

## 7.2.1 Compiling a Booklet

If you want to easily print this book as a booklet, you can take one more step to arrange the pages so that a simple duplex print on any printer will produce signatures that you can easily bind yourself (there are many tutorials online for doing this, I recommend Easy paperback book binding how-to<sup>20</sup> by Rubén Berenguel).

The first step is to create a file alongside your compiled `book.pdf` file called `printbook.tex` with the contents as such:

```
\documentclass[letterpaper]{article}
\usepackage[final]{pdfpages}
\begin{document}
\includepdf[pages=-,nup=1x2,landscape,signature=32]{book.pdf}
\end{document}
```

You can change the value of `signature` as you like, but keep it a multiple of 4. The `signature`<sup>21</sup> is the number of pages (not sheets of paper) which get combined into a “mini-booklet”, and the final book is a combination of all of the signatures (“mini-booklets”) to make the full book. Essentially, if you divide this number by 4, you’ll get the number of sheets of paper that you’ll have to staple together at a time. For a signature of 32 pages, this will mean stapling together 8 pages at a time.

Note that if you have a relatively short book, it may be advantageous to just do all of the book’s pages into one signature, in this case make the signature the next multiple-of-four value higher than the total number of sheets in the `book.pdf` file. For example: if `book.pdf` contains 45 pages, make `signature=48` to put everything into a single signature.

Finally, compile `printbook.tex` using `pdflatex`:

```
pdflatex printbook.tex
```

As a sample, you can view the compiled `book22` and `printbook23` files for this book to see how this can turn out.

---

<sup>20</sup><https://mostlymaths.net/2009/04/easy-paperback-book-binding-how-to.html>

<sup>21</sup>[https://en.wikipedia.org/wiki/Section\\_\(bookbinding\)](https://en.wikipedia.org/wiki/Section_(bookbinding))

<sup>22</sup>`book.pdf`

<sup>23</sup>`printbook.pdf`

## The `mkbook` Book

Kenton Hamaluik

Dec 12, 2019

- enumitem<sup>10</sup>
- textcomp<sup>11</sup>
- graphicx<sup>12</sup>
- float<sup>13</sup>
- svg<sup>14</sup>

The template also requires XeTeX<sup>15</sup> and the following fonts to be available on your system:

- Crimson<sup>16</sup>
- Poppins<sup>17</sup>
- Source Code Pro<sup>18</sup>

Finally, in order to color the source code, you must have Pygments<sup>19</sup> installed and the pygmentize executable must be available on your path.

If you meet all these requirements, you can build the book using xelatex. Assuming you built the book.tex file in the print directory as above:

```
cd print
xelatex -shell-escape book.tex
xelatex -shell-escape book.tex
```

Note that the -shell-escape argument is required in order to get Pygments to colour your source code, and the xelatex command is run twice in order to properly build the table of contents.

Note also that in the current template, the pages that are created are 5.5 inches by 8 inches. This is to facilitate booklet printing on North American letter paper. Feel free to change this in the generated book.tex file before compiling if you need to.

---

<sup>10</sup><https://ctan.org/pkg/enumitem>

<sup>11</sup><https://ctan.org/pkg/textcomp>

<sup>12</sup><https://ctan.org/pkg/graphicx>

<sup>13</sup><https://ctan.org/pkg/float>

<sup>14</sup><https://ctan.org/pkg/svg>

<sup>15</sup><https://www.tug.org/xetex/>

<sup>16</sup><https://github.com/sklosch/Crimson>

<sup>17</sup><https://www.fontsquirrel.com/fonts/poppins>

<sup>18</sup><https://github.com/adobe-fonts/source-code-pro>

<sup>19</sup><https://pygments.org/>

```
mkbook build -l ./print/book.tex
```

Note that this command is more about preparing a `.tex` file that you can then further customize for your own book than having a complete, ready-to-go PDF that is entirely your own—the current LaTeX template that gets generated works for me but it may not work for you.

## 7.1 Images

If an image in the document is an external image (i.e. it starts with `http://` or `https://`), `mkbook` will attempt to download the image the same directory that the generated LaTeX document resides in. If it cannot do so, it will tell you. If, on the other hand, the image is in the source tree, it will be copied over the same way that any other asset is and should be available to the LaTeX file. Similar to this, `mkbook` will attempt to render any `plantuml` code sections into `.svg` files which also get included in the book.

## 7.2 Building the Book

The current LaTeX template requires the following packages to be installed:

- `ulem`<sup>3</sup>
- `fntspec`<sup>4</sup>
- `sectsty`<sup>5</sup>
- `xcolor`<sup>6</sup>
- `minted`<sup>7</sup>
- `amsmath`<sup>8</sup>
- `amssymb`<sup>9</sup>

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## Chapter 7

### LaTeX Output

*mkbbook* can also export a LaTeX<sup>1</sup> file which can be used to convert your book to a beautiful, ready-to-print PDF<sup>2</sup>. This feature is still under heavy development as it's not quite as smooth as I would like, and the generated .tex document is perhaps a bit too customized—I'm still exploring this.

For now, however, you can convert your book into a single .tex file with the following command which will create the file ./print/book.tex along with any images needed to render the book:

---

<sup>1</sup><https://www.latex-project.org/>

<sup>2</sup><https://en.wikipedia.org/wiki/PDF>

## Preface

*mkbook* is my simpler alternative to *mdbook*<sup>1</sup> which is a great tool, however I really dislike some of the decisions they took—such as relying on javascript for highlighting and navigation and including a lot of bells and whistles such as javascript-based search.

This tool aims to work somewhat similarly to *mdbook*, but is generally intended to be a more minimal alternative that is customized more towards my needs and desires than anything else.

If you're not familiar with *mdbook*, *mkbook* is a tool to convert a collection of Markdown<sup>2</sup> files into a static website / book which can be published online. It was created to help me write documentation with minimum fuss while presenting it in an easy-to-consume manner.

---

<sup>1</sup><https://crates.io/crates/mkbook>  
<sup>2</sup><https://commonmark.org/>

- toml<sup>20</sup>

---

<sup>20</sup><https://github.com/toml-lang/toml>

mat into a single, compressed .css file using sass-rs<sup>9</sup>. The resulting .css file is then bundled into the binary using the macro<sup>10</sup>. When a book is generated, this .css is written to the output folder as style.css, where it is included by each generated .html file.

### 6.3 Templates

*mkbook* contains two template files: one for the index, and one for each page / chapter, and uses Askama<sup>11</sup> to render the templates. Since the Askama templates are compiled when *mkbook* is compiled, it is not currently possible to change the templates at run time. You can view the sources for these templates on github<sup>12</sup>.

### Chapter 1

## Command-line Interface

### 6.4 Markdown Formatting

Markdown is formatted using comrak<sup>13</sup> with some specific options, see the Markdown chapter<sup>14</sup> for more information.

### 6.5 Syntax Highlighting

Code is syntax-highlighted using syntect<sup>15</sup> with the default languages and the base16-eights colours scheme. Some additional languages above the base list supported by syntect have been added:

- haxe<sup>16</sup>
- hxml<sup>17</sup>
- sass<sup>18</sup>
- scss<sup>19</sup>

---

<sup>9</sup><https://crates.io/crates/sass-rs>

<sup>10</sup>[https://doc.rust-lang.org/std/macro.include\\_str.html](https://doc.rust-lang.org/std/macro.include_str.html)

<sup>11</sup><https://crates.io/crates/askama>

<sup>12</sup><https://github.com/hamalui/kmkbook/tree/master/templates>

<sup>13</sup><https://crates.io/crates/comrak>

<sup>14</sup><https://github.com/hamalui/kmkbook/blob/master/templates/markdown.html>

<sup>15</sup><https://crates.io/crates/syntect>

<sup>16</sup><https://haxe.org/>

<sup>17</sup><https://haxe.org/manual/compiler-usage-hxml.html>

<sup>18</sup><https://sass-lang.com/documentation/syntax#the-indented-syntax>

<sup>19</sup><https://sass-lang.com/documentation/syntax>

```
$ mkbook
mkbook 0.3.0
Kenton Hamaluik <kenton@hamaluik.ca>
```

**USAGE:**

```
mkbook [SUBCOMMAND]
```

**FLAGS:**

- h, --help Prints help information
- V, --version Prints version information

**SUBCOMMANDS:**

- build build the book
- help Prints this message or the help of the given subcommand(s)
- init initialize a mkbook directory tree
- watch build the book and continually rebuild whenever the source changes

*mkbook* generates a completely static, javascript-free website from a series of Markdown files. All of the layout and styling is controlled purely by hand-crafted CSS specific to this book's purpose.

**6.1 Assets**

*mkbook* currently bundles two assets which get written into the book directory: favicon, ico, and icons.svg. favicon.ico is the Font Awesome 5 book icon<sup>1</sup>, and icons.svg contains 3 Font Awesome 5<sup>2</sup> arrow icons: arrow-left<sup>3</sup>, arrow-right<sup>4</sup>, and arrow-up<sup>5</sup> which are used for navigation. These files are compiled into the *mkbook* binary using the macro<sup>6</sup>, and written to the output folder on each build.

The init command is a tool to help you get started, and will create an initial README.md file and a stub of your first chapter.

**6.2 Styling**

*mkbook* utilizes Sass<sup>7</sup> to define it's styles; you can view the sources on github<sup>8</sup>. In *mkbook*'s build script, the styles are compiled from their native .scss for-

---

<sup>1</sup><https://fontawesome.com/icons/book?style=solid>

<sup>2</sup><https://fontawesome.com/>

<sup>3</sup><https://fontawesome.com/icons/arrow-left?style=solid>

<sup>4</sup><https://fontawesome.com/icons/arrow-right?style=solid>

<sup>5</sup><https://fontawesome.com/icons/arrow-up?style=solid>

<sup>6</sup>[https://doc.rust-lang.org/std/macro.include\\_bytes.html](https://doc.rust-lang.org/std/macro.include_bytes.html)

<sup>7</sup><https://sass-lang.com/>

<sup>8</sup><https://github.com/hamaluik/mkbook/tree/master/style>

**Chapter 6****How it Works**

```
$ mkbook init --help
mkbook-init
initialize a mkbook directory tree

USAGE:
mkbook init [OPTIONS]

FLAGS:
-h, --help      Prints help information
-V, --version   Prints version information

OPTIONS:
-d, --directory <directory>  an optional directory to
                             initialize into [default: src]
```

## 1.2 The Build Command

The build command is the primary command for *mkbook*, and is responsible for taking the .md files and building the resulting website.

```
$ mkbook build --help
mkbook-build
build the book
```

**USAGE:**

```
mkbook build [OPTIONS]
```

**FLAGS:**

-h, --help	Prints help information
-V, --version	Prints version information

**OPTIONS:**

-i, --in <in>	an optional directory to take the book sources
↳ from [default: src]	
-o, --out <out>	an optional directory to render the contents
↳ into [default: book]	

## Chapter 5

## Customization

There isn't any way to customize the templates nor the CSS yet, though I will investigate this if the need arises. This is because both the templates and CSS are currently compiled at compile-time instead of run-time.

### 1.3 The Watch Command

The watch command is basically the same as the build command, however after building it continues to monitor the source directory and if *any* changes are made (a file is saved, renamed, removed, created, etc), the entire book is re-built. In the future, this will hopefully be smarter but for now it just the whole thing at once. Stop watching using `<kbd>Ctrl+C</kbd>` or sending SIGINT.

mended to lay out your book chapters with manual numbering of the file names, as such:

```
src/
  └── README.md
  ├── 00-foreword.md
  ├── 01-introduction.md
  ├── my-picture.jpg
  └── 02-my-first-chapter
      ├── README.md
      ├── 01-my-first-section.md
      ├── 02-my-second-section.md
      └── etc...
```

An index and navigation will be automatically generated from these files, taking the information for each file from its front-matter.

```
$ mkbook build --help
mkbook-watch
build the book and continually rebuild whenever the source changes

USAGE:
    mkbook watch [OPTIONS]

FLAGS:
    -h, --help      Prints help information
    -V, --version   Prints version information

OPTIONS:
    -i, --in <in>    an optional directory to take the book sources
    ↳ from [default: src]
    -o, --out <out>  an optional directory to render the contents
    ↳ into [default: book]
```

## 1.4 Sample Usages

Build the GitHub Pages<sup>1</sup> document (this book):

```
mkbook build -i docs-src -o docs
```

Build the book, continually watching for changes and enabling auto-reloading in the browser so you can see the book update as you write:

```
mkbook watch -i docs-src -o docs --reload
```

Build a LaTeX<sup>2</sup> version of the book, then compile it to a PDF<sup>3</sup> and open it in evince<sup>4</sup>:

---

<sup>1</sup><https://pages.github.com/>

<sup>2</sup><https://www.latex-project.org/>

<sup>3</sup><https://en.wikipedia.org/wiki/PDF>

<sup>4</sup><https://wiki.gnome.org/Apps/Evince>

```
mkdir build
mkbook build -i docs-src -o docs --latex build/book.tex
cd build
xelatex -shell-escape book.tex
xelatex -shell-escape book.tex
evince book.pdf
```

!["chapter-six](book-chapter-six-5834.jpg "Photo by Kaboompics.com  
→ from Pexels")

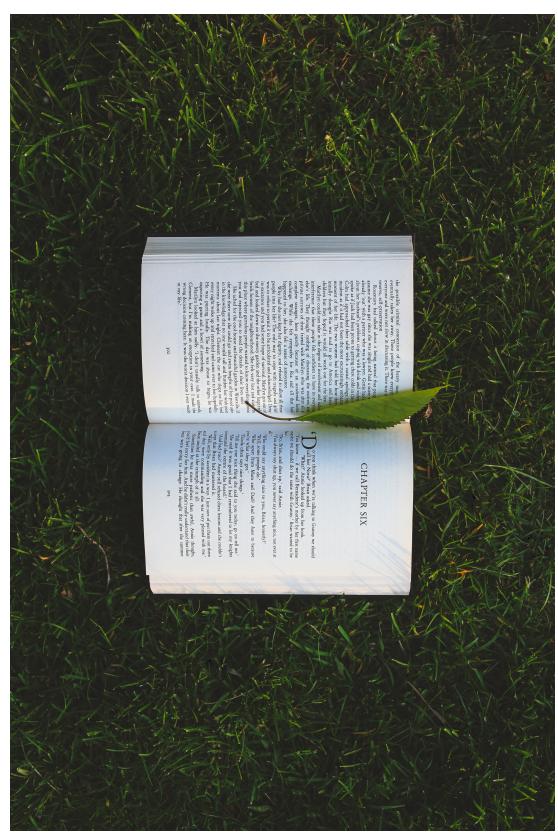


Figure 4.1: Photo by Kaboompics.com from Pexels

### 4.3 Documents

*mkbook* works on mostly a flat directory structure; however one level of sub-directories are supported in order to create sections within chapters. Files that don't end in a .md extension are completely ignored. Each .md file in the root source directly is its own chapter. To create chapters with sub-sections, create a sub-directory in the root directory and then create a README.md file, which will become the root of the chapter, with all .md files in the sub-directory becoming sections in the chapter. The title in the README.md file's frontmatter will be used as the name of the chapter.

The order of the book is based on the alphabetical order of the file names (actually it's based on Rust's implementation of `for str1`). Thus, it is recom-

---

<sup>1</sup><https://doc.rust-lang.org/std/cmp/trait.PartialOrd.html#impl-PartialOrd%3Cstr%3E>

```
---  
title = "The mkbook Book"  
author = "Kenton Hamaluk"  
url = "https://hamaluk.github.io/mkbook/"  
---
```

`_mkbook_` is my simpler alternative to  
 ↳ [mdbook](<https://crates.io/crates/mdbook>)  
 which is a great tool, but for which I really dislike some of the  
 ↳ decisions they  
 took, such as relying on javascript for highlighting and navigation,  
 ↳ and  
 ↳ including a lot of bells and whistles such as javascript-based  
 search.

This tool aims to work somewhat similarly to `_mkbook_`, but is  
 ↳ generally intended  
 to be a more minimal alternative that is customized more towards my  
 ↳ needs and  
 desires than anything else.

#### 4.1.2 Default Values

"My Cool Book"

"Anonymous"

The date the book was built from the command line, in UTC time

*""*

## Chapter 2

# Markdown

`mkbook` relies pretty extensively on Markdown<sup>1</sup> for its ease of use. If you're not familiar with *Markdown*, it is a simple markup language that is design to be easy to read and write in plaintext, and then (relatively) easy for a computer to convert into other formats such as HTML or LaTeX.

The above paragraph looks like this:

`_mkbook_` relies pretty extensively on [Markdown](<https://daringfireball.net/projects/markdown/>) for its ease of use. If you're not familiar with *Markdown*, it is a simple markup language that is designed to be easy to read and write in plain text, and then (relatively) easy for a computer to convert into other formats such as HTML or LaTeX.

*Markdown* by itself isn't quite enough for most purposes, so `mkbook` actually uses the *CommonMark* spec with some additional extensions to make life easier.

### 2.1 CommonMark

#### 4.2 Assets

Any files in the `src` directory which are not included in `.gitignore` and do not end in the extension `.md` will be copied to the output folder. You can use this to include images, files, etc, for example the following image is an asset bundled with the book:

---

<sup>1</sup><https://daringfireball.net/projects/markdown/>

<sup>2</sup><https://commonmark.org/>

<sup>3</sup><https://github.com/gfm/>

<sup>4</sup><https://crates.io/crates/commonmark>

```
let options: ComrakOptions = Comrakoptions {
    hardbreaks: false,
    smart: true,
    github_pre_lang: false,
    default_info_string: None,
    unsafe: true,
    ext_strikethrough: true,
    ext_tagfilter: false,
    ext_table: true,
    ext_autolink: true,
    ext_tasklist: true,
    ext_superscript: true,
    ext_header_ids: Some("header".to_owned()),
    ext_footnotes: true,
    ext_description_lists: true,
    ..Comrakoptions::default()
};
```

Mostly, know that the following extensions are enabled:

- Strikethrough<sup>5</sup>
- Tables<sup>6</sup>
- Autolinks<sup>7</sup>
- Task Lists<sup>8</sup>
- Superscripts ( $e = mc^2 \rightarrow e = mc<sup>2</sup>$ )
- Description Lists:

- A markdown-formatted description of the book

If the README.md file or any of the entries are missing, default values will be used. The README.md file should be formatted as any other page, with the title, author, pubdate, and url specified in the frontmatter, and the book description the *Markdown* contents of the README.md file.

## Chapter 4

### Structure

}

---

<sup>5</sup><https://github.github.com/gfm/#strikethrough-extension->  
<sup>6</sup><https://github.github.com/gfm/#tables-extension->  
<sup>7</sup><https://github.github.com/gfm/#autolinks-extension->  
<sup>8</sup><https://github.github.com/gfm/#task-list-items-extension->

#### 4.1 README.md

*mkbbook* generally requires a README.md file to reside in your source directory. This file is responsible for defining the metadata associated with your book:

- The book's title (title)

- The book's author (author)
- The publication date (pubdate)
- The canonical URL for the book (url)

**author** The author (or authors) who wrote the chapter (defaults to “Anonymous”)

**pubdate** The RFC 3339<sup>2</sup> timestamp of when the chapter was published (defaults to the time at build)

**url** The relative URL of the file, defaults to the generated route (you probably shouldn’t set this one)

<pre>First term : Details for the **first term**</pre>
<pre>Second term : Details for the **second term**</pre>

More details in second paragraph.

## 2.2 Syntax Highlighting

GFM syntax highlighting is also available by using fenced code tags with a label denoting the language, as such:

```
```c++
#include <stdio>

int main() {
    std::cout << "Hello, world!" << std::endl;
    return 0;
}
```

```

which results in:

```
#include <stdio>

int main() {
    std::cout << "Hello, world!" << std::endl;
    return 0;
}
```

To denote the language you can either use one the language’s extensions as the label, or the full name of the language (which is not case-sensitive). The list of supported languages is currently as follows:

---

<sup>2</sup><http://tools.ietf.org/html/rfc3339>

ASP asa

```
ActionScript as
AppleScript applescript,script editor
Batch File bat,cmd
BibTeX bib
C c,h
C# cs,csv
C++ cpp,cc,cp,cxx,c++,C,h,hh,hpp,hxx,h++,inl,ipp
CSS css,css.erb,css.liquid
Cargo Build Results "
Clojure clj
D d,di
Diff diff,patch
Erlang erl,hrl,Emakefile,emakefile
Go go
Graphviz (DOT) dot, DOT, gv
Groovy groovy,gvy,gradle
HTML html,htm,shtml,xhtml,inc,tmpl,tpl
HTML (ASP) asp
HTML (Erlang) yaws
HTML (Rails) rails,rhtml,erb,html.erb
HTML (Tcl) adp
Haskell hs
Haxe hx,hxsl,hscript
```

## Front Matter

## Chapter 3

Bourne Again Shell (bash) sh,bash,zsh,fish,.bash\_aliases,.bash\_completions,.bash\_functions,.bash\_login,.bash\_logout,.bash\_profile,.bash\_variables,.bashrc,.profile,.textmate\_init

C# cs,csv

C++ cpp,cc,cp,cxx,c++,C,h,hh,hpp,hxx,h++,inl,ipp  
CSS css,css.erb,css.liquid

Cargo Build Results "

Clojure clj

D d,di

Diff diff,patch

Erlang erl,hrl,Emakefile,emakefile

Go go

Graphviz (DOT) dot, DOT, gv

Groovy groovy,gvy,gradle

HTML html,htm,shtml,xhtml,inc,tmpl,tpl

HTML (ASP) asp

HTML (Erlang) yaws

HTML (Rails) rails,rhtml,erb,html.erb

HTML (Tcl) adp

Haskell hs

Haxe hx,hxsl,hscript

Each .md file can optionally contain a header with metadata describing the document. If the header isn't present, or if any keys are missing, default values will be used.

To insert a header into a .md file, insert three dashes (---), followed by a new-line, followed by the front matter contents, followed by a newline, then another three dashes and a new-line. The metadata is in the TOML<sup>1</sup> format, so for example the front-matter (and first line) for a file could look like this:

```
---
title = "Front Matter"
author = "Kenton Hamulik"
pubdate = 2019-11-29T15:22:00-07:00
---
```

Each ` .md` file can optionally contain a header with metadata  
 ↪ describing the document. If the header isn't present, or if any  
 ↪ keys are missing, default values will be used.

### 3.1 Supported Keys

The list of supported keys is subject to change, but for now it is as follows:

title A human-readable title for the document (defaults to the filename)

---

<sup>1</sup><https://github.com/toml-lang/toml>

```
Hxml hxml
JSON json
Java java,bsh
Java Properties properties
Java Server Page (JSP) jsp
JavaDoc “
JavaScript js,htc
JavaScript (Rails) js.erb
LaTeX tex,ltx
LaTeXLog “
Lisp lisp,cl,clisp,l,mud,el,scm,ss,lsp,fasl
Literate Haskell lhs
Lua lua
MATLAB matlab
Make Output “
Makefile make,GNUmakefile,makefile,Makefile,OCamlMakefile,mak,
          mk
Markdown md,mdown,markdown,markdn
MultiMarkdown “
NAnt Build File build
OCaml ml,mlj
OCamllex mll
OCaml yacc mly
Objective-C m,h
Objective-C++ mm,M,h
```

PHP `php,php3,php4,php5,php7,phps,phpt,phtml`

PHP Source “

Pascal `pas,p,dpr`

Perl `pl,pm,pod,t,PL`

Plain Text `txt`

Python `py,py3,pyw,pyi,pyx,pyx.in,pxd,pxd.in,pxi,pxi.in,rpy,cpy,SConstruct,Sconstruct,sconstruct,SConscript,gyp,gypi,Snakefile,wscript`

R `R,r,s,S,Rprofile`

R Console “

Rd (R Documentation) `rd`

Regular Expression `re`

Regular Expressions (Javascript) “

Regular Expressions (Python) “

Ruby `rbs,Appfile,Appraisals,Berksfile,Brewfile,capfile,cgi,Cheffile,config.ru,Deliverfile,Fastfile,fcgi,Gemfile,gemspec,Guardfile,irbrc,jbuilder,podspec,prawn,rabl,rake,Rakefile,Rantfile,rbx,rjs,ruby.rail,Scanfile,simplecov,Snappyfile,thor,Thorfile,Vagrantfile`

Ruby Haml `haml,sass`

Ruby on Rails `xml,builder`

Rust `rs`

SCSS `scss`

SQL `sql,ddl,dml`

SQL (Rails) `erbsql,sql.erb`

Sass `sass`

Scala `scala,sbt`

1. External links (prepended by `http://` or `https://`)
2. Internal links (relative path names)
3. Reference links (prepended by `ref: //` and then followed by the chapter title) to refer to other chapters in the book\*\*

Note: Reference links aren't implemented yet!

## 2.6 Tables

Tables are created using the pipe syntax<sup>11</sup>, for example the following:

```

Tables	Are	Cool.
-----:-----	:-----:-----:	-----:
col 3 is	right-aligned	$1660
col 2 is	centered	$12
zebra stripes	are neat	$1

renders as:



Tables	Are	Cool.
col 3 is	right-aligned	\$1660
col 2 is	centered	\$12
zebra stripes	are neat	\$1


```

## 2.7 Task Lists

You can also use GFM<sup>12</sup>-style task lists<sup>13</sup> to indicate a TODO list:

- a task list item
- list syntax required
- normal formatting
- incomplete
- completed

## 2.8 Links

*mkbook* uses standard *MarkDown* notation for links:

```
[link text] (link url)
```

Links can be separated into three types:

---

<sup>11</sup><https://github.github.com/gfm/#tables-extension->

<sup>12</sup><https://help.github.com/en/github/writing-on-github>

<sup>13</sup><https://github.blog/2013-01-09-task-lists-in-gfm-issues-pulls-comments/>

## Shell-Unix-Generic “

TOML tm1, Cargo.lock, Gopkg.lock, Pipfile

Tcl tcl

TeX sty, cls

Textile textile

XML xm1, xsd, xsllt, tld, dtm1, rss, opml, svg

YAML yaml, yml, sublime-syntax

camlp4 “

commands-builtin-shell-bash “

reStructuredText rst, rest

## 2.3 PlantUML Diagrams

If you have PlantUML<sup>9</sup> installed and available on your path, *mkbook* will try to render any code blocks with a language tag of plantuml as inline SVG images.

For example:

## 2.7 Task Lists

If you have PlantUML<sup>9</sup> installed and available on your path, *mkbook* will try to render any code blocks with a language tag of plantuml as inline SVG images.

For example:

## 2.8 Links

*mkbook* uses standard *MarkDown* notation for links:

---

<sup>9</sup><http://plantuml.com/>

```
```plantuml
@startuml
Alice --> Bob: Authentication Request
Bob --> Alice: Authentication Response
Alice -> Bob: Another authentication Request
Alice <-- Bob: Another authentication Response
@enduml
```

```

is rendered as:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (2.1)$$

This feature is still experimental, but I find it handy for my books.

## 2.5 Images

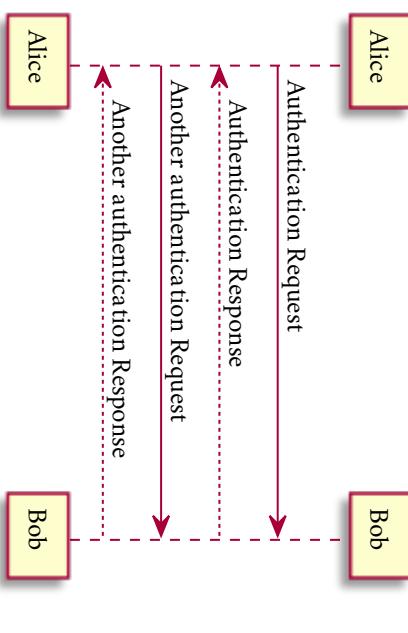
To include an image, use the standard markdown format:

```
![alt](url "title")
```

This will wrap the image in a `figure` with an associated `figcaption` containing the title of the image, as so:

```
![a bear](https://placebear.com/g/512/256 "A majestic bear")
```

will render as:



This feature is still experimental, but I find it handy for my books.

## 2.4 KaTeX (Math) Formulas

If you have KaTeX<sup>10</sup> installed and available on your path, `mkbook` will try to render any code blocks with a language tag of `kate` as inline math blocks.

For example:



Figure 2.1: A majestic bear

---

<sup>10</sup><https://github.com/KaTeX/KaTeX>