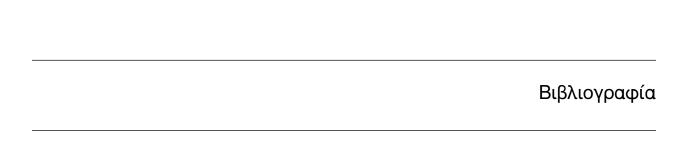
- 1. YAML metadata that is needed to understand if / how it should convert text files to notebooks (including information about the kernel needed). See the YAML at the top of this page for example.
- 2. The presence of {code-cell} directives, which will be executed with your book.

That's all that is needed to get started!

3.3 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



[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, 2014. Frontiers in Neuroscience.