
urlfix

Release 0.2.2

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URLFIX: CHECK AND FIX OUTDATED URLS

`urlfix` aims to find all outdated URLs in a given file and fix them.

Features List

- [x] Commandline and programmer-friendly modes.
- [x] Replace outdated URLs/links in a single file
- [x] Replace outdated URLs/links in a directory
- [x] Replace outdated URLs/links in the same file or in the same files in a directory i.e. inplace.
- [x] Replace outdated links in files in nested directories
- [x] Replace outdated links in files in sub-nested directories

Supported file formats

`urlfix` fixes URLs given a file of the following types:

- [x] Markdown (.md)
- [x] Plain Text files (.txt)
- [x] RMarkdown (.rmd)

- [x] ReStructured Text (.rst)
- [] PDF (.pdf)
- [] Word (.docx)
- [] ODF (.odf)

Installation

The simplest way to install the latest release is as follows:

```
pip install urlfix
```

To install the development version:

Open the Terminal/CMD/Git bash/shell and enter

```
pip install git+https://github.com/Nelson-Gon/urlfix.git

# or for the less stable dev version
pip install git+https://github.com/Nelson-Gon/urlfix.git@dev
```

Otherwise:

```
# clone the repo
git clone git@github.com:Nelson-Gon/urlfix.git
cd urlfix
python3 setup.py install
```

Sample usage

Script Mode

To use at the commandline, please use:

```
python -m urlfix --mode "f" --verbose 1 --inplace 1 --inpath myfile.md
```

If not replacing within the same file, then:

```
python -m urlfix --mode "f" --verbose 1 --inplace 0 --inpath myfile.md --output-file_
↪myoutputfile.md
```

To get help:

```
python -m urlfix -h

#usage: main.py [-h] -m MODE -in INPUT_FILE [-o OUTPUT_FILE] -v {False,false,0,True,
↪true,1} -i {False,false,0,True,true,1}
#
#optional arguments:
#  -h, --help                show this help message and exit
#  -m MODE, --mode MODE      Mode to use. One of f for file or d for directory
#  -in INPUT_FILE, --input-file INPUT_FILE
#                           Input file for which link updates are required.
#  -o OUTPUT_FILE, --output-file OUTPUT_FILE
#                           Output file to write to. Optional, only necessary if not_
↪replacing inplace
#  -v {False,false,0,True,true,1}, --verbose {False,false,0,True,true,1}
#                           String to control verbosity. Defaults to True.
```

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```
# -i {False,false,0,True,true,1}, --inplace {False,false,0,True,true,1}
#           Should links be replaced inplace? This should be safe but to
↳be sure, test with an output file first.
```

Programmer-Friendly Mode

```
from urlfix.urlfix import URLFix
from urlfix.dirurlfix import DirURLFix
```

Create an object of class URLFix

```
urlfix_object = URLFix("testfiles/testurls.txt", output_file="replacement.txt")
```

Replacing URLs

After creating our object, we can replace outdated URLs as follows:

```
urlfix_object.replace_urls(verbose=1)
```

The above uses default arguments and will not replace a file inplace. This is a safety mechanism to ensure one does not damage their files.

Since we set verbose to True, we get the following output:

```
urlfix_object.replace_urls()
```

To replace silently, simply set verbose to False (which is the default).

```
urlfix_object.replace_urls()
```

If there are URLs known to be valid, pass these to the `correct_urls` argument to save some time.

```
urlfix_object.replace_urls(correct_urls=[urls_here]) # Use a Sequence eg tuple, list,
↳etc
```

Replacing several files in a directory

To replace several files in a directory, we can use `DirURLFix` as follows.

- Instantiate an object of class `DirURLFix`

```
replace_in_dir = DirURLFix("path_to_dir")
```

- Call `replace_urls`

```
replace_in_dir.replace_urls()
```

Recursively replacing links in nested directories

To replace outdated links in several files located in several directories, we set `recursive` to True. Currently, replacing links in directories nested within nested directories is not (yet) supported.

```
recursive_object = DirURLFix("path_to_root_directory", recursive=True)
```

We can then proceed as above

```
recursive_object.replace_urls() # provide other arguments as you may wish.
```

To report any issues, suggestions or improvement, please do so at [issues](#).

If you would like to cite this work, please use:

Nelson Gonzabato (2021) urlfix: Check and Fix Outdated URLs <https://github.com/Nelson-Gon/urlfix>

Thank you very much.

“Before software can be reusable it first has to be usable.” – Ralph Johnson

2.1 urlfix package

2.1.1 Submodules

2.1.2 urlfix.dirurlfix module

class urlfix.dirurlfix.**DirURLFix** (*input_dir, recursive=False, sub_recursive=False*)

Bases: object

Replace Outdated URLs given a directory of files.

replace_urls (***kwargs*)

urlfix.dirurlfix.**replace_urls_root** (*in_dir, recursive=False, sub_recursive=False, **kwargs*)

Parameters

- **in_dir** – Input directory
- **recursive** – Bool, should URLs be replaced in sub-directories if they exist?
- **kwargs** – Other arguments to URLFix.replace_urls
- **sub_recursive** – Bool, should URLs be replaced sub-recursively? Defaults to False.

Returns Files with outdated links validated/replaced, as requested.

2.1.3 urlfix.urlfix module

class urlfix.urlfix.**URLFix** (*input_file, output_file=None*)

Bases: object

replace_urls (*verbose=False, correct_urls=None, inplace=False*)

:param verbose Logical. Should you be notified of what URLs have moved? Defaults to False. :param correct_urls. A sequence of urls known to be correct. :param inplace. Flag for inplace update operation. :return Replaces outdated URL and writes to the specified file. It also returns the number of URLs that have changed. The latter is useful for tests.

urlfix.urlfix.**file_format** (*in_file*)

2.1.4 Module contents

Check and Fix Outdated URLs

WELCOME TO URLFIX'S CHANGELOG

urlfix 0.2.2

- Script mode now supports updating links in sub-nested directories.
- `DirURLFix` now supports replacement of outdated links in sub-nested directories.
- Now supporting ReStructured text (`.rst`) files.
- Added support for RMarkdown (`.rmd`) files.
- A `recursive` argument was added to script mode. The argument `input-file` was renamed `inpath` to reflect that this may be a file or directory.
- `DirURLFix` is now fully recursive.
- Extended tests to ensure that recursion works as expected.
- Refactored `dirurlfix`'s main replacement method to allow for greater flexibility in recursive replacements.
- Fixed a bug due to differences in file orders between Linux and Windows.
- Initial support for recursive link updates. See [#24](#).

urlfix 0.2.1

- Download URL is now automated, please release new versions as `v-version-number-here`.
- Script mode has been added as a `__main__.py` module. You can now therefore call `urlfix` at the command line/Terminal via `python -m urlfix`.
- A script mode has been added to enable commandline replacement of outdated links. See [#22](#).
- Fixed issues with links not being replaced following changes to directory replacement.
- Restored inplace replacement. Using temporary files for now. See [#15](#) and [#10](#).
- Versioning is now automated. You can now check version number via `urlfix.__version__`
- `dirurlfix` is a new module dedicate to directory replacements.
- Fixed issues with markdown links in the format `[] () [] ()` not being fully matched. See [#17](#)
- Fixed issues with double text appearing in the replacement file. Related to [Issue 20](#).
- Fixed issues with URLs not being matched if they are on the same line. [Issue #20](#).
- Users are now warned if a target URL is outdated and no newer URL exists. See [#18](#)
- Fixed issues with text loss in output markdown files. See [#16](#)
- Fixed issues with tests failing when run [consecutively](#)
- Inplace replacement is no longer supported via the `inplace=True` argument.

- Replacement of files now supports adding exceptions that is URLs whose links are known to be valid.
- Added support for automatic detection of file extensions negating the need to manually specify file formats.
- Initial support for directory replacements, thanks to [nirolada](#).

urlfix 0.2.0

- `show_parsed_urls` was dropped. Future plans to find a better way to validate matched URLs.
- `find_links` was dropped. Everything is now done under `replace_urls`.
- `URLFix` is a new class to make it easier to write class methods and access class variables.
- `show_parsed_urls` is no longer necessary and may be dropped in future versions.
- `replace_urls` was refactored to avoid unnecessary loops that would otherwise slow down the process.
- Extended sanity tests to ensure that input and output files exist.
- `returned_matched` was dropped in `replace_urls`. Use `show_parsed_urls` for low level returns.
- `verbose` in `replace_urls` is now more human friendly by providing the actual name of the output file.
- Updated `testurls.md` to ensure only markdown like links are replaced.
- The regular expression in `find_links` was replaced with a more robust one.
- `visit_urls` was renamed to `replace_urls` and extended to allow inplace replacement (or not) as well as writing to an output file.
- `fixurls` was renamed to `urlfix`.
- `check_url` was removed but may be replaced.
- Add more sanity checks to ensure that the regular expressions used work as detected.
- Made expected formats and return types more explicit.
- Initial support for tests.
- Fixed issues with installation

urlfix 0.1.0

- Initial release to preserve name on PyPI.

CONTRIBUTING TO URLFIX

This document provides guidelines for contributions to `urlfix`.

Kinds of contribution

- Typo fixes
- Documentation enhancements
- Pull requests

Fixing typos and enhancing documentation

To fix typos and/or grammatical errors, please edit the corresponding `.py` or `.md` file that generates the documentation.

Please also update the docs using `sphinx`

Pull Requests

- Please raise an issue for discussion and reproducibility checks at [issues](#)
- Once the bug/enhancement is approved, please create a Git branch for the pull request.
- Make changes and ensure that builds are passing the necessary checks on Travis.
- Update `changelog.md` to reflect the changes made.
- Do the following:

```
bash scripts/mkdocs.sh
```

Commit messages

Please write commit messages in the format “Extends functionality” instead of “Extended functionality”.

Releasing

```
bash scripts/release.sh
```

The above does the following:

- Makes dist with `python setup.py sdist` at the very minimum. Ensure everything necessary is included in `Manifest.in`.
- Uploads dist to `test.pypi.org` with `twine upload --repository-url https://test.pypi.org/legacy/ dist/*`
- If everything looks good, asks you to upload to `pypi.org` with `twine upload dist/*`

Please note that the ‘urlfix’ project is released with a [Contributor Code of Conduct](#). By contributing to this project, you agree to abide by its terms.

[See also](#) for a guide on Sphinx documentation.

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