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# **yq Documentation**

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# CHAPTER 1

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## Installation

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```
pip install yq
```

Before using `yq`, you also have to install its dependency, `jq`. See the [jq installation instructions](#) for details and directions specific to your platform.

On macOS, `yq` is also available on [Homebrew](#): use `brew install python-yq`.



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### Synopsis

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`yq` takes YAML input, converts it to JSON, and pipes it to `jq`:

```
cat input.yml | yq .foo.bar
```

Like in `jq`, you can also specify input filename(s) as arguments:

```
yq .foo.bar input.yml
```

By default, no conversion of `jq` output is done. Use the `--yaml-output/-y` argument to convert it back into YAML:

```
cat input.yml | yq -y .foo.bar
```

Use the `--width/-w` argument to pass the line wrap width for string literals. All other command line arguments are forwarded to `jq`. `yq` forwards the exit code `jq` produced, unless there was an error in YAML parsing, in which case the exit code is 1. See the [jq manual](#) for more details on `jq` features and options.

YAML `tags` in the input are ignored (any nested data is treated as untagged). Key order is preserved.





## CHAPTER 3

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### XML support

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`yc` also supports XML. The `yc` package installs an executable, `xq`, which transcodes XML to JSON using `xmltodict` and pipes it to `jq`. Roundtrip transcoding is available with the `xq --xml-output/xq -x` option. Multiple XML documents can be passed in separate files/streams as `xq a.xml b.xml`. Entity expansion and DTD resolution is disabled to avoid XML parsing vulnerabilities.

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#### Compatibility note

This package's release series available on PyPI begins with version 2.0.0. Versions of `yc` prior to 2.0.0 are distributed by <https://github.com/abesto/yc> and are not related to this package. No guarantees of compatibility are made between `abesto/yc` and `kislyuk/yc`. This package follows the [Semantic Versioning 2.0.0](#) standard. To ensure proper operation, declare dependency version ranges according to SemVer.

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## CHAPTER 4

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### Authors

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- Andrey Kislyuk



- [Project home page \(GitHub\)](#)
- [Documentation \(Read the Docs\)](#)
- [Package distribution \(PyPI\)](#)
- [Change log](#)
- [jq - the command-line JSON processor utility powering yq](#)

## 5.1 Bugs

Please report bugs, issues, feature requests, etc. on [GitHub](#).



## CHAPTER 6

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License

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Licensed under the terms of the [Apache License, Version 2.0](#).





## CHAPTER 7

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API documentation

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## CHAPTER 8

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Release Notes

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## CHAPTER 9

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### Changes for v2.7.0 (2018-08-04)

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- TOML support with the tq executable entry point.
- Disallow argparse abbreviated options. Fixes #38 on Python 3.5+.
- Now available in Homebrew as python-yq.



## CHAPTER 10

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### Changes for v2.6.0 (2018-04-28)

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- Packaging: Replace scripts with entry-points
- Packaging: Package the license file





# CHAPTER 11

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## Changes for v2.5.0 (2018-04-02)

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- Parse unrecognized tags instead of dropping them. Fixes #23



## CHAPTER 12

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### Changes for v2.4.1 (2018-02-13)

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- Ignore unrecognized YAML tags instead of crashing
- Explicitly disable XML entity expansion and mention in docs
- xq -x: Raise understandable error on non-dict conversion failure



## CHAPTER 13

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Changes for v2.4.0 (2018-02-08)

---

- Support XML parsing with xmldict



## CHAPTER 14

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### Changes for v2.3.7 (2018-02-07)

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- Fix for the `-from-file/-f` argument: Re-route `jq_filter` to files when using `-from-file`. Fixes #19.





## CHAPTER 15

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### Changes for v2.3.6 (2018-01-29)

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- Parse and pass multiple positional-consuming jq args



## CHAPTER 16

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### Changes for v2.3.5 (2018-01-29)

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- Support jq arguments that consume subsequent positionals (such as `-arg k v`) (#16).



## CHAPTER 17

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### Changes for v2.3.4 (2017-12-26)

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- Support bare YAML dates and times. Fixes #10



## CHAPTER 18

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### Changes for v2.3.3 (2017-09-30)

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- Avoid buffering all input docs in memory with no -y
- End all json.dump output with newlines. Close all input streams. Fixes #8. Thanks to @bubbleattic for reporting.





## CHAPTER 19

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Changes for v2.3.2 (2017-09-25)

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- Fix test suite on Python 3



## CHAPTER 20

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### Changes for v2.3.1 (2017-09-25)

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- Add support for multiple yaml files in arguments. Thanks to @bubbleattic (PR #7)



## CHAPTER 21

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### Changes for v2.3.0 (2017-08-27)

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- Handle multi-document streams. Fixes #6
- Report version via `yq -version`



## CHAPTER 22

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### Changes for v2.2.0 (2017-07-07)

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- Stringify datetimes loaded from YAML. Fixes #5





## CHAPTER 23

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### Changes for v2.1.2 (2017-06-27)

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- Fix ResourceWarning: unclosed file
- Internal: Make usage of loader argument consistent
- Documentation improvements



## CHAPTER 24

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### Changes for v2.1.1 (2017-05-02)

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- Fix release script. Release is identical to v2.1.0.



## CHAPTER 25

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### Changes for v2.1.0 (2017-05-02)

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- `yq` now supports emitting YAML (round-trip YAML support) using `"yq -y"`. Fixes #2.
- Key order is now preserved in mappings/objects/dictionaries.
- Passing input files by filename as an argument is now supported (in addition to providing data on standard input).



## CHAPTER 26

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### Changes for v2.0.2 (2017-01-16)

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- Test and documentation improvements





## CHAPTER 27

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Changes for v2.0.1 (2017-01-14)

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- Fix description in setup.py



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### Changes for v2.0.0 (2017-01-14)

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- Begin 2.0.0 release series. This package's release series available on PyPI begins with version 2.0.0. Versions of `yq` prior to 2.0.0 are distributed by <https://github.com/abesto/yq> and are not related to this package. No guarantees of compatibility are made between `abesto/yq` and `kislyuk/yq`. This package follows the `Semantic Versioning 2.0.0` `<http://semver.org/>` standard. To ensure proper operation, declare dependency version ranges according to SemVer. See the `Readme` for more information.



## CHAPTER 29

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