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# **dotenv-linter**

***Release 0.5.0***

**wemake.services**

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Simple linter for `.env` files.



While `.env` files are very simple it is required to keep them consistent. This tool offers a wide range of consistency rules and best practices.

And it integrates perfectly to any existing workflow.

Read [the announcing post](#).



## INSTALLATION AND USAGE

```
pip install dotenv-linter
```

And then run it:

```
dotenv-linter .env .env.template
```

See [Usage](#) section for more information.



## EXAMPLES

There are many things that can go wrong in your `.env` files:

```
# Next line has leading space which will be removed:
SPACED=

# Equal signs should not be spaced:
KEY = VALUE

# Quotes won't be preserved after parsing, do not use them:
SECRET="my value"

# Beware of duplicate keys!
SECRET=Already defined ;(

# Respect the convention, use `UPPER_CASE`:
kebab-case-name=1
snake_case_name=2
```

And much more! You can find the full list of violations in our docs.



## PRE-COMMIT HOOKS

`dotenv-linter` can also be used as a [pre-commit](#) hook. To do so, add the following to the `.pre-commit-config.yaml` file at the root of your project:

```
repos:
- repo: https://github.com/wemake-services/dotenv-linter
  rev: 0.2.0 # Use the ref you want to point at
  hooks:
  - id: dotenv-linter
```

For the more detailed instructions on the pre-commit tool itself, please refer to [its website](#).



Special thanks goes to [Ignacio Toledo](#) for creating an awesome logo for the project.

## 4.1 Usage

### 4.1.1 dotenv-linter

Main entrypoint to the app.

Runs `lint` command by default if nothing else is not specified. Runs `--version` subcommand if this option is provided.

```
dotenv-linter [OPTIONS] COMMAND [ARGS]...
```

#### Options

**--version**

#### lint

Runs linting process for the given files.

```
dotenv-linter lint [OPTIONS] FILES...
```

#### Arguments

##### FILES

Required argument(s)

## 4.2 Violations

### 4.2.1 Parsing

Different error that might happen during file parsing phase.

**final class ParsingViolation**(*node=None, text=None*)

Bases: BaseFileViolation

Indicates that given file can not be correctly parsed.

This may include: 1. Incorrect OS behavior 2. Incorrect syntax inside this file 3. Errors in our grammar definition 4. Our internal errors

Added in version 0.1.0.

### 4.2.2 Names

Rules that define how names should be defined.

**final class SpacedNameViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to use duplicate names variables.

**Reasoning:**

This spaces will be removed by the parsing mechanism, but they might cause some confusion to users.

**Solution:**

Remove leading spaces.

Example:

```
# Correct:
SOME_KEY=1

# Wrong:
  SOME_KEY=1
```

Added in version 0.1.0.

**final class IncorrectNameViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to use restricted symbols to define names.

**Reasoning:**

By convention we can only use letters, numbers, and underscores to define dotenv variables. Moreover, variables can not start with numbers.

**Solution:**

Refactor your file to contain only allowed characters.

Example:

```
# Correct:
SOME_KEY=1
```

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```
# Wrong:
SOME-KEY=1
```

Added in version 0.1.0.

**final class DuplicateNameViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to use duplicate names variables.

**Reasoning:**

There is no need to create duplicate variables inside your dotenv file. Since it will be implicitly overridden by the parsing mechanism.

**Solution:**

Remove one of the duplicate variables.

Example:

```
# Correct:
SOME_KEY=1
OTHER_KEY=2

# Wrong:
SOME_KEY=1
SOME_KEY=2
```

Added in version 0.1.0.

**final class RawNameViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to use raw names without equal sign or value.

**Reasoning:**

It does not make any sense to just state some names. It might also break some `.env` parsers.

**Solution:**

Append equal sign to it. So, this would become a declaration of an empty variable. You can also add a value if it makes sense.

Example:

```
# Correct:
KEY=1
OTHER=

# Wrong:
KEY
```

Added in version 0.1.0.

**final class ReservedNameViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to use of blacklisted names.

**Reasoning:**

It does not make any sense to use such names.

**Solution:**

Change such names. Or, Add `_` at the end, to distinguish it from reserved ones.

Example:

```
# Wrong:
DJANGO_ENV=some_value
```

Added in version 0.2.0.

## 4.2.3 Assigns

Rules that define how assigns should be made.

**final class SpacedAssignViolation**(node, text)

Bases: BaseFSTViolation

Restricts to write `=` signs with extra spaces.

**Reasoning:**

Valid shell syntax requires to write assigns without any spaces.

**Solution:**

Remove any spaces between the `=` char.

Example:

```
# Correct:
KEY=1
OTHER=

# Wrong:
KEY = 1
OTHER =
```

Added in version 0.1.0.

## 4.2.4 Values

Rules about writing correct dotenv values.

By convention we do not print values to the output. Since they might contain private values.

**final class SpacedValueViolation**(node, text)

Bases: BaseFSTViolation

Restricts to write values with trailing spaces.

**Reasoning:**

These spaces are not guaranteed to be preserved. So, it is better not to rely on them.

**Solution:**

Remove trailing spaces from the value.

Added in version 0.1.0.

**final class QuotedValueViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to quoted values.

**Reasoning:**

Dotenv parser usually strips quotes away, so it is hard to say whether these quotes will stay on a final value, or not.

**Solution:**

Remove any quotes from the value.

Example:

```
# Correct:
KEY=1

# Wrong:
KEY="1"
```

Added in version 0.1.0.

## 4.2.5 Comments

Rules that define how comments should be written.

**final class SpacedCommentViolation**(*node, text*)

Bases: BaseFSTViolation

Restricts to write comment with leading or trailing spaces.

**Reasoning:**

These spaces are meaningless and will be removed. So, why would you want to have them?

**Solution:**

Remove leading or trailing spaces from the comment body.

Added in version 0.1.0.

## 4.3 Docker

We have an existing official image on [DockerHub](#).

### 4.3.1 Usage

You can use it like so:

```
docker pull wemakeservices/dotenv-linter
docker run --rm wemakeservices/dotenv-linter .env
```

Make sure to place proper config file and mount it with the source code like so:

```
docker run --rm wemakeservices/dotenv-linter -v `pwd`:/code /code
```

You can also use this image with Gitlab CI or any other container-based CIs.

### 4.3.2 Further reading

- Official [‘docker run’ docs](#)
- Official [GitlabCI docs](#)

## 4.4 Github Actions

Good news: we ship pre-built Github Action with this project.

You can use it from the [Github Marketplace](#):

```
- name: dotenv-linter
  uses: wemake-services/dotenv-linter
```

You can also specify any version starting from 0.1.5 instead of the default latest tag.

### 4.4.1 Inputs

#### reporter

We support three reporting options:

- **terminal** (default one) when we just dump the output into Action’s logs. Is the easiest one to setup, that’s why we use it by default
- **github-pr-review** (recommended) when we use [inline comments](#) inside code reviews
- **github-pr-check** when we use [Github Checks](#) for the output

Take a note that **github-pr-review** and **github-pr-check** requires `GITHUB_TOKEN` environment variable to be set.

For example, that’s how **github-pr-reviews** can be set up:

```
- name: dotenv-linter
  uses: wemake-services/dotenv-linter
  with:
    reporter: 'github-pr-review'
  env:
    GITHUB_TOKEN: ${ secrets.github_token }
```

## options

We also support custom CLI options to be specified, they are exactly match anything that can be provided to `dotenv-linter` itself:

```
- name: dotenv-linter
  uses: wemake-services/dotenv-linter
  with:
    options: './conf/.env ./conf/.env.docker'
```

## 4.4.2 Outputs

We also support outputs from the spec, so you can later pass the output of `dotenv-linter` to somewhere else.

```
- name: dotenv-linter
  uses: wemake-services/dotenv-linter
- name: Custom Action
  runs: echo "{{ steps.dotenv-linter.outputs.output }}"
```



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