

eggdoc egg

An egg documentation tool
Extension for Chicken Scheme
Version 1.2

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1 About this egg

1.1 Version history

- 1.2 `eggdoc:make-defsig`; `subsub[sub]section` tags; `with-default-param` tag
- 1.1 `setup` scripts adds documentation and version info [Thanks to Jim Miller]
- 1.0 Initial release

1.2 Requirements

This egg requires the following extensions:

`sxml-transforms`, `doctype`

1.3 Usage

Load this egg like so:

`(require-extension eggdoc)`

2 Documentation

eggdoc is an SXML documentation tool which produces HTML pages for Chicken eggs. It uses the `sxml-transforms` extension to transform your SXML via a comprehensive XML stylesheet, simplifying the creation of egg documentation. It's also quite customizable.

eggdoc->html [procedure]
 (eggdoc->html DOC [STYLESHEET])

Transform the SXML document `DOC` using the optional SXSLT stylesheet `STYLESHEET`. If not specified, the built-in stylesheet will be used, which is also accessible with `(eggdoc:make-stylesheet)`.

eggdoc:make-stylesheet [procedure]
 (eggdoc:make-stylesheet DOC)

Returns the default SXSLT stylesheet. This is a procedure because the stylesheet is built dynamically using the contents of the SXML document `DOC`. For example, the value of the `(name)` tag is retrieved at build time and inserted in the header and the usage information.

You can append to or modify this stylesheet and then pass it to `eggdoc->html`. This is done in doctype's eggdoc to provide a new tag, `(strings)`, which makes the SXML much cleaner.

eggdoc:doctype [parameter]
 The DOCTYPE for this document, typically as defined in the doctype extension. This defaults to `doctype:xhtml-1.0-strict`.

eggdoc:css [parameter]
 CSS text inserted verbatim between the document's `<style>` tags. This must be `<!--` wrapped in HTML comments `-->`. The default is quite reasonable.

If you wish to source a CSS file instead of inserting the text directly, you can override the `eggdoc-style` tag in the default stylesheet to do so.

eggdoc:make-defsig [procedure]
 (eggdoc:make-defsig TAG SIG . [BODY])

Use this procedure inside a stylesheet to generate a new signature tag, just like `procedure` or `macro`. It expands to a `(definition (signatures (signature ...)))` expression. For example,

```
(eggdoc->html doc '( ,@(eggdoc:make-stylesheet doc)
                    (constant *macro* . ,eggdoc:make-defsig)
                    (method   *macro* . ,eggdoc:make-defsig) ))
```

will create new `constant` and `method` tags.

2.1 Subsections

Document section tags must be nested in the order `section -> subsection -> subsubsection -> subsubsubsection`. You may not nest section tags of the same level, as in `(section "name" (section ...))`, and you may not skip a level. `eggdod` won't complain if you violate these rules—the HTML driver is pretty lax—but the appearance will be off and `eggdod-texinfo` will fail on such a document. `eggdod-texinfo` is more sensitive to malformed documents, so it is recommended to generate `.info` and `.pdf` output as well to ensure your document is correct.

`documentation`, `examples`, and `license` are `section` tags in disguise. In particular, `(documentation (section ...))` is invalid; use `(documentation (subsection ...))`.

3 Examples

Complete examples for the Chicken extensions `args`, `doctype`, `eggdok`, `hostinfo`, `sxml-tools`, `sxml-transforms`, and `vector-lib` are provided in the egg under `src/`. These all validate as XHTML Strict 1.0.

Also, `eggdok` has become the standard documentation tool for Chicken eggs, and an `eggdok` source file is included in many eggs. Unpack (untar) the egg by hand, or browse the SVN egg repository, to access the source.

4 License

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