

Argot – version 1.0-alpha

<http://argot.x9c.fr>

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Introduction

Argot is an enhanced HTML generator for the `ocamldoc` comment-extraction tool for the Objective Caml language¹. Its name stems from the following acronym: *Argot is a Raised Generator for the Ocamldoc Tool*.

Argot, in its 1.0-alpha version is designed to work with version 3.12.0 of Objective Caml. Argot is released under the GPL version 3. This licensing scheme should not cause any problem, as documentation generation will not contaminate code.

Bugs and requests for enhancement should be reported at <http://bugs.x9c.fr>.

Building Argot

Argot can be built from sources using `make` (in its GNU Make 3.81 flavor), and Objective Caml version 3.12.0. No other dependency is needed. Following the classical Unix convention, the build and installation process consists in these three steps:

1. `sh configure`
2. `make all`
3. `make install`

During the first step, one can specify elements if they are not correctly inferred by the `./configure` script; the following switches are available:

- `-ocaml-prefix` to specify the prefix path to the Objective Caml installation (usually `/usr/local`);
- `-ocamlfind` to specify the path to the `ocamlfind` executable (notice that the presence of `ocamlfind`² is optional, and that the tool is used only at installation if present).

During the third and last step, according to local settings, it may be necessary to acquire privileged accesses, running for example `sudo make install`.

¹The official Caml website can be reached at <http://caml.inria.fr> and contains the full development suite (compilers, tools, virtual machine, *etc.*) as well as links to third-party contributions.

²Findlib, a library manager for Objective Caml, is available at <http://projects.camlcity.org/projects/findlib.html>

Running Argot

Once installed, using Argot is as simple as switching from:

```
ocamldoc -html -d destination-path files
```

to:

```
ocamldoc -i argot-path -g argot.cmo -d destination-path files
```

where *argot-path* is ‘ocamlfind query argot’ when installed through ocamlfind, and to either:

```
ocamldoc -i +custom -g argot.cmo -d destination-path files  
or ocamldoc -g argot.cmo -d destination-path files
```

if not installed through ocamlfind.

Using Argot

Text formatting

In addition to the already available {b ...} (for bold), {i ...} (for italic), and {e ...} (for emphasized), Argot provides the following text formatting modifiers:

- {s ...} for stroke;
- {u ...} for underline;
- {h ...} for highlight.

Images

It is possible to include images into the generated pages through {image *path*}. The image data will be directly embedded into the page using base64 format, in such a way that no external link remains in the generated HTML. There is thus no need to package the image along with the HTML pages.

Tables

In order to define tables, the following elements can be used:

- {table ...} to actually define a table;
- {caption ...} to define its associated caption;
- {row ...} to add a row to the table;
- {header ...} to add an header cell to the row;
- {data ...} to add a data cell to the row.

Here is an example of a complete table definition:

```
{table {caption the caption}  
  {row {header key} {header value}}  
  {row {data key1} {data {i data1}}}  
  {row {data key2} {data {i data2}}}}
```

Token substitution

Token substitution allows one to use the value of either an environment variable or a command-line switch into an HTML page. This may for example be useful to insert the current date, or to specify the path of an element at documentation generation time:









```
{token DATE}  
file {token FILE_PATH}/file.ext
```

The value of a token is first search in `-define id value` switches passed to the `ocamldoc` tool, and then searched among the environment variables.

Additional tags

Argot also defines a bunch of new tags that can be used to enhance documentation. Some of these tags come with image icons; these have been designed by Mark James, released under the Creative Commons Attribution 2.5 License, and are available at <http://www.famfamfam.com/lab/icons/silk/>.

The additional tags are:

- `@obvious`, a bare placeholder;
- `@typevar`, to document type variables in the same way `@param` is used for parameters;
- `@alias`, `@synonym`, and `@equivalent`, to define synonyms or equivalences;
- `@todo`, or `@unimplemented`, to mark an implementation-in-progress;
- `@todoc`, or `@docme`, to mark a documentation-in-progress;
- `@tofix`, or `@fixme`, to mark a fix-in-progress;
- `@stateful`, to mark that a given function relies on a state;
- `@threadsafe`, to mark that a given function can be used in a multithread context;
- `@threadsafe`, to mark that a given function cannot be used in a multithread context;
- `@attention`, to introduce text by the  icon;
- `@bug`, to introduce text by the  icon;
- `@error`, to introduce text by the  icon;
- `@info`, to introduce text by the  icon;
- `@new`, to introduce text by the  icon;
- `@note`, to introduce text by the  icon;
- `@remark`, to introduce text by the  icon;
- `@warning`, to introduce text by the  icon.