

# Hugo (HTML)

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*“I am always doing things I can’t do, that’s how I got to do them.”*

Pablo Picasso

## 1 Abstract

I do not run a web shop and I do not need a database to refresh dynamic web pages. That’s why I use Hugo to run my web sites `sulprobil.de` and `berndplumhoff.de`. Hugo is quite efficient. The web pages will be translated quickly. The generated web pages will be loaded quickly, and they are well readable on a computer as well as on smart phones. A good introduction to Hugo can be found here (external link!): `Hugo Quick Start`.

## 2 Prerequisites

1. You need a web site and a provider.
2. You need to install Hugo, see `Hugo Quick Start`.
3. I also installed *7zip* to easily pack my generated web pages and to transfer them to my web site. Later I plan to use *FileZilla*.
4. Normally you should also install *Git* for version control. I started without it because I control my versions in the cloud.
5. You need to have basic knowledge of HTML or of *Markdown* files, and you need to be able to execute and to change batch files.
6. I selected the simple *Ghostwriter* theme with this file `config.toml`:

```
baseurl = "https://www.sulprobil.de/"
title = "Sulprobil"
theme = "ghostwriter"

[Params]
    mainSections = ["post"]
    intro = true
    headline = "Sulprobil Blog"
    copyright = "(C) (P) 2025 by Bernd Plumhoff"
    defaultContentLanguage = 'en'
    description = "My blog in German: https://www.berndplumhoff.de"
    email = "mail@sulprobil.de"
   .opengraph = true
    dateFormat = "Mon, Jan 2, 2006"

[Permalinks]
    post = "/:filename/"

[markup]
    [markup.highlight]
        anchorLineNos = false
        codeFences = true
        guessSyntax = false
        hl_Lines = ''
        lineAnchors = ''
        lineNoStart = 1
        lineNos = false
        lineNumbersInTable = true
        noClasses = true
        style = 'vs'
        tabWidth = 4
```

## 3 Markdown Files

I do not bother too much about HTML; I prefer working on the meta level *Markdown*. I just enter my text in stream mode, *italic* text I need to enclose with single stars \*, around **bold** text I need to enter two stars \*\* on the left as well as on the right. Protected text, which I like to see as entered, I need to enclose with ‘‘‘.

### 3.1 Images

Images I store as .png or .jpg files in the subfolder `static`. With:

```
![Grafic1](/grafic1.png)
```

I insert them into my web page.

### 3.2 Tables

Tables I generate with the Markdown Table Generator: **Example:**

Source code:

```
[//]: # ( https://www.tablesgenerator.com/markdown_tables )
```

```
---
|          | Values | Percent |
|-----:|-----:|-----:|
|          |      11 |      1.80 |
|          |      45 |      7.36 |
|          |     555 |     90.83 |
| **Sum** | **611** | **99.99** |
---
```

Result:

	Values	Percent
	11	1.80
	45	7.36
	555	90.83
<b>Sum</b>	<b>611</b>	<b>99.99</b>

Of course, you can enter Markdown tables directly. A table starts and ends with --- (three dashes), and with a colon : in the underlining title row you specify whether a column should be left or right aligned.

### 3.3 Internal Link

An internal link I enter with:

```
[Logging]({{< ref "/post/excel_vba_a_collection_en.md" >}} "Logging")
```

### 3.4 External Link

An external link I define at the end of my Markdown file with:

```
[Hugo Quick Start]: https://gohugo.io/getting-started/quick-start/
```

For example, I then enter it with:

```
(external link!) [Hugo Quick Start]
```

The somewhat ugly note (external link!) I just add for legal safety. In Markdown files, I cannot create a target `_blank`.

### 3.5 Syntax Highlighting

Syntax highlighting is done by *Chroma*.

In file `config.toml` mentioned above on the web site level, I have:

```
[markup]
[markup.highlight]
  anchorLineNos = false
  codeFences = true
  guessSyntax = false
  hl_Lines = ''
  lineAnchors = ''
  lineNoStart = 1
  lineNos = false
  lineNumbersInTable = true
  noClasses = true
  style = 'vs'
  tabWidth = 4
```

And on my web pages, I then use, for example:

Start String	For
'''VB.net	VBA Code
'''Batchfile	Batch file
'''markdown	Markdown file
'''Perl	Perl Code
'''SQL	SQL Code

### 3.6 Bullet Points

If you like to generate bullet points within your text such as:

- First bullet point
- Second bullet point
- Third bullet point

Then just enter:

- First bullet point
- Second bullet point
- Third bullet point

## 4 Easy Editing and Testing of Generated Web Pages

Hugo translates my web pages quickly into HTML, and I can test it easily.

With `hugo -D` I translate my whole web site. Resulting HTML files will be generated in subfolder `public`.

With `hugo serve` I translate my web pages on-the-fly. They will be shown on my local site `http://localhost:1313/`. Hugo is waiting for changes and would show them immediately.

The batch file `run_hugo.bat` listed below first deletes subfolder `public`, then it translates the whole website, and the generated HTML files get zipped in subfolder `public` into a zip file `public.zip`. For this, I installed *7zip*.

```
REM @ECHO OFF
TITLE Running hugo now and showing local test site
REM Please note that you need to add C:\Programme\Hugo\bin
REM (your Hugo installation folder) to your %PATH%.
:loop
RMDIR /S /Q public
timeout /t 1 /nobreak > nul
if exist public goto loop
taskkill /f /im hugo.exe
hugo -D || PAUSE && EXIT /B
CD public && "C:\Programme\7-Zip\7z.exe" a -tzip "public.zip" "."
CD ..
start "" http://localhost:1313/
REM hugo serve
hugo server --disableFastRender
```