

# Welcome to Typst SSG

Typst SSG is a static site generator that uses [Typst](#) to create beautiful websites, compiling Typst files into PDFs that are then converted into static HTML pages.

## Features

This example site showcases some of the features of Typst SSG:

- **Markup and typography** powered by Typst, including basic page layout elements like headings, links, and lists, as well as more technical features like graphs, tables, and code blocks.
- **Customizable styles** using Typst’s styling system.
- **Folder-based routing**; each folder in the `src/pages` directory corresponds to a route on the site.
- **Static asset handling**; images and other assets can be placed in the `src/assets` directory and referenced in pages.
- **Internal navigation** using the [Typst SSG utility package](#) for linking between pages. Navigation can also be enabled by enabling the sidebar and/or table of contents in the site configuration.
- **Easy deployment**; the generated static site can be deployed to any static hosting service.

## Quick Example

Pages are compiled to PDFs, so all Typst features are available. For example, some display math:

$$H(A) = \sum_{w_i > 0} w_i h(a_i) = \sum_{w_i > 0} w_i \log_2 \frac{1}{w_i} = - \sum_{w_i > 0} w_i \log_2 w_i$$

A table:

Symbol	Probability	Huffman Code	Code Length
<i>a</i>	12/80	101	3
<i>b</i>	3/80	01011	5
<i>c</i>	9/80	011	3
<i>d</i>	6/80	1100	4
<i>e</i>	13/80	111	3

And a code block:

```
std::string huffmanDecoding(const std::string& encoded, HuffmanNode* root)
{
    std::string decoded;
    HuffmanNode* current = root;

    for (char bit : encoded) {
        if (bit == '0') {
            current = current->left;
        } else if (bit == '1') {
            current = current->right;
        }

        if (!current->left && !current->right) {
            decoded += current->c;
            current = root;
        }
    }
    return decoded;
}
```

## Getting Started

Check out the [Blog](#) for some example articles, or explore the [Projects](#) page to see different layout examples.

Visit the [About](#) page to learn more about this example site.