# dotapatch Documentation

Release 2.4.4

**Arthur Zopellaro** 

# Using dotapatch

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**dotapatch** is a software which aims the automation of formatting simple text changelog into clear html changelog.

Check the Gameplay Update 7.07d. This is the latest patch parsed using **dotapatch**.

Using dotapatch 1

2 Using dotapatch

Quickstart

#### **Contents**

- Quickstart
  - Installing dotapatch
  - Gathering a new changelog
  - Running dotapatch

### 1.1 Installing dotapatch

Install dotapatch using pip:

Note: If you get an OSError, run pip install --user dotapatch instead.

## 1.2 Gathering a new changelog

1. Go to dota2 news page and locate the latest **patch**.

2. Copy and save it as a file.

```
7.07d:
==

* Necronomicon: Mana Break damage from 60 to 50%

* Nullifier: Cooldown reduced from 14 to 13

* Nullifier: Manacost reduced from 100 to 75

* Alchemist: Unstable Concoction damage increased from 150/220/290/360 to 160/240/320/

400

* Bane: Enfeeble duration reduced from 20 to 14/16/18/20

* Bane: Brain Sap damage rescaled from 90/160/230/300 to 75/150/225/300
```

Warning: The content must start with the patch name 7.07d: followed by a separator ==.

### 1.3 Running dotapatch

Head over to the folder where you saved the changelog file and run **dotapatch**:

```
$ cd changelogs
$ dotapatch 706f
INFO Parsing 7.06f
INFO HTML saved at /home/arthurazs/changelogs/706f.html
INFO 7.06f conversion went smoothly.
```

**Note:** If the HTML page shows some of the heroes/items as [[hero\_name]] instead of the hero/item's picture, run the following:

```
$ dotapatch --update-data
INFO Downloading itemdata from dota2's heropediadata
INFO Updated itemdata saved successfully
INFO Downloading herodata from dota2's heropediadata
INFO Updated herodata saved successfully
```

This will require internet connection and may take a while but it will ensure that the HeropediaData gets up-to-date.

## Getting started

#### **Contents**

- Getting started
  - Requirements
  - Installing dotapatch
  - Gathering a new changelog
  - Running dotapatch
    - \* Optional Arguments

## 2.1 Requirements

You will need python.

```
$ sudo apt-get install python
```

## 2.2 Installing dotapatch

#### Install dotapatch using pip:

```
$ pip install dotapatch
Collecting dotapatch
...
Successfully installed dotapatch-2.4
$ dotapatch
```

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```
usage: dotapatch [-h] [-t template_file] [-u] [-V] [-d] [-s] [-q] [changelog_file [changelog_file ...]]
```

Note: If you get an OSError, run pip install --user dotapatch instead.

Or clone/download the repository, head over to the folder and install it using the setup.py:

```
$ git clone https://github.com/arthurazs/dotapatch.git
Cloning into 'dotapatch'...
...
Checking connectivity... done.
$ cd dotapatch
$ python setup.py install
$ dotapatch
usage: dotapatch [-h] [-t template_file] [-u] [-V] [-d] [-s] [-q]
[changelog_file [changelog_file ...]]
```

**Note:** You can also use **dotapatch** without installing it:

### 2.3 Gathering a new changelog

- 1. Go to dota2 news page and locate the latest **patch**.
- 2. Copy and save it as a file.

```
7.07d:
==

* Necronomicon: Mana Break damage from 60 to 50%

* Nullifier: Cooldown reduced from 14 to 13

* Nullifier: Manacost reduced from 100 to 75

* Alchemist: Unstable Concoction damage increased from 150/220/290/360 to 160/240/320/

→400

* Bane: Enfeeble duration reduced from 20 to 14/16/18/20

* Bane: Brain Sap damage rescaled from 90/160/230/300 to 75/150/225/300
```

**Warning:** The content **must** start with the patch name 7.07d: followed by a separator ==.

### 2.4 Running dotapatch

Head over to the folder where you saved the changelog file and run **dotapatch**:

```
$ cd changelogs
$ dotapatch 706f
INFO Parsing 7.06f
INFO HTML saved at /home/arthurazs/changelogs/706f.html
INFO 7.06f conversion went smoothly.
```

**Note:** If the HTML page shows some of the heroes/items as [[hero\_name]] instead of the hero/item's picture, run the following:

```
$ dotapatch --update-data
INFO Downloading itemdata from dota2's heropediadata
INFO Updated itemdata saved successfully
INFO Downloading herodata from dota2's heropediadata
INFO Updated herodata saved successfully
```

This will require internet connection and may take a while but it will ensure that the HeropediaData gets up-to-date.

Note: If you haven't installed dotapatch, head over to the dotapatch folder and run it as a module:

```
$ cd dotapatch
$ python -m dotapatch /home/arthurazs/changelogs/706f
INFO Parsing 7.06f
INFO HTML saved at /home/arthurazs/dotapatch/706f.html
INFO 7.06f conversion went smoothly.
```

You may also run **dotapatch** stating the full path to the changelog file:

```
$ dotapatch /home/arthurazs/changelogs/706f
INFO Parsing 7.06f
INFO HTML saved at /home/arthurazs/706f.html
INFO 7.06f conversion went smoothly.
```

#### **Note:** It's possible to parse many changelogs at once:

```
$ cd changelogs
$ dotapatch 706f 707b 707d
INFO Parsing 7.06f
INFO HTML saved at /home/arthurazs/changelogs/706f.html
INFO 7.06f conversion went smoothly.
INFO Parsing 7.07b
INFO HTML saved at /home/arthurazs/git/dotapatch/707b.html
WARNING 7.07b had 1 line under GENERAL updates:
* Backdoor Protection damage reduction increased from 25% to 40%

This line might be a hero/item update and you should manually place it at the proper location.
INFO Parsing 7.07d
INFO HTML saved at /home/arthurazs/changelogs/707d.html
```

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```
WARNING 7.07d had 3 lines under GENERAL updates:

* Added the following abilities to Ability Draft: Fire Remnant, Psionic Trap, Chakram

* Neutral Ancients gold bounties reduced by 10%

* Arcane Rune: Manacost Reduction reduced from 40% to 30%

Some of these lines might be hero/item updates and you should manually place them at the proper location.
```

#### 2.4.1 Optional Arguments

There are some optional arguments that you can use:

```
$ dotapatch -h
usage: dotapatch [-h] [-t template_file] [-u] [-V] [-d] [-s] [-q]
              [changelog_file [changelog_file ...]]
Parses Dota 2 text patches to html format.
positional arguments:
changelog_file
                   changelog to be formated
optional arguments:
-h, --help
                    show this help message and exit
-t template_file, --template template_file
                     base template to generate HTML
                   force heropediadata update
-u, --update-data
-V, --version
                    show program's version number and exit
logging arguments:
                   set verbosity level to DEBUG
-d, --debug
-s, --save-log
                   save log output
-q, --quiet
                    less verbose
$ dotapatch --version
dotapatch: v2.3.2
$ dotapatch --update-data
INFO Downloading itemdata from dota2's heropediadata
INFO Updated itemdata saved successfully
INFO Downloading herodata from dota2's heropediadata
INFO Updated herodata saved successfully
$ dotapatch 706f --update-data
INFO Downloading itemdata from dota2's heropediadata
INFO Updated itemdata saved successfully
INFO Downloading herodata from dota2's heropediadata
INFO Updated herodata saved successfully
INFO Parsing 7.06f
INFO HTML saved at /home/arthurazs/changelogs/706f.html
INFO 7.06f conversion went smoothly.
$ dotapatch 706f --quiet
$ dotapatch 706f --debug
```

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```
DEBUG Reading changelog.

DEBUG Parsing changelog.

INFO Parsing 7.06f

INFO HTML saved at /home/arthurazs/changelogs/706f.html

INFO 7.06f conversion went smoothly.

$ dotapatch dotapatch/changelogs/706f --save-log

INFO Recording log file at /home/arthurazs/dotapatch.log

INFO Parsing 7.06f

INFO HTML saved at /home/arthurazs/706f.html

INFO 7.06f conversion went smoothly.

$ dotapatch dotapatch/changelogs/706f --template gh-pages

INFO 7.06f using 'gh-pages' template.

INFO Parsing 7.06f

INFO HTML saved at /home/arthurazs/706f.html

INFO 7.06f conversion went smoothly.
```

#### Note:

- --update-data requires internet connection. It will ensure that the HeropediaData gets up-to-date.
- --template indicates which template is going to be used to parse the changelog. The **default** template generates a standalone HTML that uses dota2 css files.
- --debug and --quiet respectively increase and decrease dotapatch's verbosity.
- --save-log saves a log with maximum verbosity output.

## About dotapatch

### 3.1 IMPORTANT!

This project was archived on 17 Feb. 2019 as the oficial Dota 2 page now releases patches in Clean HTML.

| Platform | Status |
|----------|--------|
| GitHub   |        |
| PyPI     |        |
| Health   |        |

**dotapatch** is a software which aims the automation of formatting simple text changelog into clear html changelog.

Check the Gameplay Update 7.21. This is the latest patch parsed using **dotapatch**.

#### Contents

- About dotapatch
  - IMPORTANT!
  - Task List
  - Authors
    - \* Maintainers
    - \* Contributors
  - Contributing

### 3.2 Task List

- TODO see projects.
- Changelog see releases.

#### 3.3 Authors

#### 3.3.1 Maintainers

• Arthur Zopellaro

#### 3.3.2 Contributors

• No one yet

### 3.4 Contributing

Take a time to read our Code of Conduct. Any unacceptable behavior shall be reported by contacting the project team at arthurazsoares@gmail.com.

- Do you have any feedback, questions or ideias?
- Do you want to report a bug?
- Would you like to fix a bug or implement a feature?

First of all, thank you! Please, read our Contributing Guidelines for details.

This project is licensed under the MIT License.

## **Contributing Guidelines**

Please, don't forget to read our *Code of Conduct* to make sure you don't violate any of the rules.

#### Contents

- Contributing Guidelines
  - Issues
  - Pull Requests

#### 4.1 Issues

Please open a new issue if you have any feedback, questions, ideias or to report a bug.

## 4.2 Pull Requests

First you should fork the repository and make sure the tests are passing:

Then, create a test for the fix/feature you intend to code and run the test again:

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Finally, fix the bug/implement the feature. Make sure the test passes now:

Open a pull request explaining your code. Feel free to add your name as a contributor in the Authors file.

Testing dotapatch

You can test either using tox or nosetests.

It's recomended to use tox in order to test the code under several Python versions at once. Tox will automatically skip versions that are not installed, so don't worry!

#### 5.1 tox

You will need tox:

```
$ pip install tox
```

Clone/download the repository, head over to the folder and run tox:

```
$ git clone https://github.com/arthurazs/dotapatch.git
$ cd dotapatch
$ tox
GLOB sdist-make: /home/arthurazs/git/dotapatch/setup.py
py27 inst-nodeps: /home/arthurazs/git/dotapatch/.tox/dist/dotapatch-2.3.2.zip
[...]
26 tests run in 0.166 seconds (26 tests passed)
py33 create: /home/arthurazs/git/dotapatch/.tox/py33
ERROR: InterpreterNotFound: python3.3
py34 create: /home/arthurazs/git/dotapatch/.tox/py34
ERROR: InterpreterNotFound: python3.4
py35 inst-nodeps: /home/arthurazs/git/dotapatch/.tox/dist/dotapatch-2.3.2.zip
26 tests run in 0.172 seconds (26 tests passed)
py36 create: /home/arthurazs/git/dotapatch/.tox/py36
ERROR: InterpreterNotFound: python3.6
                                _ summary _
 py27: commands succeeded
```

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```
SKIPPED: py33: InterpreterNotFound: python3.3
SKIPPED: py34: InterpreterNotFound: python3.4
py35: commands succeeded
SKIPPED: py36: InterpreterNotFound: python3.6
congratulations:)
```

#### 5.2 nosetests

You will need nosetests but the setup.py will handle it.

Clone/download the repository, head over to the folder and run the test:

Code of Conduct

### 6.1 Our Pledge

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

#### 6.2 Our Standards

Examples of behavior that contributes to creating a positive environment include:

- · Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- · Gracefully accepting constructive criticism
- · Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

### 6.3 Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

### 6.4 Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

#### 6.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at arthurazsoares@gmail.com. All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or permanent repercussions as determined by other members of the project's leadership.

#### 6.6 Attribution

This Code of Conduct is adapted from the Contributor Covenant version 1.4.

# $\mathsf{CHAPTER}\ 7$

## **Authors**

Would you also like to help improving this project? Check the Contributing Guidelines!

### 7.1 Maintainers

• Arthur Zopellaro

### 7.2 Contributors

• No one yet

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#### Source Code Documentation

### 8.1 dotapatch.patch

This is the main module the core of dotapatch.

```
dotapatch.patch.parse (file_path, template='default')
Parses the changelog.
```

#### **Parameters**

- **file\_path** (*str*) Changelog to be parsed, it can either be filename or absolute\_path/filename
- **template** (*str*) Template to be used as base to parse the changelog, it can either be the name or absolute\_path/name

**Returns** status – Parsing status

Return type int

```
Note: status == 0: Conversion went smoothly
status < 0: Critical error
status >= 1: Some lines under GENERAL section should be reviewed
```

### 8.2 dotapatch.data

Module for the heropediadata api.

```
class dotapatch.data.HeropediaData
Uses dota2's heropediadata api to find the correct hero/item name.
```

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#### get\_hero\_name (line)

Searches the line for a hero name and returns its proper name.

Note: Juggernaut: base damage reduced by 2 returns juggernaut

**Parameters** line (str) – The phrase to be checked

Returns name – Proper hero name

Return type str or None

#### get\_item\_name (line)

Searches the line for an item name and returns its proper name.

Note: Dragon Lance: strength reduced from 14 to 13 returns dragon\_lance

**Parameters** line (str) – The phrase to be checked

**Returns** name – Proper item name

Return type str or None

#### classmethod sort\_hero(hero\_tuple)

Formats hero\_id to proper hero name.

Note: shredder returns timbersaw

Parameters hero\_tuple (tuple) - (name, \_)

Returns name – Proper hero name

Return type str

#### classmethod sort\_item(item\_tuple)

Formats item\_id to proper item name.

Note: sphere returns linkens sphere

**Parameters** item\_tuple (tuple) - (name, \_)

Returns name – Proper item name

Return type str

### 8.3 dotapatch.model

Module for the HTML structure.

```
add_general (lines)
```

Add lines to general section.

**Parameters lines** (list[str]) – List of general changelog lines to be added into the general section

#### add\_heroes (hero\_dictionary)

Add hero\_dictionary to heroes section.

```
Note: {'dname': ['Change one.', 'Change two.']}
```

**Parameters** hero\_dictionary (dict) - Dictionary of heroes to be added into the heroes section

#### add\_items (item\_dictionary)

Add item\_dictionary to items section.

```
Note: {'dname': ['Change one.', 'Change two.']}
```

**Parameters item\_dictionary** (dict) - Dictionary of items to be added into the items section

#### close()

Closes the HTML tags.

Warning: Must be called once!

#### get\_content()

Returns the whole HTML content.

Returns content – Whole HTML content

Return type str

#### get\_dictionary\_value(section)

Returns the content for the given section.

**Parameters** section (str) – The content section to be accessed, e.g. OPEN\_GENERAL

Returns content - Section content

Return type str

#### **Built with**

- \_\_future\_\_ Ensures backwards compatibility
- · os Portable way of using operating system dependent functionalities
  - os.path Makes sure all directories are created and all data are downloaded
  - os.makedirs() Creates HeropediaData directory
  - os.remove() Clean data generated during the tests
  - os.rename() Persists original data after testing
- json.loads () Parses json from HeropediaData to a Python dictionary
- ast.literal\_eval() Parses data from file to a Python dictionary
- argparse. ArgumentParser Enables the use of arguments. Try \$ dotapatch -h
- collections.defaultdict
  - defaultdict (list) stores each line of the changelog inside a list (inside a dictionary)
  - Each dictionary.keys() (hero/item) stores dictionary.values() (hero/item changes)
- urllib.urlopen Fetches HeropediaData files
  - urllib2.urlopen for Python 2
  - urllib.request.urlopen() for Python 3
- logging Manages dotapatch logs
  - DEBUG The numeric value of logging level for debugging
  - logging. StreamHandler Manages the logging output
  - logging. Formatter Formats the logging output
  - logging. FileHandler Saves the logging output into a file
  - logging.getLogger() Keeps logger consistent between classes
  - logging.getLevelName() Returns the numeric value of a string logging level

- tox Run tests for Python (2.7, 3.4, 3.5, 3.6)
  - unittest Base for the tests
    - \* unittest.mock.patch() replaces system argv with mock args
    - \* nose test suite (nosetests)
      - · rednose plugging which improves readability
      - · coverage tool for measuring code coverage
- pip Installation manager
  - setuptools Setup manager

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