
jaraco.windows

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May 02, 2020

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HISTORY

1.1 v5.0.0

Require Python 3.6 and later.

1.2 4.0

01 Jan 2019

Switch to `pkgutil namespace technique` for the `jaraco namespace`.

1.3 3.9.2

25 Sep 2018

- #14: Ensure handle is closed in `filesystem.get_file_info`.

1.4 3.9.1

16 Apr 2018

- #13: Fixed `TypeError` on Python 3 in `clipboard.get_html()`.

1.5 3.9

01 Feb 2018

- Added new module `jaraco.windows.filesystem.backports` with `realpath` backport from `issue9949-v4.patch`.

1.6 3.8.1

04 Jan 2018

- #11: `jaraco.windows.api.filesystem` now relies on `ctypes.wintypes.WIN32_FIND_DATAW`, avoiding conflict with `scandir`.

1.7 3.8

29 Dec 2017

- #10: Added new method to `jaraco.windows.filesystem`:
 - `samefile`: backport of `os.path.samefile` from Python 3.2 with Windows support for Python 2.7.

1.8 3.7.1

26 Dec 2017

- Fixed `AttributeError` in `get_final_path`.

1.9 3.7

26 Apr 2017

- Update reference to `path.Path` for compatibility with `path.py` 10.
- Configured project to use `AppVeyor` for tests.

1.10 3.6.3

27 Aug 2016

- Re-release using `pypi.org` to avoid caching issues.

1.11 3.6.2

27 Aug 2016

- **Issue #8**: Correct argtype to `c_size_t` in `GlobalAlloc`. Better aligns with advertised API and improves Python version support.

1.12 3.6.1

21 Jul 2016

- [Issue #7](#): Added declarations of arguments and result types to some ctypes calls, correcting intermittent test failures.

1.13 3.6

29 Jan 2016

- Moved hosting to Github.

1.14 3.5

18 Nov 2015

- [Issue #6](#): Fix TypeError in os.readlink.
- Updated project skeleton to include documentation and wheel releases.

1.15 3.4.1

10 Nov 2015

- [Issue #5](#): Fix ValueError in mmap memory copy routine on 32-bit systems.

1.16 3.4

16 Jun 2015

- Add `set_html` function to `clipboard` module.

1.17 3.3

08 May 2015

- Backported [#193](https://github.com/paramiko/paramiko/issues/193) <<https://github.com/paramiko/paramiko/issues/193>>_ (change). Use `RtlMoveMemory` in favor of `memcpy`.
- Fixed `AccessViolation` on Python 3 in `mmap` module.
- Fixed `AttributeError` in `security` module.

1.18 3.2

26 Feb 2015

- Dropped dependency on jaraco.util in favor of smaller packages.

1.19 3.1.2

15 Dec 2014

- Correct typo in jaraco.windows.api.filesystem (Issue #4).

1.20 3.1.1

26 Oct 2014

- Correct invocation of enver.

1.21 3.1

13 Aug 2014

- Added clipboard.get_image helper.

1.22 3.0.1

12 Aug 2014

- Substantial fixes on Python 3.
- Fixed regression in clipboard module.
- Restored changes from 2.16, unintentionally omitted from 3.0.

1.23 3.0

10 Aug 2014

- Moved many of the API definitions to the jaraco.windows.api package.

1.24 2.16

19 Jul 2014

- Allow `envver` to be invoked with `python -m jaraco.windows.envver`
- Add nominal support for credential vault.

1.25 2.15.1

01 Dec 2013

- Fixed constants around `power.no_sleep`.

1.26 2.15

26 Jun 2013

- Improved Python 3 support including working `gclip` and `pclip` commands.

1.27 2.14

21 Apr 2013

- Added `py2exe` support to the package.

1.28 2.13.2

13 Apr 2013

- Improvements to file change handling, reducing duplicates.

1.29 2.13

20 Dec 2012

- Added `no_sleep` context manager to the `power` module.

1.30 2.12

17 Dec 2012

- Added *add* method to the environ `RegisteredEnvironments`. Use it to add a value to a list of values but only if it's not already present.

1.31 2.11.1

07 Dec 2012

- Fixed issue in `set_unicode_text`.

1.32 2.11

07 Dec 2012

- Add `clipboard.set_unicode_text`.

1.33 2.10

23 Nov 2012

- Fixed issue where `MemoryMap` wouldn't read null bytes.
- Added `security.get_security_attributes_for_user`.

1.34 2.9

22 Nov 2012

- Added `mmap` module with `MemoryMap` class. This class allows the client to specify `SECURITY_ATTRIBUTES`, which the Python `mmap` module does not.
- Added `security` module with support for security descriptors and security attributes.

1.35 2.8

28 Sep 2012

- Added `vpn` module with support for creating PPTP connections.

1.36 2.7

03 Apr 2012

- Added `filesystem.SetFileAttributes`

1.37 2.6

26 Jan 2012

- Fixed import issue in `jaraco.windows.filesystem` on Python 3.
- Added `cookie` module from `jaraco.net`.
- Fixed issue in `filesystem.islink()` where a call against a nonexistent file could raise an `Exception`.

1.38 2.5

01 Nov 2011

- Moved `timers` module from `jaraco.util`.
- Added `jaraco.windows.cred` with initial support for Windows Credential Manager.

1.39 2.4

22 Aug 2011

- Moved `filechange` notification from `jaraco.util`.

1.40 2.3

15 Jun 2011

- Added `filesystem.GetFileAttributes`.
- Added `services` module for working with Windows Services (currently uses `pywin32`).

1.41 2.2

22 May 2011

- Fixes by `wkornwald` for issue #1 - Symlink relative path deficiencies.
- Added `jaraco.windows.message.SendMessageTimeout`.
- Fixed issue where environment changes would stall on `SendMessage`.
- `SendMessage` now uses the correct type for `IParam`, but will still accept string types.

1.42 2.1

17 Mar 2011

- Added jaraco.windows.user module (with get_user_name function).
- Added get_unicode_text to clipboard module.

1.43 2.0

06 Dec 2010

- Added clipboard.set_text function for a simple routine for setting clipboard text.
- Added support for editing environment variables in a text-editor.
- Added clipboard.get_html and clipboard.HTMLSnippet for supporting the HTML format from the clipboard.

1.44 1.9.1

25 Aug 2010

- Fixed issue with clipboard handling of null-terminated strings

1.45 1.9

03 Aug 2010

- Added eventlog utility
- Added support for other clipboard formats (including DIB and DIBV5), and now clipboards to proper memory locking while reading the resource
- Added registry module
- Moved office module to jaraco.office project

1.46 1.8

10 Apr 2010

- Added 2to3 build support - now installs on Python 3
- Removed default import of jaraco.windows.net into jaraco.windows
- Fixed division operator issue in jaraco.windows.reparse.

1.47 1.7

- Added option to `enver` to remove values from a path or other semi- colon-separated value.
- Added `privilege` module.
- Made `jaraco.windows.error.WindowsError` a subclass of `__builtin__.WindowsError`.
- Added `office` module with MS Word based PDF Converter.
- Added early implementation of clipboard support.
- Added `delay` option to `xmouse`.

1.48 1.6

- Added monkeypatch for `os.symlink` and `os.readlink`.
- Added `find-symlinks` command.

1.49 1.5

- NB!! Switched the order of the parameters for `symlink` and `link` to match the signature found in the `os` module. This will absolutely break any implementations that worked with `jaraco.windows` prior to 1.5.

1.50 1.4

- Added more robust support for `symlink` support (including a `symlink` traversal routine that works even when the target is locked). This method uses explicit reparse point parsing, using the new `reparse` module.
- Added support for `hardlinks`.
- Added `jaraco.windows.lib` for locating loaded modules.
- Added command line parameters to `environ` to allow override of default `append/replace` behavior.
- Added `power` monitoring utilities.
- Began work on GUI testing objects in `jaraco.windows.gui.test`, based on `watsup`.
- Added `filesystem.GetBinaryType`
- Added `filesystem.SHFileOperation` (useful for sending items to a Recycle Bin).
- Updated `enver` to support appending to a non-existent variable.
- Added a `'show'` option to `xmouse`
- Added routines to support the Microsoft Data Protection API (DPAPI).

1.51 1.3

- Added -U option to enver

1.52 1.2

- Added this documentation
- Updated the project website to use PYPI directly.
- Improved deployment support (fixes issues with easy_install)
- Fixed issue with PATH and PATHEXT handling in enver.

1.53 1.1

- Added support for persistent environment variable setting (inspired by enver.py)

1.54 1.0

- Initial release
- Includes xmouse script for enabling/disabling focus-follows-mouse

cookies.py

Cookie support utilities

```
class jaraco.windows.msie.CookieMonster
```

```
    Bases: object
```

```
    Read cookies out of a user's IE cookies file
```

```
    property cookie_dir
```

```
    entries (filename)
```

```
    static is_not_cookie_delimiter (s)
```

```
    static make_cookie (key, value, domain, flags, ExpireLow, ExpireHigh, CreateLow, CreateHigh)
```

```
jaraco.windows.ui.MessageBox (text, caption=None, handle=None, type=None)
```

```
class jaraco.windows.util.Extended
```

```
    Bases: object
```

```
    Used to add extended capability to structures
```

```
jaraco.windows.util.ensure_unicode (param)
```

```
jaraco.windows.vpn.install_pptp (name, param_lines)
```

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