# OER-Forge

**Build, share, and improve WCAG-compliant Open Educational Resources with Python!**

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## Welcome

OER-Forge is an open source Python toolkit for building, organizing, and publishing accessible Open Educational Resources (OERs). Our goal: make it easy and fun to create sites and documents that meet [WCAG](https://www.w3.org/WAI/standards-guidelines/wcag/) standards.

* **Accessible by design:** All templates and outputs aim for [WCAG compliance](https://www.w3.org/WAI/standards-guidelines/wcag/).
* **Database-driven navigation:** Section indices, menus, and hierarchy are managed in SQLite for robust, extensible site structure.
* **Multi-format input:** Write content in Markdown, DOCX, and Jupyter Notebooks.
* **Multi-format export:** Markdown, DOCX, PDF, LaTeX, and TXT.
* (optional) **Validation using Pa11y:** Automated checks and open reporting during and after build to ensure compliance. [Pa11y on GitHub](https://github.com/pa11y/pa11y)

## Get Started

1. **Clone the repo:**

* git clone https://github.com/OER-Forge/OER-Forge.git  
  cd OER-Forge

1. (optional) **Create a virtual environment and activate it:**

* python -m venv venv  
  source venv/bin/activate
* **On Windows use:**
* python -m venv venv  
  venv\Scripts\activate

1. **Install dependencies:**

* pip install -r requirements.txt

1. **Build the sample site:**

* python build.py

1. **View your site:** Open build/index.html or docs/index.html in your browser.

## Features

### Accessibility & Usability

* **Accessible by design:** ARIA labels, alt text, color contrast, and keyboard navigation.
* **Adjustable interface:** User controls for text size, spacing, and layout.
* **Dark mode:** Toggle theme for better readability.
* **Responsive design:** Mobile-friendly layouts and navigation.

### Content & Input Formats

* **Multi-format input:** Markdown, DOCX, Jupyter Notebooks
* **Tables & lists:** Advanced Markdown tables, nested lists, and task lists.
* **Inline figures:** Markdown images with alt text for accessibility.
* **Math support:** LaTeX-style math rendering with MathJax.
* **Syntax highlighting:** Beautiful code blocks with Pygments.

### Navigation & Structure

* **Section indices & navigation:** Database-driven, supports arbitrary hierarchy, top-level and nested menus.
* **Cross-references:** Link sections, figures, tables, and listings easily.
* **Footnotes & endnotes:** Standard Markdown syntax for notes.

### Export & Download

* **Download options:** Export pages in multiple formats (PDF, DOCX, TXT, etc.).

### Citations & References

* **Citations & references:** Manage bibliographies with BibTeX.

### Presentation & Customization

* **Callouts & alerts:** Styled boxes for tips, warnings, and important info.
* **Extensible templates:** Jinja2-based, easy to customize.

### Build System

* **Robust build system:** Automated, logs to log/ for debugging.

## Documentation

[Comprehensive documentation](https://oer-forge.github.io/docs/) is available and hosted on [GitHub](https://github.com/OER-Forge/docs).

## Get Involved

We welcome your feedback, suggestions, and contributions! Please use [GitHub Issues](https://github.com/OER-Forge/OER-Forge/issues) to report bugs, request features, or ask questions.

* **Contribute a Pull Request:** [Help wanted](https://github.com/OER-Forge/OER-Forge/labels/help%20wanted)
* **Report a bug:** [File an issue](https://github.com/OER-Forge/OER-Forge/issues/new?labels=bug)
* **Request a feature:** [File an enhancement](https://github.com/OER-Forge/OER-Forge/issues/new?labels=enhancement)
* **Ask a question:** [Open a question](https://github.com/OER-Forge/OER-Forge/issues/new?labels=question)

## License

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## Getting OER-Forge

OER-Forge is hosted on [GitHub](https://github.com/OER-Forge/OER-Forge).

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