

## Table of Contents

- [What is unique about its implementation?](#)

Asciidoctor is a *fast* text processor and publishing toolchain for converting AsciiDoc content to HTML5, DocBook 5 or 4.5, EPUB3, PDF and other formats. Asciidoctor is the leading implementation of the AsciiDoc syntax, first introduced and implemented in the Python-based AsciiDoc project.

Asciidoctor is written in Ruby and can be used on any Ruby runtime, including JRuby. It can also be run on the JVM via AsciidoctorJ, a formal Java API which leverages JRuby underneath, or run in JavaScript using Asciidoctor.js, a transcompiled version of the Ruby codebase.

## What is unique about its implementation?

Asciidoctor converts AsciiDoc source files and strings to HTML 5, DocBook 4.5 and other formats, including HTML 5 presentations (reveal.js, Bespoke.js, etc).

What follows are highlights of its most notable features.

Asciidoctor uses a set of built-in ERB templates to generate HTML 5 and DocBook 4.5 output that is structurally equivalent to what AsciiDoc produces. Any of these templates can be replaced by a custom template written in any template language available in the Ruby ecosystem. Custom template rendering is handled by the [Tilt](#) template abstraction library (among the most popular gems in the Ruby ecosystem).

Leveraging the Ruby stack isn't the only benefit of Asciidoctor. Unlike the AsciiDoc Python implementation, Asciidoctor parses and converts the source document in discrete steps. This makes converting the document optional and gives Ruby programs the opportunity to extract, add or replace information in the document by interacting with the document object model Asciidoctor assembles. Developers can use the full power of the Ruby programming language to play with the content in the document.

No coverage of Asciidoctor would be complete without mention of its 'speed'. Despite not being an original goal of the project, Asciidoctor has proven startlingly fast. It loads, parses and converts documents **100x as fast** as the Python implementation. That's good news for developer productivity and good news for GitHub or any server-side application that needs to convert AsciiDoc markup. Asciidoctor also offers several levels of security, further justifying its suitability for server-side deployments.

