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# Book in English

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# Contents

<b>Preface</b>	<b>1</b>
<b>1 First Chapter</b>	<b>3</b>
1.1 First Section of First Chapter . . . . .	3
<b>References</b>	<b>7</b>



## Preface

Hello. This is a Minimum Working Example for all the features provided by the [bookbuilderpy Tool Suite](#). `bookbuilderpy` is available as Python package on [pypi](#) as well as a [docker image](#) containing all required libraries and tools (of which there are many). You can use this example as a blueprint for making your own books.

As an example for a citation, I cite my old book [1]. This is then resolved to a BibTeX record in the file `bibliography.bib`. You can now continue to read [Chapter 1](#).



# 1 First Chapter

Welcome to the first chapter.

## 1.1 First Section of First Chapter

With #, you start a chapter heading, as in [Chapter 1](#). With ##, you start a section heading, as in [Section 1.1](#). ### begins a subsection, and so on.



**Figure 1.1:** This is a figure caption.

Take a look at [Figure 1.1](#).

$$\sum_{i=1}^n \frac{y^i}{n} = \sqrt{3 \sin y + 5} \quad (1.1)$$

Take a look at [Equation \(1.1\)](#). We can also embed formulas directly in the text and write something like  $x = \log_2 5$ .

**Table 1.1:** This is the table caption.

centered column	right-aligned column	left-aligned column
bla	r	l
blub blub blub	abc	123

[Table 1.1](#) is also important. Definitions can also be included and referenced. See, for instance, [Definition 1](#) below.

**Definition 1.** This is a definition of something.

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**Listing 1.1** This is a local code file but we only use lines 6 to 12 and apply automatic simplification. ([src](#))

---

```
1 def log(message):
2     print(f"{datetime.datetime.now()}: {message}")
```

---



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**Listing 1.2** This is a code file from a GitHub repository. We again only use lines 6 to 12, but without simplification. ([src](#))

---

```
1 def log(message: str) -> None:
2     """
3     Write a message to the log.
4
5     :param str message: the message
6     """
7     print(f"{datetime.datetime.now()}: {message}")
```

---

[Listing 1.1](#) is a local code file, which resides in the same folder as the markdown file of this chapter. [Listing 1.2](#) comes from GitHub, from the repository `bb` declared in the metadata.

You can also access the book metadata via the command `meta`. Example are:

1. Book-related metadata:

- title: Book in English
- author: Thomas Weise
- keywords: English, Book

2. Date-related metadata:

- time: 2022-11-01 05:29 UTC
- date: 2022-11-01
- year: 2022

3. Language:

- lang: en
- locale: en\_US
- lang.name: English

4. Repository-related metadata (*only* available if the book is written as a `git` repository):
  - `repo.name`: `thomasWeise/bookbuilderpy-mwe`
  - `repo.url`: `https://github.com/thomasWeise/bookbuilderpy-mwe`
  - `repo.commit`: `b24990965fbefa9228db4f26bee1f0e7fe6dd8cd`
  - `repo.date`: `2022-11-01 13:27 UTC+08:00`
  
5. External repository information is accessible via the command `repo`, using the repository key and the repository information query<sup>1</sup>:
  - `repo.name` for `bb`: `thomasWeise/bookbuilderpy-mwe`
  - `repo.commit` for `bb`: `b24990965fbefa9228db4f26bee1f0e7fe6dd8cd`
  - `repo.date` for `bb`: `2022-11-01 13:27 UTC+08:00`

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<sup>1</sup>Notice that we use `bb` to also identify the GitHub repository of this example to make the example self-contained.





## References

- [1] Thomas Weise. 2009. *Global optimization algorithms – theory and application*. it-weise.de (self-published), Germany. Retrieved from <http://www.it-weise.de/projects/book.pdf>

