

A *GitHub* Action to check your code with *diKTat*

Table of Contents

Features.....	1
Usage	2
Configuration.....	2
<code>config</code> : custom configuration file	2
<code>reporter</code> : requesting a type of reporter	3
<code>input-paths</code> : custom source sets	4
<code>java-distribution</code> and <code>java-version</code> : running <i>diKTat</i> using a custom JVM	5
<code>fail-on-error</code> : suppressing lint errors	6
<code>debug</code> : enabling debug logging.....	6
Outputs	6

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[[GitHub release](#)] | <https://badgen.net/github/release/saveourtool/benedikt/latest?color=green>

[Ubuntu Linux] |

<https://badgen.net/badge/icon/Ubuntu?icon=terminal&label&color=green>

[macOS] | <https://badgen.net/badge/icon/macOS?icon=apple&label&color=green>

[Windows] |

<https://badgen.net/badge/icon/Windows?icon=windows&label&color=green>

- An always updated version of this document is available [here](#) as a PDF e-book.

Features

- Customizable `diktat-analysis.yml` location. You can use the rule set configuration with an alternate name or at a non-default location.
- Customizable JVM `vendor` and `version`. You can run *diKTat* using a default JVM, or you can set up your own one.
- Customizable `reporter` (*SARIF* or *Checkstyle XML*).
- Allows multiple `input paths`. If you have a multi-module project and only wish to check certain directories or modules, you can configure the action accordingly.
- The summary page contains statistic about detected errors:

diKTat Check summary ...

 *diKTat* exited with code 1

```
diktat-ruleset:identifier-naming: 24
diktat-ruleset:kdoc-comments: 19
diktat-ruleset:indentation: 16
diktat-ruleset:package-naming: 14
diktat-ruleset:class-like-structures: 12
diktat-ruleset:kdoc-methods: 7
diktat-ruleset:blank-lines: 6
diktat-ruleset:comments: 6
diktat-ruleset:file-naming: 6
diktat-ruleset:horizontal-whitespace: 6
diktat-ruleset:magic-number: 6
diktat-ruleset:class-compact-initialization: 2
diktat-ruleset:header-comment: 1
diktat-ruleset:variable-generic-type: 1
```

- *Diktat*: 2.0.3
- *Ktlint*: 1.0.1

[Job summary generated at run-time](#)

Usage

In the simplest scenario, the action can be used without input parameters; you just need to check out your code first, using [actions/checkout](#):

```
jobs:
  diktat_check:
    name: 'diKTat Check'
    runs-on: ubuntu-latest

    steps:
      - uses: actions/checkout@v4

      - uses: saveourtool/benedikt@v2
```

Configuration

config: custom configuration file

- Default: `diktat-analysis.yml`
- Required: **no**

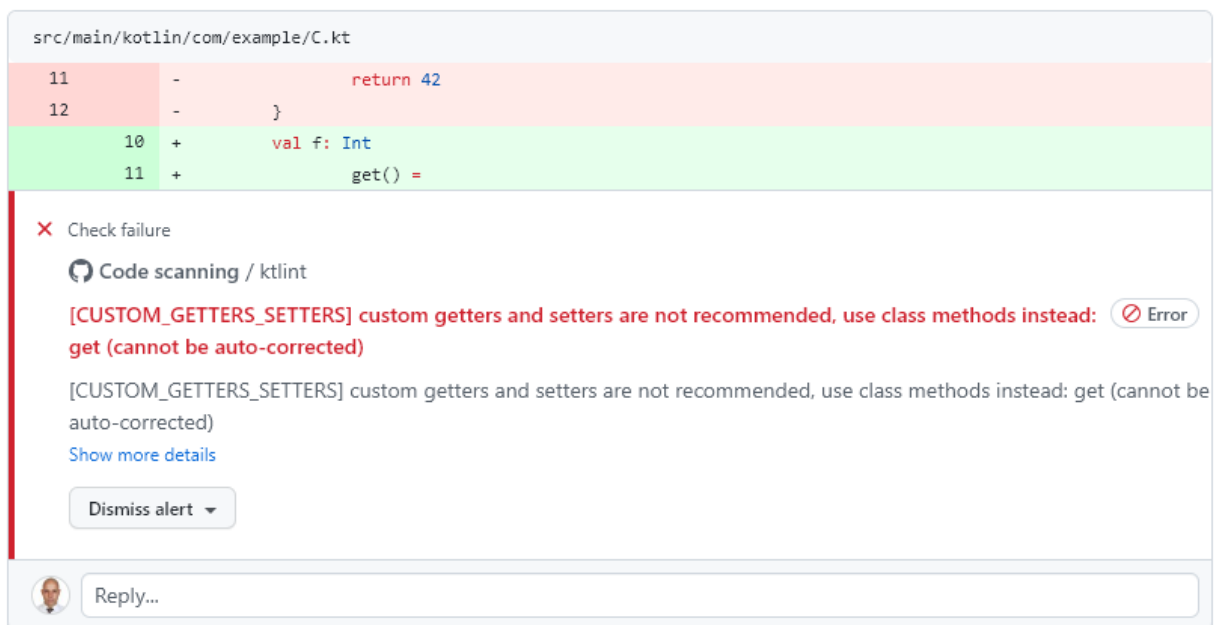
You can override the name or the path of your YAML configuration file using the `config` input parameter, e. g.:

```
- uses: saveourtool/benedikt@v2
  with:
    config: path/to/diktat-analysis-custom.yml
```

reporter: requesting a type of reporter

If you wish, you can report errors in a different format.

- Default: `sarif`
- Required: `no`
- Possible values: any of the following.
 - `sarif`: report errors in the *SARIF* format. The output file will be named `report.sarif` and automatically uploaded to *GitHub* using the `upload-sarif` action. This will enable the check results to be shown as annotations in the pull request:



The screenshot shows a code editor snippet for `src/main/kotlin/com/example/C.kt` with the following code:


```
11 - return 42
12 - }
10 + val f: Int
11 + get() =
```

Below the code, a "Check failure" alert is displayed for "Code scanning / ktlint". The alert message is: `[CUSTOM_GETTERS_SETTERS] custom getters and setters are not recommended, use class methods instead: get (cannot be auto-corrected)`. The alert includes a "Dismiss alert" button and a "Show more details" link. At the bottom, there is a "Reply..." input field.

as well as in the *Code scanning alerts* section of your repository:

[MAGIC_NUMBER] avoid using magic numbers, instead define constants with clear names describing what the magic number means: 42 (cannot be auto-corrected)

Dismiss alert ▾

 in `master` 8 minutes ago

```
src/main/kotlin/com/example/C.kt:19
16     */
17     val g: Int
18         get() =
19             42
```

Severity
Error


[MAGIC_NUMBER] avoid using magic numbers, instead define constants with clear names describing what the magic number means: 42 (cannot be auto-corrected)



ktlint

```
20 }
```


Tool	Rule ID
ktlint	diktat-ruleset:magic-number

No rule help available for this alert.

 First detected in commit 8 minutes ago

  Initiate a new code scanning procedure ✗ 5511f17

src/main/kotlin/com/example/C.kt:19 on branch `master`


 Appeared in branch `master` 8 minutes ago

✗ diKTat Check, Ubuntu Linux #62: Commit 5511f177

- **checkstyle**: this is the reporter of choice if you ever encounter issues with the **sarif** reporter. Errors are reported in the **Checkstyle-XML** format to the file named **checkstyle-report.xml**. The report is then consumed by the **reviewdog** tool and uploaded to **GitHub**, resulting in code annotations similar to those produced by the **sarif** reporter:

```
2
3 + /**
4 + * This is a simple class covered by both unit and integration tests.
5 + */
6 object C {
```

✗ Check failure on line 6 in src/main/kotlin/com/example/C.kt

 GitHub Actions / diKTat errors reported by reviewdog

[diKTat errors reported by reviewdog] src/main/kotlin/com/example/C.kt#L6 <diktat-ruleset:identifier-naming>

[OBJECT_NAME_INCORRECT] object structure name should be in PascalCase and should contain only latin (ASCII) letters or numbers

[Raw output](#)

input-paths: custom source sets

- Default: none
- Required: **no**

One or more patterns which indicate the files or directories to check. Use a multiline string to specify multiple inputs.

- If an input is a path to a file, it is passed to *diKTat* as-is:

```
- uses: saveourtool/benedikt@v2
  with:
    input-paths: |
      path/to/file.kt
```

- If an input is a path to a directory, the directory is recursively traversed, and all **.kt* and **.kts* files are passed to *diKTat*.

```
- uses: saveourtool/benedikt@v2
  with:
    input-paths: |
      src/main/kotlin
      src/test/kotlin
```

- If an input is an [Ant-style path pattern](#) (such as ***/*.kt*), *diKTat* expands it into the list of files that match the path pattern. Path patterns may be negated, e. g.: *!src/**/*Test.kt* or *!src/**/generated/***.

```
- uses: saveourtool/benedikt@v2
  with:
    input-paths: |
      **/*.kt
      **/*.kts
      !**/generated/**
```

If this input parameter is not specified, this is equivalent to setting it to *.*, meaning *diKTat* will check all **.kt* and **.kts* files in the project directory unless configured otherwise.

java-distribution and java-version: running *diKTat* using a custom JVM

It's possible to run *diKTat* with a custom JVM using the `actions/setup-java` action. The following input parameters may be specified:

- **java-distribution**: the Java distribution, see the [list of supported distributions](#).
 - Default: `temurin`
 - Required: **no**
- **java-version**: the Java version to set up. Takes a whole or semver Java version. See [examples of supported syntax](#).
 - Default: `none`
 - Required: **no**

NOTE

Setting just the `java-distribution` property in order to use a custom JDK is not sufficient: you'll need to set **both** `java-distribution` **and** `java-version`:

```
- uses: saveourtool/benedikt@v2
  with:
    java-distribution: 'temurin'
    java-version: 17
```

fail-on-error: suppressing lint errors

- Default: `true`
- Required: `no`

If `false`, the errors are still reported, but the step completes successfully. If `true` (the default), then lint errors reported by `diKTat` are considered fatal (i.e. the current step terminates with a failure):

```
- uses: saveourtool/benedikt@v2
  with:
    fail-on-error: true
```

NOTE

This flag only affects the case when `diKTat` exits with code `1`. Higher `exit codes` are *always* fatal.

debug: enabling debug logging

- Default: `false`
- Required: `no`

Debug logging can be enabled by setting the `debug` input parameter to `true`:

```
- uses: saveourtool/benedikt@v2
  with:
    debug: true
```

Outputs

The action returns the exit code of the command-line client using the `exit-code` output parameter, e. g.:

```
jobs:
  diktat_check:
    name: 'diKTat Check'
```

```
runs-on: ubuntu-latest
```

```
steps:
```

```
- uses: actions/checkout@v4
```

```
- id: diktat
```

```
  uses: saveourtool/benedikt@v2
```

```
- name: 'Read the exit code of diKTat'
```

```
  if: ${{ always() }}
```

```
  run: echo "diKTat exited with code ${ steps.diktat.outputs.exit-code }"
```

```
  shell: bash
```

The exit codes are documented [here](#).