
matyan Documentation

Release 0.2

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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
```

Generate changelog for the latest release with releases info shown

```
generate-changelog --latest-release --show-releases
```

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
prefix: more on
      continue on
```


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 Methodology

- Protect your main (DTAP) branches from direct commits. Commits shall only arrive into these branches via pull request.
- Use feature branches. Make your own prefixes (or use current ones) for classification of the ticket. Add ticket name to the name of the branch, followed by slugified ticket title.
- Prefix commits with ticket number followed by meaningful description.

Sample branch names:

- bugfix/MSFT-1240-LinkedIn-authentication-failing
- deprecation/MSFT-1239-Deprecate-Python2
- feature/MSFT-1238-Token-authentication

Sample commit messages:

- MSFT-1240 Fix package configuration.
- MSFT-1239 Deprecate Python2.
- MSFT-1238 Implement token authentication.

12.3 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.

12.3.1 0.2

2019-11-19

- Hide empty sections/records.
- Add an option to generate changelog for latest release only.
- Handle multiple merge format commit messages.
- Prevent JSON decoding errors.
- Exclude tests from coverage.

12.3.2 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.

12.3.3 0.0.2

2019-11-17

- Minor fixes.

12.3.4 0.0.1

2019-11-17

- Initial alpha release.

CHAPTER 13

Indices and tables

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