

Stencil

pypi package 0.2.1







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python 2.6 | 2.7

`stencil` is a **lightweight CLI tool** that generates HTML files directly from a simple YAML or JSON configuration.

No need to manually write boilerplate HTML and CSS — just describe your UI in a config file, and `stencil` handles the rest.

Features

-  Define UI elements (title, text, button) in YAML or JSON.
 -  Generates a ready-to-use `index.html` with clean CSS styling.
 -  Automatic JavaScript stubs for button callbacks.
 -  Auto-detects config file (`stencil.yaml` or `stencil.json`) in your project root.
 -  **Hot-reload support:** automatically regenerate HTML when the config file changes (`stencil --watch`).
 -  Zero setup — just install and run.
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Installation

```
pip install stencil-ui
```

Requires Python 3.8+

Usage

1. Create a config file

`stencil.yaml` in your project root:

```
app:
  - title: "My First Stencil Page"
  - text: "Hello, world!"
  - button:
    label: "Click Me"
    callback: "onClick"
```

2. Generate HTML

```
stencil
```

`index.html` will be generated in your project root.

3. Optional: Hot Reload

Regenerate HTML automatically when you edit your config file:

```
stencil --watch
```

- Monitors `stencil.yaml` or `stencil.json`
 - Automatically updates `index.html` whenever the file changes
 - Optional: use a browser live-reload extension to see changes immediately
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Example Output

Given the above config, Stencil produces a styled HTML page like this:

```
<title>My First Stencil Page</title>
<h1>My First Stencil Page</h1>
<p>Hello, world!</p>
<button onclick="onClick">Click Me</button>
<script>
function onClick() {
  // TODO: implement this
}
</script>
```

Configuration

Stencil looks for either:

- `stencil.yaml`
- `stencil.json`

Supported elements:

Element	Example	Output
<code>title</code>	<code>- title: "My Page"</code>	<code><title> + <h1></code>
<code>text</code>	<code>- text: "Hello World!"</code>	<code><p>Hello World!</p></code>
<code>button</code>	see example above	<code><button></code> with JS callback

Project Structure Example

```
my-project/  
|  
├─ stencil.yaml  
├─ index.html    # generated  
└─ css/  
    └─ style.css
```

Development

Clone and install locally:

```
git clone https://github.com/your-username/stencil-ui.git  
cd stencil-ui  
pip install -e .
```

Run CLI from source:

```
python -m stencil --watch
```

License

This project is licensed under the MIT License.

Inspiration

Stencil was built to simplify rapid prototyping of HTML pages from configs. Perfect for:

- Mockups & quick demos
 - Teaching web basics
 - Auto-generating documentation UIs
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I can also **rewrite your “Example Output” section** to include a screenshot and a small live demo snippet showing **hot reload in action**, which will make the README way more appealing for users.

Do you want me to do that next?