
matyan Documentation

Release 0.0.2

Artur Barseghyan <artur.barseghyan@gmail.com>

Nov 17, 2019

Contents

1 Prerequisites	3
2 Documentation	5
3 Installation	7
4 Usage	9
5 Configuration	11
6 Tips and tricks	13
6.1 Write to file	13
6.2 Create initial config file	13
7 Testing	15
8 Writing documentation	17
9 License	19
10 Support	21
11 Author	23
12 Docs	25
12.1 Use cases and basic concepts	25
12.1.1 Sample use-case	25
12.1.1.1 The use-case	25
12.1.1.2 Sample commits	26
12.1.1.3 Sample releases	26
12.1.2 Sample changelog output	27
12.2 Release history and notes	27
12.2.1 0.1	28
12.2.2 0.0.2	28
12.2.3 0.0.1	28
13 Indices and tables	29

Generate changelog from Git commits.

CHAPTER 1

Prerequisites

- Python 3.6, 3.7 and 3.8

CHAPTER 2

Documentation

Documentation is available on [Read the Docs](#).

CHAPTER 3

Installation

Latest stable version on PyPI:

```
pip install matyan
```


See [Basic concepts](#) section to get impression on possible commit methodology and assumptions taken.

Generate changelog:

```
generate-changelog
```

Generate changelog skipping orphaned commits:

In some cases you only want to show what has been done with tickets and skip all non-ticket related commits.

```
generate-changelog --no-other
```

Generate changelog between two releases:

In some cases you only want to show what has been done since last release. The following example would generate changelog since version 0.0.1 to version 0.0.3.

```
generate-changelog 0.0.1..0.0.3
```

Generate changelog between two branches:

In some cases you only want to show what has been done since last release. The following example would generate changelog since version 0.0.1 to version 0.0.3.

```
generate-changelog master..dev
```

Generate changelog with releases info shown

```
generate-changelog --show-releases
```

Generate changelog between releases with releases info shown

```
generate-changelog 0.0.1..0.0.3 --show-releases
```

Generate changelog between branches with releases info shown

```
generate-changelog master..dev --show-releases
```

Configuration

In order to customize names and texts, add a `.matyan.ini` in your project directory, from which you will be running the `generate-changelog` command.

Sample configuration:

```
[BranchTypes]
feature: Feature
bugfix: Bugfix
hotfix: Hotfix
deprecation: Deprecation

[OtherBranchType]
other: Other

[Unreleased]
unreleased: Unreleased

[IgnoreCommits]
exact: more
      clean up
      code comments
      more on docs
      repo
      working
      more on
      wip
      commit
```


6.1 Write to file

```
generate-changelog --show-releases 2>&1 | tee changelog.md
```

6.2 Create initial config file

```
matyan-create-config
```


CHAPTER 7

Testing

Simply type:

```
./runtests.py
```

Or use tox:

```
tox
```

Or use tox to check specific env:

```
tox -e py36
```

Writing documentation

Keep the following hierarchy.

```
=====  
title  
=====  
  
header  
=====  
  
sub-header  
-----  
  
sub-sub-header  
~~~~~  
  
sub-sub-sub-header  
^^^^^^  
  
sub-sub-sub-sub-header  
+++++++  
  
sub-sub-sub-sub-sub-header  
*****
```


CHAPTER 9

License

GPL-2.0-only OR LGPL-2.1-or-later

CHAPTER 10

Support

For any issues contact me at the e-mail given in the *Author* section.

CHAPTER 11

Author

Artur Barseghyan <artur.barseghyan@gmail.com>

Contents:

12.1 Use cases and basic concepts

If the following applies to you, `matyan` could help:

- Project releases (tags) are numbered according to the [semantic versioning](#) or [sequence based identifiers](#).
- Project follows the DTAP.
- Testing, acceptance and production branches (hereafter referred as TAP branches) are protected.
- Direct commits to TAP branches are forbidden.
- All commits to TAP branches are made by pull requests.
- JIRA (or a similar tool) is used for handing project tickets.
- Pull requests are merged using GitHub or BitBucket web interface.

12.1.1 Sample use-case

12.1.1.1 The use-case

- JIRA is used for issues.
- All commits are prefixed with ID of the JIRA issue: for example, *MSFT-1234* or *NVDA-1234* (where first four letters identify the client commit was done for, it's pattern).
- There are 3 main (protected) branches: *dev*, *staging*, *master*. Direct commits to any of the 3 are forbidden. Any feature/bugfix comes via merge request.
- All branches do have meaningful prefixes. Example, *feature/MSFT-1234-Title-of-the-issue* or *bugfix/MSFT-1236-prevent-duplicate-postal-codes*.

- Release flow is *dev* -> *staging* -> *master*.

12.1.1.2 Sample commits

Consider the following commits into the dev branch:

branch: bugfix/MSFT-1240-LinkedIn-authentication-failing

- MSFT-1240 Fix package configuration.
- MSFT-1240 Update authentication pipeline.

branch: deprecation/MSFT-1239-Deprecate-Python2

- MSFT-1239 Deprecate Python2.
- MSFT-1238 Add initial MyPY setup.

branch: feature/MSFT-1238-Token-authentication

- MSFT-1238 Implement token authentication.
- MSFT-1238 Update authentication docs.

branch: feature/MSFT-1237-Improve-document-sharing

- MSFT-1237 Improve document sharing. Add option to share via GDrive.

branch: bugfix/MSFT-1236-prevent-duplicate-postal-codes

- MSFT-1236 Normalise postal codes for German addresses.
- MSFT-1236 Normalise postal codes for US addresses.
- MSFT-1236 Make postal code field unique for the country.

branch: deprecation/MSFT-1235-deprecate-old-api

- MSFT-1235 Deprecate API v 2.0.
- MSFT-1235 Update docs.

branch: feature/MSFT-1234-car-type-suggester

- MSFT-1234 Initial car type suggester implementation.
- MSFT-1234 Add insurance amount indication based on car weight.

12.1.1.3 Sample releases

All commits have been finally merged into master.

Releases have been made in the following way:

0.1

- Merged issues MSFT-1234, MSFT-1235 and MSFT-1236

0.2

- Merged issues MSFT-1237 and MSFT-1238

Yet unreleased features/branches

- MSFT-1239 and

12.1.2 Sample changelog output

The generated change log would look as follows:

```
### 0.2

**Features**

*MSFT-1238 Token-authentication*

- Implement token authentication.
- Update authentication docs.

*MSFT-1237 Improve document sharing*

- Improve document sharing. Add option to share via GDrive.

### 0.1

**Bugfixes**

*MSFT-1236 Prevent duplicate postal codes*

- Normalise postal codes for German addresses.
- Normalise postal codes for US addresses.
- Make postal code field unique for the country.

**Deprecations**

*MSFT-1235 Deprecate old api*

- Deprecate API v 2.0.
- Update docs.

**Features**

*MSFT-1234 Car type suggester*

- Initial car type suggester implementation.
- Add insurance amount indication based on car weight.
```

12.2 Release history and notes

Sequence based identifiers are used for versioning (schema follows below):

```
major.minor[.revision]
```

- It's always safe to upgrade within the same minor version (for example, from 0.3 to 0.3.4).
- Minor version changes might be backwards incompatible. Read the release notes carefully before upgrading (for example, when upgrading from 0.3.4 to 0.4).
- All backwards incompatible changes are mentioned in this document.

12.2.1 0.1

2019-11-18

Note: Release dedicated to my mother, who turned 70 yesterday.

- Status changed to beta.
- Minor fixes.
- Add *matyan-create-config* command.
- Add initial tests.

12.2.2 0.0.2

2019-11-17

- Minor fixes.

12.2.3 0.0.1

2019-11-17

- Initial alpha release.

CHAPTER 13

Indices and tables

- `genindex`
- `modindex`
- `search`