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1. Introduction

prodockit is a family of extensions for [Zensical](#) needed for professional and academic documentation - the pieces a report, dissertation, or technical document commonly needs that Zensical doesn't provide out of the box: section cross-references, bibliography/citation handling, a glossary, and a Pandoc/WeasyPrint PDF pipeline for the downloadable, submittable document these usually need alongside the website itself.

Most of prodockit is [Python-Markdown](#) extensions, that are enabled in `zensical.toml`. [prodockit.pdf](#) is a command-line tool instead, since a PDF build pipeline isn't a Markdown syntax extension - no Python required, it reads the same `zensical.toml` too. In addition, there are a set of website macros to help use the features of prodockit.

It's a kit for professional documentation, built on Zensical's own Markdown and Pandoc/WeasyPrint PDF pipeline.

1.1 Extensions

Extension	Description
prodockit.headings	Gives every heading an id and a hierarchical section number ("1", "1.1", "1.2", "2", ...).
prodockit.refs	<code>\ref{id}</code> section cross-references, resolving to the target's current number - similar in spirit to LaTeX's <code>\ref</code> .
prodockit.citations	Define a source once, cite it by key anywhere with <code>\cite{id}</code> - auto-generates the bracketed, linked citation text.
prodockit.glossary	Define a term once (an acronym expansion, a glossary entry), insert it by id anywhere with <code>\gls{id}</code> - similar in spirit to LaTeX's <code>glossaries</code> package.
prodockit.tables	Percentage or fixed column widths on a table, via a <code>width</code> attribute already attachable to a header cell with <code>attr_list</code> .
prodockit.bibliography	An alternative to <code>prodockit.citations</code> : define sources in a BibTeX/BibLaTeX <code>.bib</code> file and format <code>\citebib{id}</code> /the reference list in any Citation Style Language style, via Pandoc's own <code>--citeproc</code> .

1.2 PDF generation

Module	Description
prodockit.pdf	Builds a standalone PDF from your site, via Pandoc and WeasyPrint. Run <code>prodockit pdf</code> from your project root - everything is read from your own <code>zensical.toml</code> .

```
prodockit pdf
```

See [PDF generation](#) for the `zensical.toml` settings it reads, and for the Python API if you're scripting your own build pipeline instead.

1.3 Website macros

Module	Description
prodockit.zensical_macros	Jinja variables/macros for Zensical's macros plugin: a site-wide word count, the git-detected repository URL, chapter/appendix numbering that continues across pages, and reference/acronym/glossary spacing that matches <code>prodockit.pdf</code> 's own PDF output.

```
[project.markdown_extensions.zensical.extensions.macros]
modules = ["prodockit.zensical_macros"]
```

See [Website macros](#) for the full variable/macro list.

1.4 Quick example

```
import markdown

html = markdown.markdown(
    """
# Introduction

See \\ref{background} for context.\\cite{skou2023}

## Background

...

Skoulikari, A. (2023) *Learning Git*.
{: #skou2023 data-cite-text="Skoulikari, 2023" }
```

```
""",
    extensions=["attr_list", "prodockit.headings",
"prodockit.refs", "prodockit.citations"],
)
```

`\ref{background}` resolves to `1.1` - the current section number of the heading it points to - and `\cite{skou2023}` resolves to `[Skoulikari, 2023]`, linked to that source's own paragraph. Both stay correct if headings/sources are reordered, since resolution happens fresh on every conversion.

1.5 Status

Early, but functional. `prodockit.headings`, `prodockit.refs`, `prodockit.citations`, `prodockit.glossary`, `prodockit.tables`, `prodockit.bibliography`, `prodockit.pdf`, and `prodockit.zensical_macros` are implemented and tested. `prodockit.citations` itself still doesn't auto-generate a full references list from structured bibliographic data (see [prodockit.citations](#)) - [prodockit.bibliography](#) is the alternative that does, via a `.bib` file and Pandoc's own `--citeproc`. None of `prodockit.bibliography` / `prodockit.pdf` / `prodockit.zensical_macros` has a formal, versioned public API yet (see [prodockit-extensions#7](#)). See the [Release Notes](#) for what's landed so far.