Cyrax *Release 2.7*

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CHAPTER 1

What's Cyrax?

Cyrax is a static site generator using Jinja2 template engine.

It's inspired from Jekyll and Hyde site generators and started when I realized that I'm dissatisfied with both of them by different reasons. When I tried to come up with name I remembered my favourite character from Mortal Kombat 3 so here we go.

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Installation

Well, it's quite simple, as usually:

pip install cyrax

If you've cloned repository, then maybe you want to know that Cyrax depends on Jinja2 template library.

CHAPTER 3

Usage

Run ./cyrax. Look at content subdirectory for example site.

Contents:

3.1 File formats

3.1.1 Configuration format

Basically configuration format is a list of key-value pairs, where each pair should be located on a separate line, like this:

```
title: Some title author: Some author
```

It can contain different data formats, namely:

• list

```
key: [list, of, values]
```

• dictionary

```
key: {key: value, key: value}
```

• date

```
key: date: yyyy-mm-dd HH:MM:SS
```

This format is currently the only one which is supported.

• boolean value

```
key: true
key: false

Case insensitive, with possible values for ``True``: `true`, `yes`,
`on`. For ``False`: `false`, `no`, `off`.
```

Everything else is a string, with an exception for fields with name date - value of those are checked to be a date value. In other case, string is returned.

3.1.2 Template formats

Jinja2 is used as a template engine, so basic template (leading to identification of page as Page object) is a Jinja2 template, which extends parent template.

Every Jinja2 template in Cyrax can use {% meta %} ... {% endmeta %} tag, which should contain text in *Configuration format*, setting up and overrding options for current page.

Parent template

Each entry has a parent_html, from which it will be inherited. It is determined by model name, as _<lowered model name>.html. In case it does not exist, _base.html is used (can be overridden, see parent_tmpl in Configuration).

3.1.3 Models

There are few models for different templates coming with Cyrax predefined, and you can define your own using a sitecallback *Configuration* variable by adding new models to cyraxlib.models.TYPE LIST.

Models are just descendants of an object, defining py:classmethod: check(entry) which should determine if passed entry is an instance of a given model. Another requirement is py:method: get_relative_url(), which should return URL where rendered entry will be located, relative to site root.

Common configuration variables:

- isdir (default: True) should current entry be rendered as a directory with index. html inside or a simple file.
- type (default: None) predefine type of current entry, without running check () from every model.

NonHTML

Model for entries whose extension doesn't end with .html, usually last of models in TYPE_LIST. isdir returns False by default.

Page

Page is a model for single html pages and it's check () returns True if path ends with .html. Does nothing special.

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Post

Model for a blog post, determined by checking if it's name is prepended with a date (either separated by dashes or by slashes, f.e. 'blog/2010/03-14-some-post.html').

Special behavior contains adding itself to a sorted collection of posts on a Site object (site.posts) and by adding tag from tags to a sorted collection of tags on Site object (site.tags).

Configuration variables:

• tags (default: []) - list of tag names.

Tag

Entry for a tag. Most of the special behavior is done by adding an event handler to site-travered signal, which adds virtual pages for tags.

3.2 Cyrax usage

Main executable is cyrax. Run it in a directory with site sources to compile your site. It expects file *settings.cfg* in a directory it's started in.

3.2.1 Configuration

settings.cfg is a main site configuration file and has to be written in a simple *Configuration format*. Possible configuration options used by Cyrax core:

- parent_tmpl name of parent template for a Page object. Defaults to _base.html.
- exclude list of filenames (or glob patterns) to exclude from resulting site.
- sitecallback Python path to function, which takes a Site object as an argument before traversing tree of files and can perform some modifications to behavior of Cyrax. Example.

Any other options will be set on your Site object, which is available in any template under name of site.

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