

## About Krik



Figure 1: Krik logo

**Krik** is a fast, modern static site generator written in Rust that transforms Markdown files into beautiful, responsive websites with built-in development tools and content management features.

### Why Krik?

Static site generators have become essential tools for creating fast, secure websites. Krik stands out by combining:

- **Performance:** Built with Rust for maximum speed and efficiency
- **Developer Experience:** Embedded content, live reload server, and quick content creation
- **Zero Dependencies:** Complete sites with embedded themes - no git repo required
- **Simplicity:** Intuitive file-based structure with minimal configuration
- **Features:** Comprehensive feature set including i18n, themes, feeds, and development tools
- **Modern Web Standards:** HTML5, responsive design, and accessibility

### Key Features

#### Development Tools

- **Site initialization:** `kk init` creates complete sites with embedded content and themes
- **Content creation:** `kk post` and `kk page` commands for instant content generation

- **Development server:** Live reload with file watching and mobile-safe mode
- **One-command setup:** No external dependencies or git repositories needed

### Core Functionality

- Full GitHub Flavored Markdown support with tables, footnotes, and code blocks
- YAML front matter for rich metadata and layout control
- Draft support for work-in-progress content (`draft: true`)
- Automatic asset copying and directory structure preservation
- Site configuration via `site.toml`

### Internationalization

- Filename-based language detection (`file.lang.md`)
- Automatic language selector dropdown
- Support for 10+ languages with proper native names
- Seamless navigation between translations
- Multi-language content organization

### Theme System

- Automatic light/dark mode detection via OS preferences
- Manual theme toggle with localStorage persistence
- Responsive, mobile-first design with hamburger menu
- CSS custom properties for easy customization
- Theme-aware syntax highlighting

### Advanced Navigation & UX

- Auto-generated table of contents with `toc: true`
- Bidirectional footnote navigation with smooth scrolling
- Smart scroll-to-top button with visibility controls
- Depth-aware relative linking across directory structures
- Mobile-optimized touch interfaces

### Content Features

- RFC 4287 compliant Atom feed generation with `xml:base` support
- Tag support for post categorization
- Directory-based content organization (posts vs pages)
- Custom template selection via front matter
- Timestamp handling with file modification time fallback

## Installation & Usage

### Quick Start (Recommended)

```
# Install from crates.io
cargo install krik
```

```
# Create a new site
```

```
kk init my-blog
cd my-blog

# Start development server
kk server

# Create content
kk post "My First Post"
kk page "About Me"
```

## Project Links

- **Source Code:** GitHub Repository
- **Package:** crates.io
- **Issues & Feature Requests:** GitHub Issues
- **Releases:** GitHub Releases

## Technical Details

Krik is built with modern Rust practices and leverages several excellent crates:

- **pulldown-cmark:** Fast CommonMark parser with GitHub extensions
- **tera:** Powerful Jinja2-inspired templating engine
- **serde:** Serialization framework for YAML and JSON handling
- **chrono:** Date and time handling with timezone support
- **walkdir:** Recursive directory iteration for file processing
- **include\_dir:** Compile-time file embedding for zero-dependency deployment
- **clap:** Modern CLI argument parsing with subcommands
- **warp:** Fast web server for development mode with live reload

## Project Status

Krik v0.1.5+ is feature-complete and includes all the tools needed for modern static site development:

- ✓ **Complete Development Workflow:** Init → Create → Develop → Deploy
- ✓ **Embedded Content & Themes:** No external dependencies required
- ✓ **Content Creation Tools:** Quick post and page generation
- ✓ **Live Development Server:** File watching with mobile-safe options
- ✓ **Full Theme System:** Light/dark modes with responsive design
- ✓ **Complete Internationalization:** Multi-language support with navigation
- ✓ **Advanced Navigation:** TOC, footnotes, scroll-to-top, mobile menu
- ✓ **Standards Compliance:** Valid HTML5, RFC 4287 feeds, accessibility
- ✓ **Comprehensive Documentation:** Getting started guides and references

The project follows semantic versioning and maintains backward compatibility for stable features. Active development continues with focus on performance, usability, and developer experience.

## Contributing

Krik is open source and welcomes contributions! Whether you're reporting bugs, suggesting features, or submitting code:

1. Check the GitHub Issues for existing discussions
2. Fork the repository and create a feature branch
3. Test your changes thoroughly
4. Submit a pull request with clear description

## License

Krik is released under the MIT License. See the LICENSE file for details.

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Ready to try Krik? Check out the Getting Started Guide for a complete tutorial, or explore the Documentation for detailed feature references!

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## Document Information

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