Wikiprint Book

Title: Syntax Coloring of Source Code

Subject: TechTIDE-Wiki - TracSyntaxColoring

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Syntax Coloring of Source Code

Trac supports language-specific syntax highlighting of source code within wiki formatted text in wiki processors blocks and in the repository browser. Syntax coloring is provided using ■Pygments, which covers a wide range of programming languages and other structured texts, and is actively supported. If Pygments is not available, Trac will display the content as plain text.

About Pygments

■Pygments is a highlighting library implemented in pure python, very fast, easy to extend and ■well documented.

The Pygments default style can specified in the mime-viewer section of trac.ini. The default style can be overridden by setting a *Style* preference on the preferences page.

■Pygments lexer options can be specified as WikiProcessor arguments and defaults can be set in the environment configuration.

Syntax Coloring Support

Supported languages

The list of currently supported languages can be found on the ■supported languages page. The list represents the languages supported in the most recent version of Pygments, so the languages actually supported in your installation could differ if you have an older version installed. The listing of ■supported lexers provides additional information about the default mime type to keyword mappings.

Explicit control of the mime type associated with a WikiProcessor and file extension is available through the `mime_map` setting. For example, by default `.m` files are considered Objective-C files. In order to treat `.m` files as MATLAB files, add `text/matlab:m` to the [mimeviewer] mime_map option.

If a mimetype property such as `svn:mime-type` is set to `text/plain`, there is no coloring even if file is known type like `java`.

Direct Rendering

Rich content may be directly *rendered* instead of syntax highlighted. This usually depends on which auxiliary packages are installed and which components are activated in your setup. For example, a `text/x-rst` document will be rendered via `docutils` if it is installed and the `trac.mimeview.rst.ReStructuredTextRenderer` is not disabled. It will be syntax highlighted otherwise.

Similarly, a document with the mimetype `text/x-trac-wiki` is rendered using the Trac wiki formatter, unless the `trac.mimeview.api.WikiTextRenderer` component is disabled. If you want to ensure that an HTML document gets syntax highlighted and not rendered, use the `text/xml` mimetype.

HTML documents are directly rendered only if the `render_unsafe_html` settings are enabled in your TracIni file. See [attachment] render_unsafe_content, [browser] render_unsafe_content and [wiki] render_unsafe_content. The setting is present in multiple sections because there are different security concerns depending on where the document comes from.

Known MIME types

See also: WikiProcessors, WikiFormatting, TracWiki, TracBrowser