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# **bg.crawler Documentation**

***Release 0.2***

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`bg.crawler` is a command-line frontend for feeding a tree of files (a directory) into a Solr for indexing.



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## Requirements

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- Python 2.6 or Python 2.7 (no support for Python 3)
- `curl`





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### Installation

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- use `easy_install bg.crawler` - this should install a script `solr-crawler` inside the `bin` folder of your Python installation. You are strongly encouraged to use `virtualenv` for creating a virtualized Python environment.



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## Usage

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### Command line options:

```
usage: solr-crawler [-h] [--solr-url SOLR_URL]
                  [--render-base-url RENDER_BASE_URL]
                  [--max-depth MAX_DEPTH] [--commit-after COMMIT_AFTER]
                  [--tag TAG] [--clear-all] [--optimize] [--guess-encoding]
                  [--clear-tag SOLR_CLEAR_TAG] [--verbose] [--no-type-check]
                  <directory>
```

A command-line crawler for importing all files within a directory into Solr

### positional arguments:

<directory>            Directory to be crawled

### optional arguments:

```
-h, --help                    show this help message and exit
--solr-url SOLR_URL, -u SOLR_URL
                           SOLR server URL
--render-base-url RENDER_BASE_URL, -r RENDER_BASE_URL
                           Base URL for server delivering crawled content
--max-depth MAX_DEPTH, -d MAX_DEPTH
                           maximum folder depth
--commit-after COMMIT_AFTER, -C COMMIT_AFTER
                           Solr commit after N documents
--tag TAG, -t TAG            Solr import tag
--clear-all, -c             Clear the Solr indexes before crawling
--optimize, -O               Optimize Solr index after import
--guess-encoding, -g        Guess encoding of input data
--clear-tag SOLR_CLEAR_TAG
                           Remove all items from Solr indexed tagged with the
                           given tag
--verbose, -v                Verbose logging
--no-type-check, -n         Do not apply internal extension filter while crawling
```

Have fun!

- `--solr-url` defines the URL of the SOLR server
- **`--render-base-url` can be specified in order specify an URL prefix in order** to calculate the value of the `renderurl` field within Solr. The value of `renderurl` is the concatenation of the value for `render-base-url` and the relative path of the crawled file to the crawler start directory. This is option is useful for generating a link using the `renderurl` if the file is served through a given web server (by its URL).

- `--max-depth` limits the crawler to a given folder depth
- **`--commit-after` can be used to specify a numeric value to** import the documents into batches with a Solr commit operation after each batch instead of committing after each individual document.
- `--tag` will tag the imported document(s) with a string (this may be useful importing different document sources into Solr while supporting the option to filter by tag at query time)
- `--clear-all` clear the complete Solr index before running the import
- `--clear-tag` remove all documents with the given tag before running the import
- `--verbose` enable extensive logging
- `--no-type-check` if set: do not apply any type check filtering but instead pass all file types to Solr

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### Internals

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- uses the `python-magic` module to determine the mimetype of files to be imported
- currently deals with HTML and plain text files
- HTML files are currently parsed internally and converted to plain text



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**Sourcecode**

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<https://github.com/zopyx/bg.crawler>





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## Bug tracker

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<https://github.com/zopyx/bg.crawler/issues>



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## Solr setup

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You can use the buildout configuration from

<https://raw.githubusercontent.com/zopyx/bg.crawler/master/solr-3.5.cfg>

as an example how to setup a Solr instance for using `bg.crawler`.

It is important that the following field type definition is available within your Solr instance:

```
index =
  name:text           type:text      stored:true
  name:title          type:text      stored:true
  name:created         type:date      stored:true required:true
  name:modified        type:date      stored:true
  name:filesize        type:integer   stored:true
  name:mimetype        type:string    stored:true
  name:id              type:string    stored:true required:true
  name:relpath         type:string    stored:true
  name:fullpath        type:string    stored:true
  name:renderurl       type:string    stored:true
  name:tag             type:string    stored:true
```

After running buildout you can start the Solr instance using:

```
bin/solr-instance fg|start
```



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### Licence

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`bg.crawler` is published under the GNU Public Licence V2 (GPL 2)



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