

Introduction

Welcome to the documentation for Otter Docs 0.1.0.

Writing documentation is a lame task. It is even more boring and frustrating when you have to setup toolchains and environments and debug for hours to make sure that they build correctly, only to find that the current tools cannot plot your diagrams, or the PDF generation is missing fonts and takes hours to build. So here's Otter Docs. A simple tool that has a single requirement: Typst.

Typst is good at generating PDFs. It also has experimental support for HTML files. Since #7964 Typst can export multiple files for a single project, which makes it ideal for stuff like documentation sites.

Otter Docs uses the bundle target. You can make a new project in Typst, set it to bundle export, and it would generate a site for you. It's only a typst template, and you don't need to worry about setting up the toolchain – Typst is the only tool required.

An Unfinished Project

Otter Docs is a decent choice for organizing long, comprehensive documentation. But just like Typst, Otter Docs is an unfinished project, and is (currently) not a serious tool. Specifically, it's missing these stuff:

- Search engine optimizations (SEO)
- HTML minification; useful for reducing the page size without losing content
- Proper footnote support

However, if you want pure Typst documentation, ease of use, and/or MathML formulae, you might want to give it a try. If you want stability and extremely easy syntax, then maybe you should consider mdBook. If you have any issues, please feel free to open a ticket on GitHub. If you would like to contribute, please open a pull request.

Installation

Because Otter Docs is a pure Typst framework, you do not need to install other tools. No Python, no shell scripts, only Typst. However, there are some caveats. Otter Docs is not currently available on the Typst Universe, and it requires a very specific version of Typst. You would, unfortunately, have to build the compiler yourself. If you are a Nix user, you can use the `flake.nix` file in the repository to setup the environment.

Once Typst 0.15 releases and Otter Docs makes its way to the Universe, the installation process should just be a simple one liner like `#import "@preview/otter-docs:0.1.0": *`.

Licensing

The source and the documentation are available under Apache License v2.0.

Tutorial

Otter Docs uses Typst. If you are not familiar with Typst, you can first take a look at Typst's official tutorial for info on how to write Typst.

Setting Up

If you've used a tool like Shiroa or mdBook, you might be familiar with `book.typ` or `summary.md`. Both files contain metadata and instructions on how to organize the book. In Otter Docs, all of that is concentrated to a single entrypoint – the `book` function:

```
// Always remember to import the package
// NOTICE: OTTER DOCS IS NOT PUBLISHED TO THE TYPST UNIVERSE YET
// THIS LINE WOULD NOT WORK
#import "@preview/otter-docs:0.1.0": *

#book(
  // The routing root. Useful when you are deploying to a folder
  // under your root (e.g. when deployed to GitHub Pages)
  root: "otter-docs",
  // Your document's contents
  tree: (
    // You can add arbitrary content. The content would be displayed
    // in the summary, but would not generate html pages.
    [= Introduction],
    // This would create otter-docs/index.html. The content of the
    // chapter would be from `doc/intro.typ`
    chapter("index", content: include "doc/intro.typ"),
    // This would create otter-docs/doc/tutorial.html. In this case,
    // the content of the chapter is not explicitly stated, so it
    // look into ./doc/tutorial.typ in the current workspace.
    chapter("doc/tutorial"),
    // you can add more chapters here.
  )
)
```

Building with the Command Line

You can then compile using the following arguments in your command line. Remember to replace `<input-file>` with your actual filename

```
$ typst compile --features bundle,html <input-file> --format bundle ./dist
```

This would create the documentation in the `./dist` folder. Additionally, you can change `compile` to `watch` and add the `--open` flag at the end to preview your document in real time. You can edit your `.typ` source files, and any edits would be reflected immediately.

Building with the Web App

(The `typst.app` web app currently does not support the `bundle` target and `MathML` exports).

Authoring

Each chapter should start with a `title`. The title of the page would also be displayed in the summary. Do not start your document with a level 1 heading that looks like this: `= Heading`. Instead, write this:

```
#title[My amazing document]
```

```
= Heading 1
```

Over seas from coast to coast

```
= Heading 2
```


Unfortunately Paged target doesn't support vertical layout yet.

Code

The source code of this example:

```
#title[Demo]
```

= Typography

```
Tailwind Typography and Typst helps styling `inline code`, coloured inline code:
```rust fn foo<T: Clone>(f: fn(T) -> ())```, bold, italics, bold italics,
#highlight[highlighted text],
#underline[underlined text], #overline[overlined text], "quoted text", "quote's
'effect' in quoted text",
#smallcaps[SmallCaps], #strike[strikethrough text], #sub[subscripts],
#super[superscripts], #upper[uppercase text],
#highlight(underline(
 overline[*And* a #sub(
 smallcaps(strike["_comprehensive_"]),
) #super(upper[*_example_*])],
))
#lorem(100)
#for i in range(4) {
 heading(level: i + 1, [Heading #(i + 1)], outlined: false)
}
```

Note that these headings are not outlined, so they would not appear on the sidebar.

Framed text:

```
#html.frame[#lorem(10)]
```

### = Math

```
Inline: the root formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ and the
Chudnovsky algorithm is
 $\frac{1}{\pi} = \frac{\sqrt{10005}}{4270934400} \sum_{k=0}^{\infty} \frac{(-1)^k (6k)! (545140134k + 13591409)}{(3k)! (k!)^3 (640320)^{3k}}$ with
#lorem(30)
```

```
#link(
 "https://en.wikipedia.org/wiki/Chudnovsky_algorithm",
 figure(
 caption: [Click on the formula!],
 $

$$\frac{1}{\pi} = \frac{\sqrt{10005}}{4270934400} \sum_{k=0}^{\infty} \frac{(-1)^k (6k)! (545140134k + 13591409)}{(3k)! (k!)^3 (640320)^{3k}}$$

 $,
),
)
```

### = Lists







## **UNRELEASED**

- Basic documentation features
- Typst template