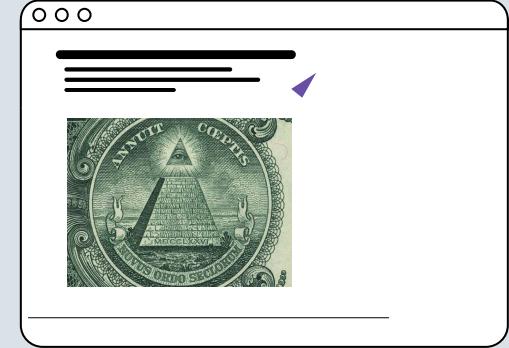
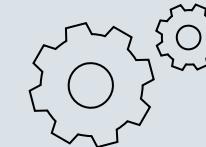
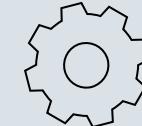
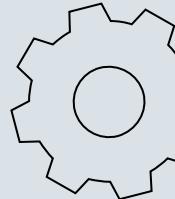
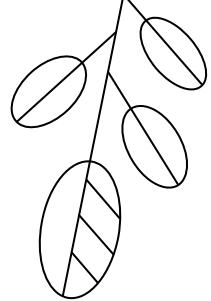
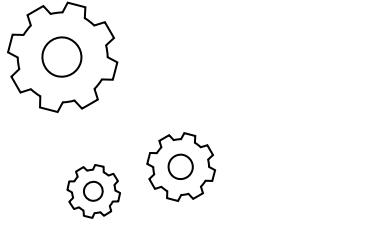
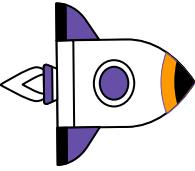


MASLOW'S HIERARCHY OF NEEDS FOR JAVA/KOTLIN DEVELOPERS



ABOUT US



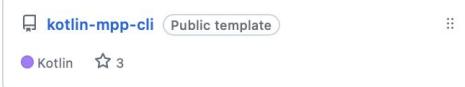
Dmitry Ivanov

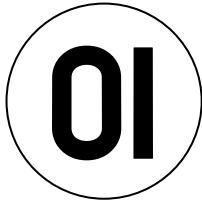
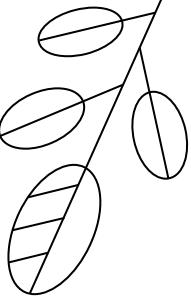
<https://github.com/korifey>



Andrey Kuleshov

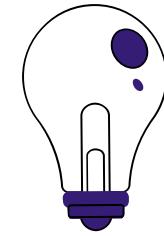
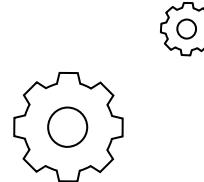
<https://github.com/akuleshov7>

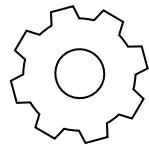




INTRODUCTION

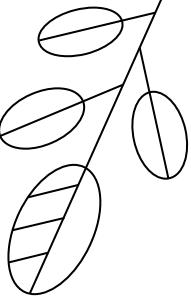
MOTIVATION OF THIS TALK





DISCLAIMER!





MOTIVATION OF THIS TALK

- **Songshan Lake**, China, Huawei
R&D Center

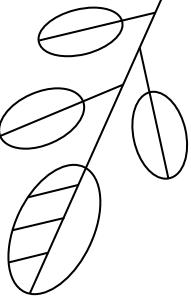




MOTIVATION OF THIS TALK

- **Songshan Lake, China, Huawei R&D Center**
- We are discussing with Dima about regular developer's knowledge

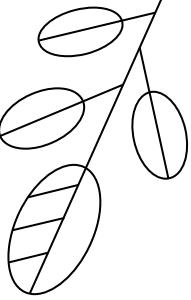




MOTIVATION OF THIS TALK

- **Songshan Lake, China, Huawei R&D Center**
- We are discussing with Dima about regular developer's knowledge
- Getting to the conclusion that there are **layers of evolution** in each and every project





MOTIVATION OF THIS TALK

- Songshan Lake, China, Huawei R&D Center
- We are discussing with Dima about regular developer's knowledge
- Getting to the conclusion that there are layers of evolution in each and every project
- And thinking that we can categorize them

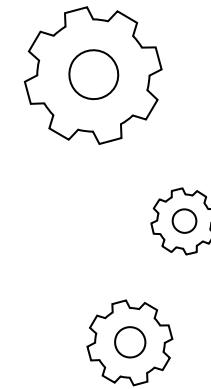




Not **this** evolution!



MOTIVATION OF THIS TALK



But **this** one!

*Maslow's Hierarchy of
Needs

Self-actualization

morality,
creativity,
spontaneity,
problem solving,
lack of prejudice,
acceptance of facts

Esteem

self-esteem, confidence,
achievement, respect of others,
respect by others

Love/belonging

friendship, family, sexual intimacy

Safety

security of: body, employment, resources,
morality, the family, health, property

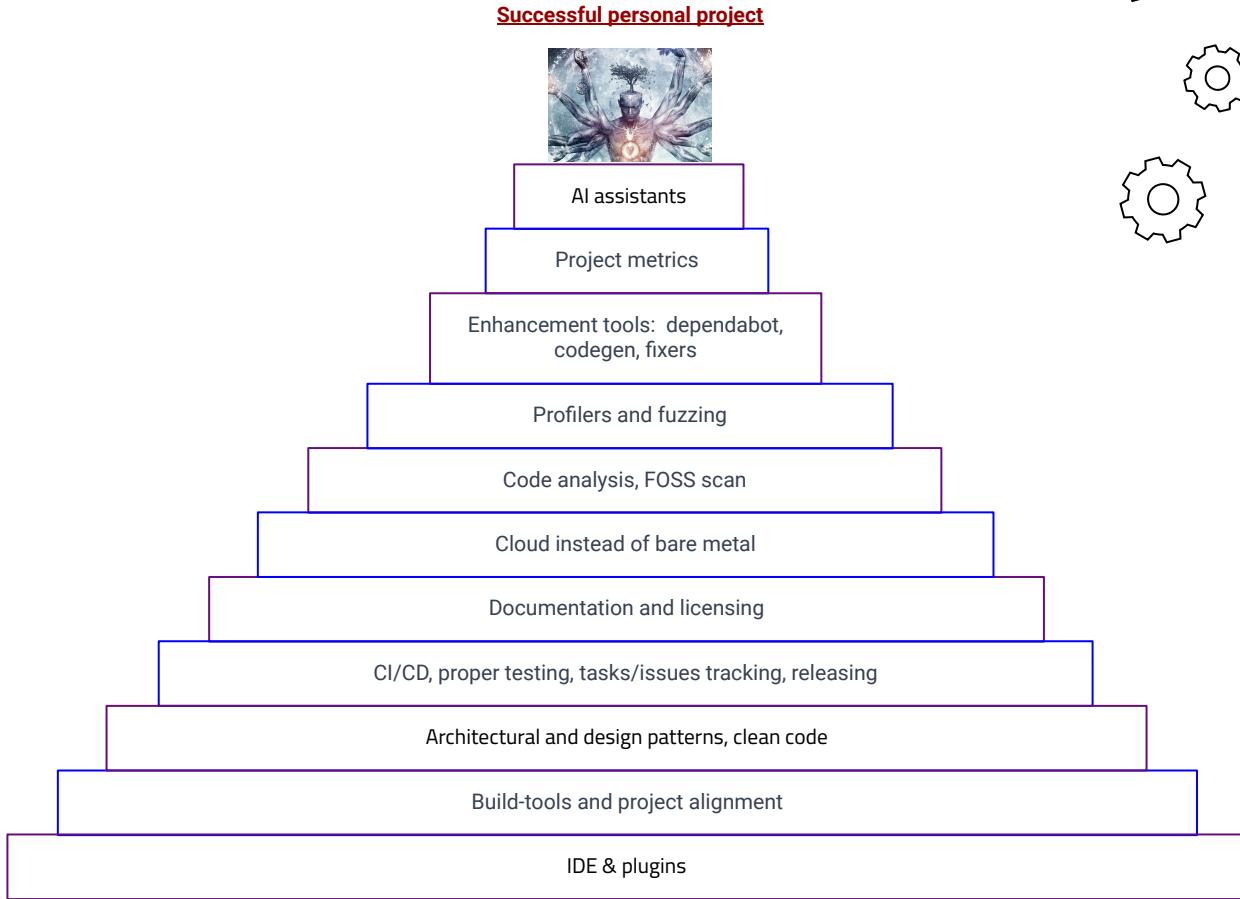
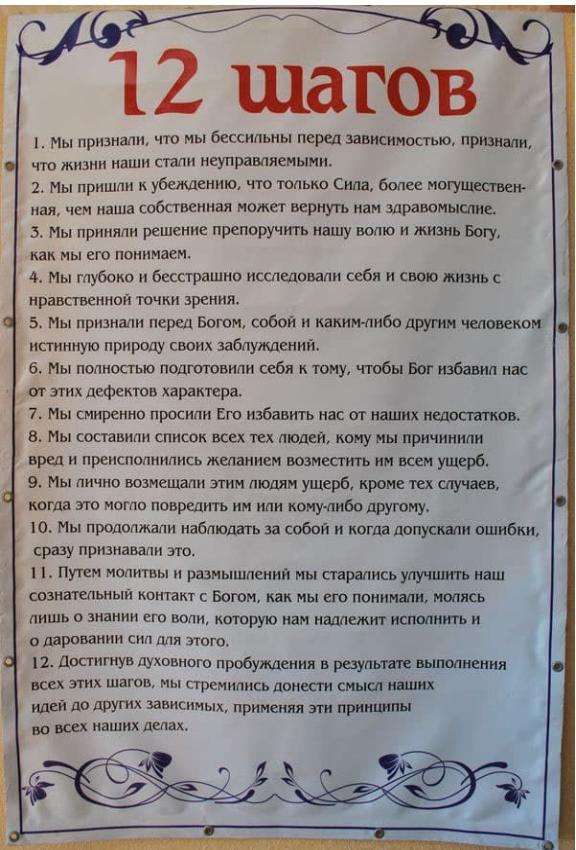
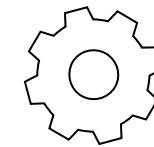
Physiological

breathing, food, water, sex, sleep, homeostasis, excretion





HOW OUR PYRAMID LOOKS LIKE?

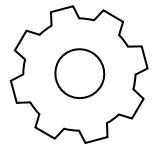




MAKE PERFECT OPENSOURCE PROJECT

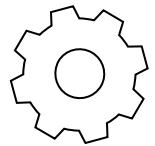
GET A GOLDEN SETUP FOR 0\$





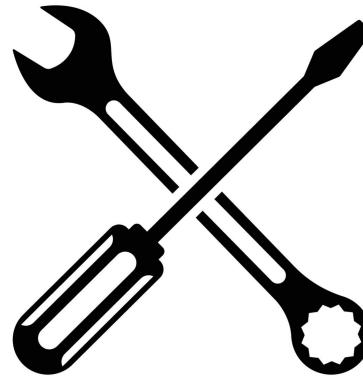
- Understanding the **Needs** of Java/Kotlin Programmers: From Basic to Advanced Level





MOTIVATION OF THIS TALK

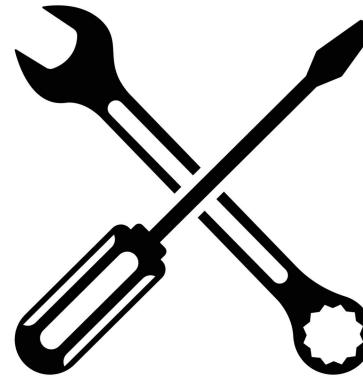
- Understanding the **Needs** of Java/Kotlin Programmers: From Basic to Advanced Level
- Review the development tools and trade-offs that developers will have to face when working with Java/Kotlin





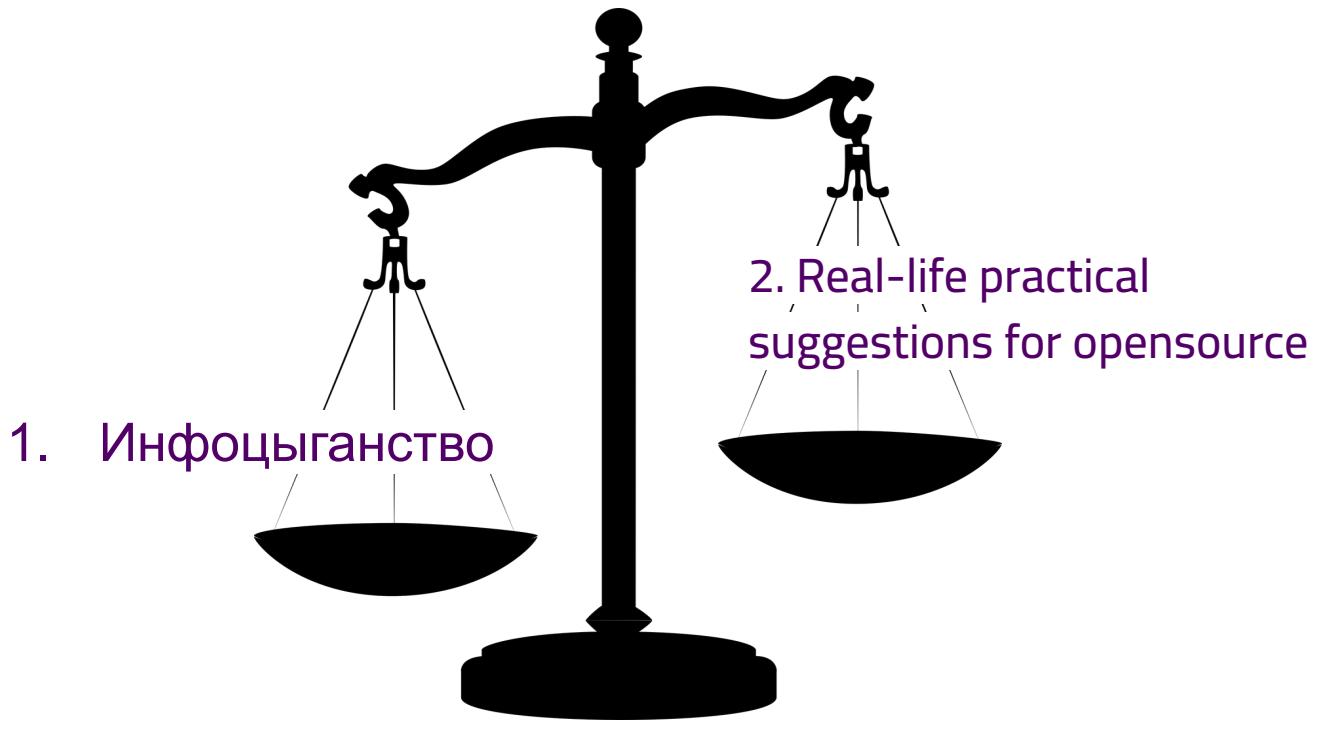
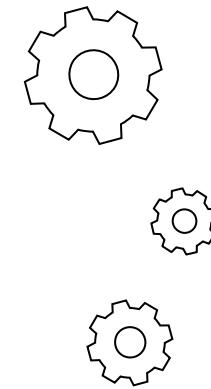
MOTIVATION OF THIS TALK

- Understanding the **Needs** of Java/Kotlin Programmers: From Basic to Advanced Level
- Review the development tools and trade-offs that developers will have to face when working with Java/Kotlin
- Suggest a **Gold standard** with basic tools for Java/Kotlin programming in opensource (actual for 2023)



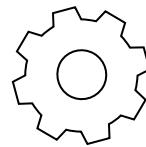


OUR PLAN





JPoint и Joker — канал конференций по Java channel



00:35



12-13 апреля 18-19 апреля

ONLINE

МОСКВА



13 апреля в 13:15 Андрей Кулешов и Дмитрий Иванов расскажут про [пирамиду потребностей Маслоу для Java/Kotlin-разработчика](#) на JPoint 2023.



13



1



Андрей Кулешов



JPoint и Joker — канал конференций по Java

13 апреля в 13:15 Андрей Кулешов и Дмитрий Иванов расскажут про
Опять инфоцыганство от непонятных людей



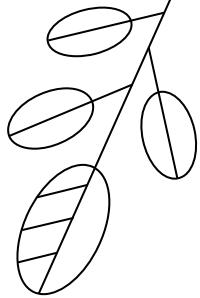
JBáruch

Андрей Кулешов

Опять инфоцыганство от непонятных людей

Скажи, что ты в российском айти, не говоря, что ты в российском айти

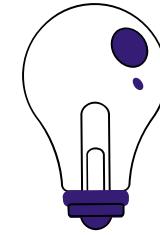




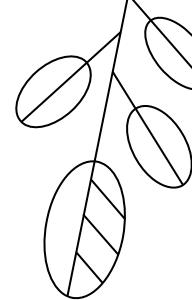
02

GOING TO THE TOP

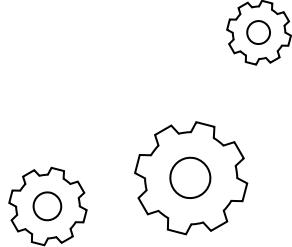
PYRAMID REVIEW



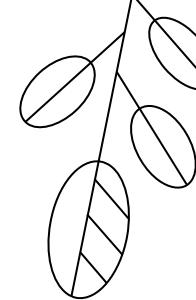
IDE & PLUGINS



IDE & plugins



IDE & PLUGINS



доклад

Будущее IDE: Как меняется парадигма разработки программного обеспечения

RU

YouTube PDF



IDE — это основной инструмент разработчика в его повседневной работе. Оно развивается с 1970-х годов. Старшее поколение разработчиков ПО помнит IDE Borland C и Turbo Pascal, которые обединяют в себе редактор кода, сборку, запуск, дебаг и подсветку ключевых слов: мы могли бы назвать такие инструменты IDE 1.0. IntelliJ IDEA и Eclipse показали новый стандарт для завершения кода, выделения ошибок, поддержки кода, рефакторинга и многих других функций, основанных на глубоком понимании исходного кода. И это IDE 2.0.

Что такое IDE 3.0? Какие функции у него должны быть? На какую архитектуру следует опираться? Компания, которая понимает это, обязательно будет доминировать на рынке инструментов. Дмитрий расскажет о текущем состоянии дел в области создания IDE и поделится своим видением будущего.



Спикеры

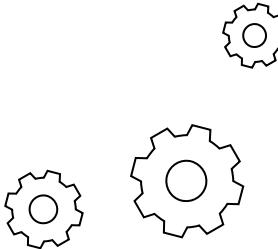


Дмитрий Иванов
Huawei

Приглашенные эксперты



Кирилл Скрыган
JetBrains



(?) Which IDE do you use?

Start coding instantly with Codespaces

Spin up fully configured dev environments in the cloud that start in seconds with up to 60 hours a month free.

Get started for free >

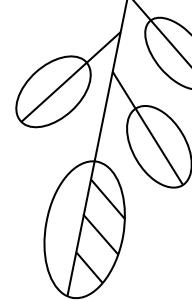
Plans and pricing >

Dev environments that just work ↗



The screenshot shows a GitHub repository page for a project named "mona-github-github-g59jqq2w5w7.github.dev". The repository contains three files: index.html, scripts.js, and package.json. The index.html file includes code for a navigation bar with a logo and notifications, and a hero section with a headline. The scripts.js file contains a single line of code that logs "Hello world!" to the console. The package.json file specifies the version as 1.0.0 and lists dependencies for "@zeit/next-sass" and "next".

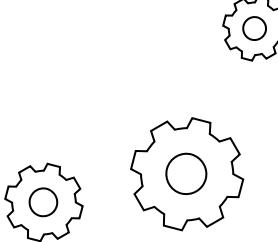
THAT'S IT? JUST WRITE CODE AND GO HOME?



ПИШИ КОД, БЛЕАТЬ!

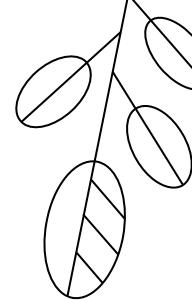


IDE & plugins



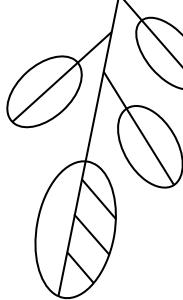
GOLDEN SETUP: WRITING TESTS

- For Unit tests you need to select some standard framework like Junit, Kotest or **kotlin.test**



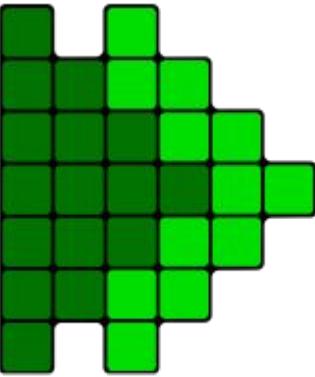
GOLDEN SETUP: WRITING TESTS

- For Unit tests you need to select some standard framework like Junit, Kotest or **kotlin.test**
- But dev-tools evolve, so...



GOLDEN SETUP: WRITING TESTS

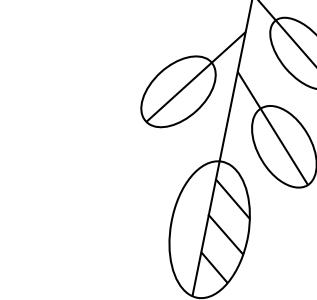
- For Unit tests you need to select some standard framework like Junit, Kotest or **kotlin.test**
- But dev-tools evolve, so...
- You can get them **generated** now



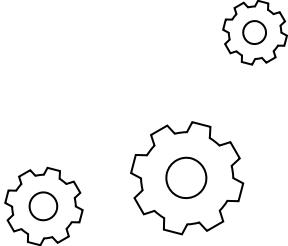
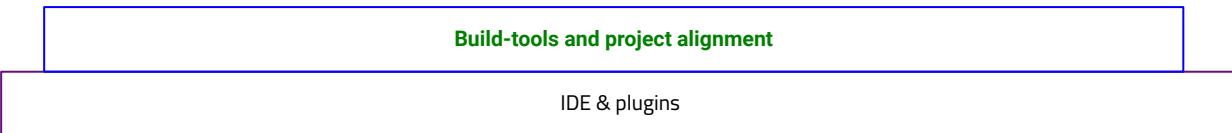
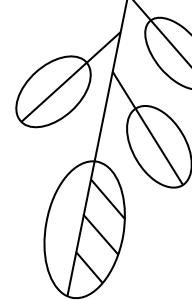
<https://utbot.org>

<https://github.com/UnitTestBot>

<https://githubnext.com/projects/testpilot/>

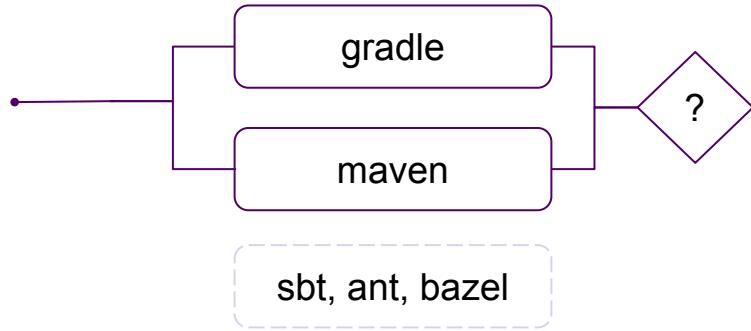


BUILD TOOLS & PROJECT ALIGNMENT

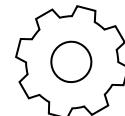
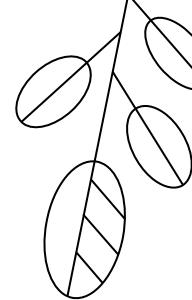


BUILD TOOLS & PROJECT ALIGNMENT

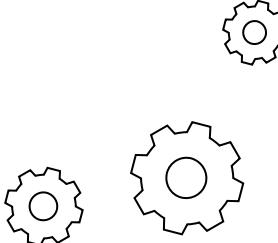
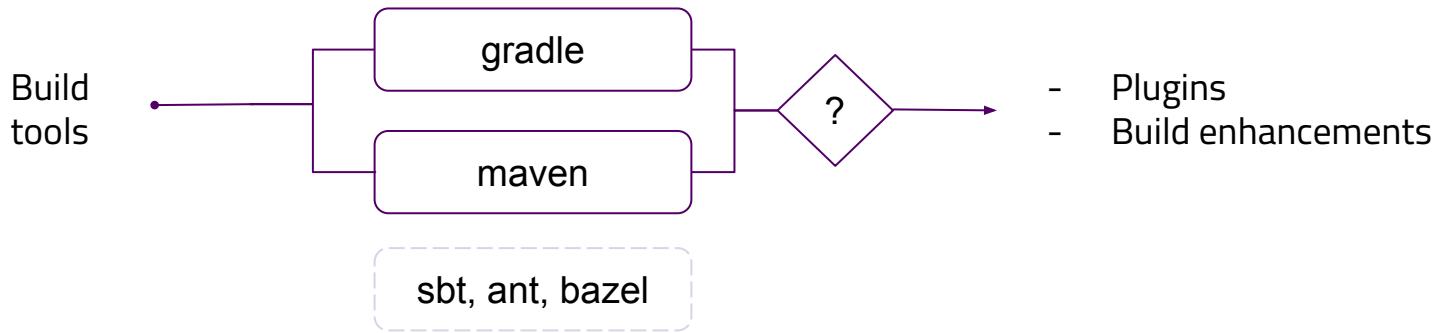
Build tools



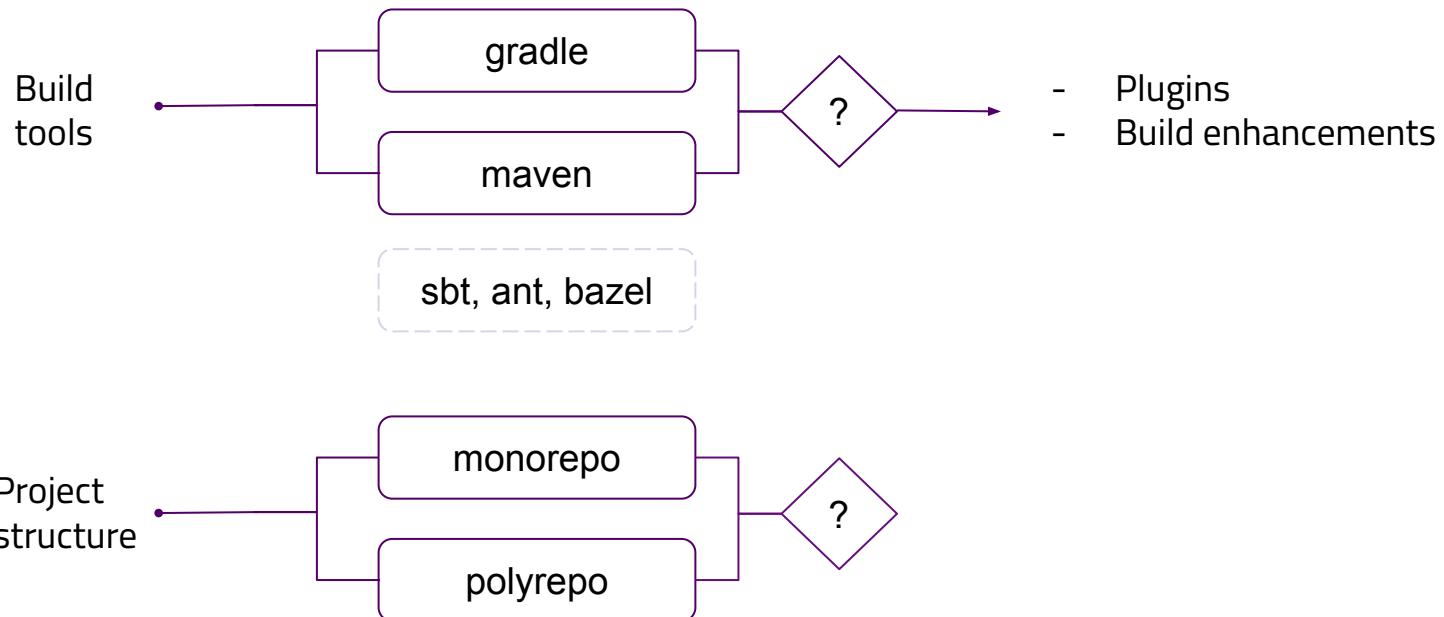
(?) Are there any people who use something else?



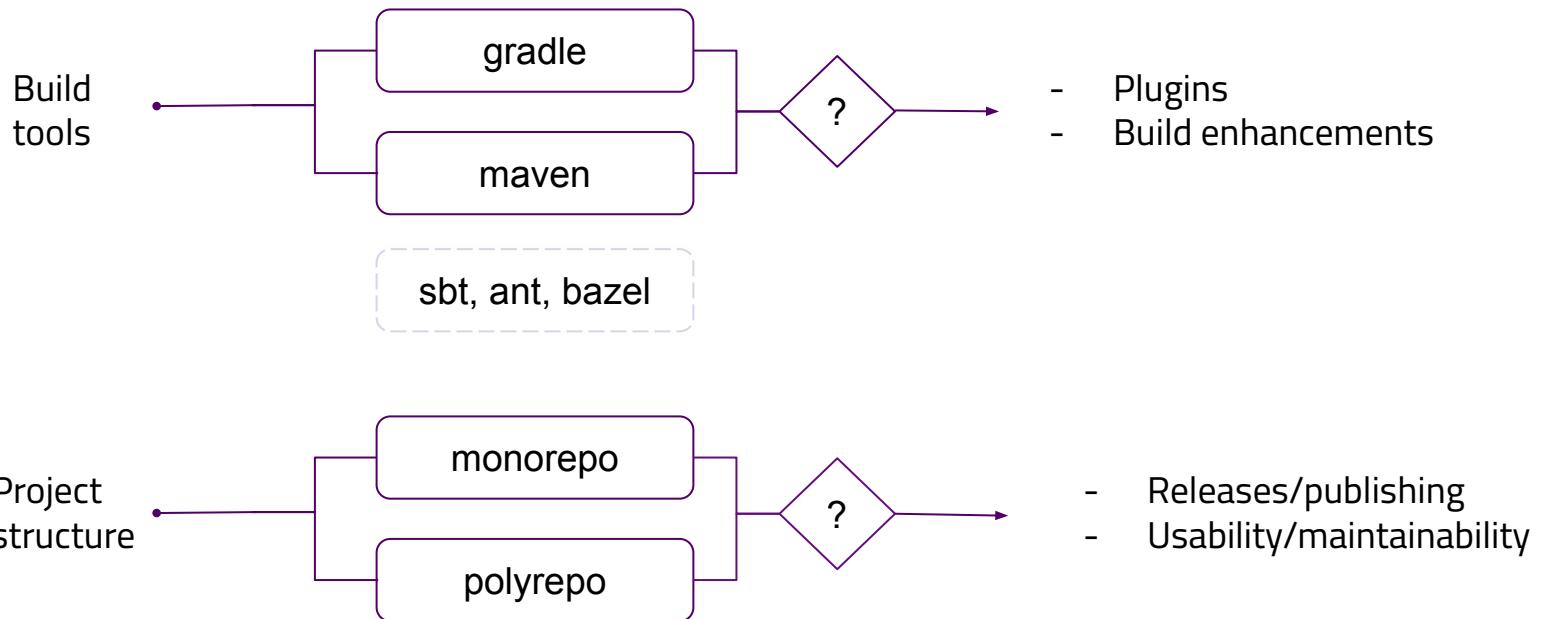
BUILD TOOLS & PROJECT ALIGNMENT



BUILD TOOLS & PROJECT ALIGNMENT



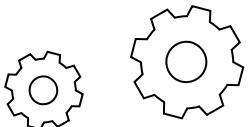
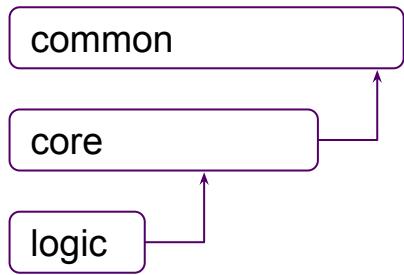
BUILD TOOLS & PROJECT ALIGNMENT



GOLDEN SETUP: BUILD SYSTEMS

Gradle Multimodule Project with a common part

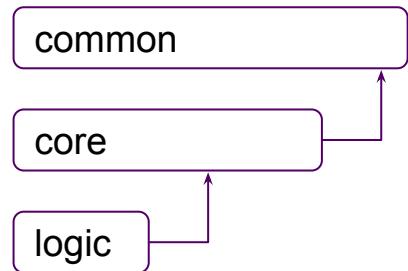
```
include("common")
include("core")
include("logic")
```



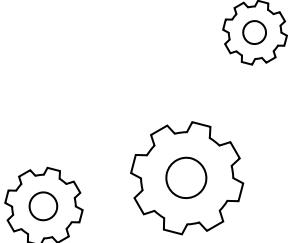
GOLDEN SETUP: BUILD SYSTEMS

Gradle Multimodule Project with a common part

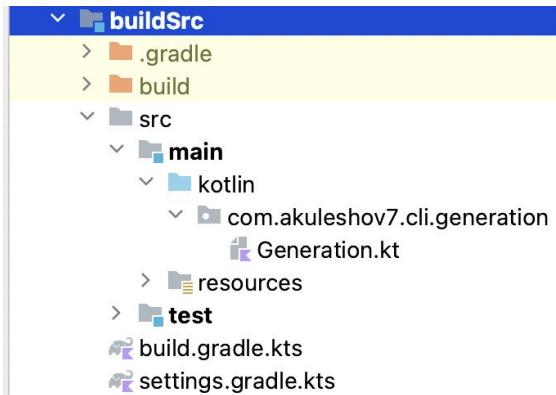
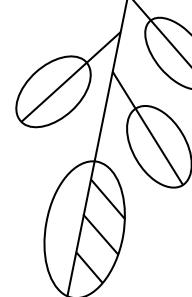
```
include("common")
include("core")
include("logic")
```



*Kotlin MPP even does **not** supports Maven



GOLDEN SETUP: BUILD SYSTEMS

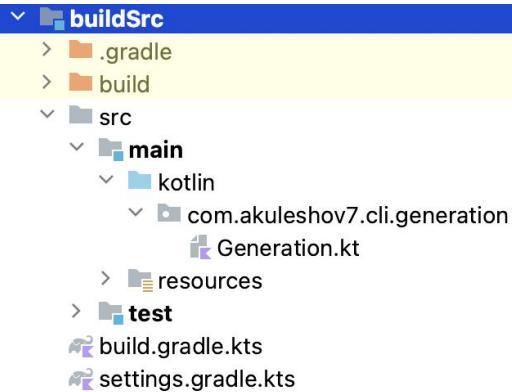
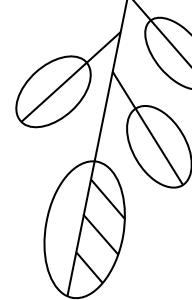


'Buildsrc' for your custom scripts and build wrappers

```
fun Project.doSomething() {  
    ...  
}
```



GOLDEN SETUP: BUILD SYSTEMS

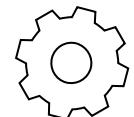


'Buildsrc' for your custom scripts and build wrappers

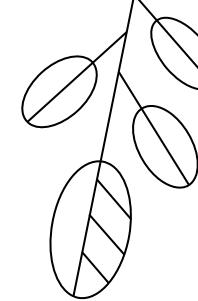
```
fun Project.doSomething() {  
    ...  
}
```

And registering it in corresponding
'build.gradle.kts' where needed:

```
tasks.register("doSomething") {  
    doSomething()  
}
```

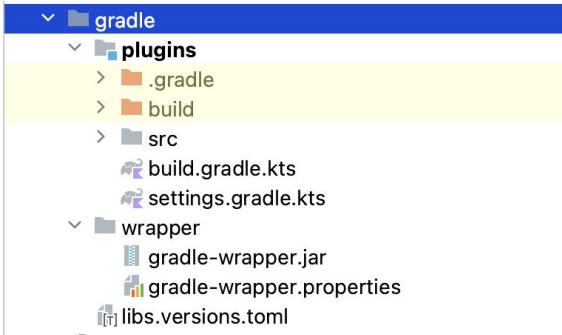


GOLDEN SETUP: BUILD SYSTEMS



'gradle/plugins' directory:

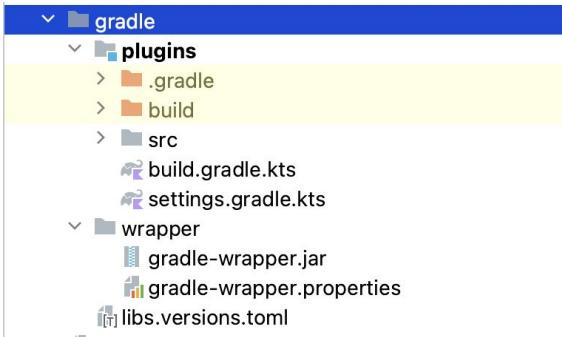
- **libs.versions.toml**



GOLDEN SETUP: BUILD SYSTEMS

'gradle/plugins' directory:

- **libs.versions.toml**
- **plugins** wrapped into our own plugins for extra configuration



```
37 spotless = "3.12.0"
38 fabric8 = "6.3.1"
39 arrow-kt = "1.1.3"
40 publish = "1.1.0"
41 download = "5.3.0"
42 cpg = "5.1.0"
```

libs.versions.toml
Gradle 7.4+

```
[plugins]
kotlin-jvm = { id = "org.jetbrains.kotlin.jvm", version.ref = "kotlin" }
kotlin-js = { id = "org.jetbrains.kotlin.js", version.ref = "kotlin" }
kotlin-multiplatform = { id = "org.jetbrains.kotlin.multiplatform", version.ref = "kotlin" }
kotlin-plugin-serialization = { id = "org.jetbrains.kotlin.plugin.serialization", version.ref = "kotlin" }
kotlin-plugin-jpa = { id = "org.jetbrains.kotlin.plugin.jpa", version.ref = "kotlin" }
kotlin-plugin-allopen = { id = "org.jetbrains.kotlin.plugin.allopen", version.ref = "kotlin" }
liquibase-gradle = { id = "org.liquibase.gradle", version = "2.1.1" }
talaiot-base = { id = "io.github.cdsap.talaiot.plugin.base", version = "1.5.3" }
detekt = { id = "io.gitlab.arturbosch.detekt", version.ref = "detekt" }
spotless = { id = "com.diffplug.gradle.spotless", version.ref = "spotless" }
download = { id = "de.undercouch.download", version.ref = "download" }

[libraries]
save-common = { module = "com.saveourtool.save:save-common", version.ref = "save-core" }
save-common-jvm = { module = "com.saveourtool.save:save-common-jvm", version.ref = "save-core" }
save-core = { module = "com.saveourtool.save:save-core", version.ref = "save-core" }
save-core-jvm = { module = "com.saveourtool.save:save-core-jvm", version.ref = "save-core" }
save-plugins-fix = { module = "com.saveourtool.save:fix-plugin", version.ref = "save-core" }
save-plugins-fix-jvm = { module = "com.saveourtool.save:fix-plugin-jvm", version.ref = "save-core" }
save-plugins-warn-jvm = { module = "com.saveourtool.save:warn-plugin-jvm", version.ref = "save-core" }
save-plugins-fixAndWarn-jvm = { module = "com.saveourtool.save:fix-and-warn-plugin-jvm", version.ref = "save-core" }
```

```
37 spotless = "3.12.0"
38 fabric8 = "6.3.1"
39 arrow-kt = "1.1.3"
40 publish = "1.1.0"
41 download = "5.3.0"
42 cpg = "5.1.0"
```

libs.versions.toml
Gradle 7.4+

```
43 [plugins]
44 kotlin-jvm = { id = "org.jetbrains.kotlin.jvm", version.ref = "kotlin" }
45 kotlin-js = { id = "org.jetbrains.kotlin.js", version.ref = "kotlin" }
46 kotlin-multiplatform = { id = "org.jetbrains.kotlin.multiplatform", version.ref = "kotlin" }
47 kotlin-plugin-serialization = { id = "org.jetbrains.kotlin.plugin.serialization", version.ref = "kotlin" }
48 kotlin-plugin-jpa = { id = "org.jetbrains.kotlin.plugin.jpa", version.ref = "kotlin" }
49 kotlin-plugin-allopen = { id = "org.jetbrains.kotlin.plugin.allopen", version.ref = "kotlin" }
50 liquibase-gradle = { id = "org.liquibase.gradle", version = "2.1.1" }
51 talaiot-base = { id = "io.github.cdsap.talaiot.plugin.base", version = "1.5.3" }
52 detekt = { id = "io.gitlab.arturbosch.detekt", version.ref = "detekt" }
53 spotless = { id = "com.diffplug.gradle.spotless", version.ref = "spotless" }
54 download = { id = "de.undercouch.download", version.ref = "download" }
```

```
55
56 [libraries]
57 save-common = { module = "com.saveourtool.save:save-common", version.ref = "save-core" }
58 save-common-jvm = { module = "com.saveourtool.save:save-common-jvm", version.ref = "save-core" }
59 save-core = { module = "com.saveourtool.save:save-core", version.ref = "save-core" }
60 save-core-jvm = { module = "com.saveourtool.save:save-core-jvm", version.ref = "save-core" }
61 save-plugins-fix = { module = "com.saveourtool.save:fix-plugin", version.ref = "save-core" }
62 save-plugins-fix-jvm = { module = "com.saveourtool.save:fix-plugin-jvm", version.ref = "save-core" }
63 save-plugins-warn-jvm = { module = "com.saveourtool.save:warn-plugin-jvm", version.ref = "save-core" }
64 save-plugins-fixAndWarn-jvm = { module = "com.saveourtool.save:fix-and-warn-plugin-jvm", version.ref = "save-core" }
```

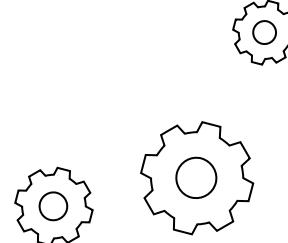
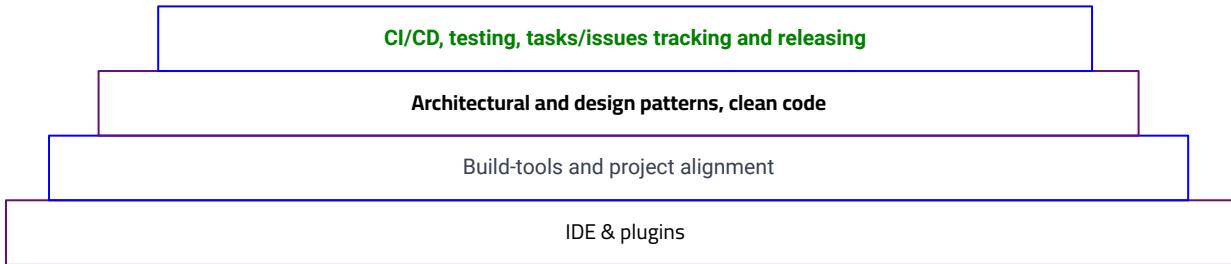
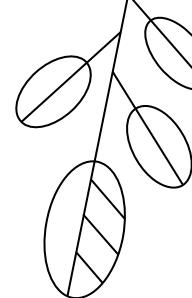
```
1 package com.akuleshov7.cli.buildutils
2
3 import ...
4
5
6 plugins { this: PluginDependenciesSpecScope
7     id("org.cqfn.diktat.diktat-gradle-plugin")
8 }
9
10 diktat { this: DiktatExtension
11     diktatConfigFile = rootProject.file("diktat-analysis.yml")
12     githubActions = findProperty( propertyName: "diktat.githubActions")?.toString()?.toBoolean() ?: false
13     inputs { this: PatternFilterable
14         // using `Project#path` here, because it must be unique in gradle's project hierarchy
15         if (path == rootProject.path) {
16             include("gradle/plugins/src/**/*.kt", "*.kts", "gradle/plugins/**/*.kts")
17             exclude("gradle/plugins/build/**")
18         } else {
19             include("src/**/*.kt", "**/*.kts")
20             exclude("src/test/**/*.kt", "src/*Test/**/*.kt")
21         }
22     }
23 }
24
25 tasks.withType<DiktatJavaExecTaskBase>().configureEach { this: DiktatJavaExecTaskBase
26     javaLauncher.set(project.extensions.getByType<JavaToolchainService>().launcherFor { this: JavaToolchainSpec
27         languageVersion set(javac.languageVersion.of(Versions.idk))
```

Plugins with our extra configuration

```
1 package com.akuleshov7.cli.buildutils
2
3 import ...
4
5
6 plugins { this: PluginDependenciesSpecScope
7     id("org.cqfn.diktat.diktat-gradle-plugin")
8 }
9
10 diktat { this: DiktatExtension
11     diktatConfigFile = rootProject.file("diktat-analysis.yml")
12     githubActions = findProperty( propertyName: "diktat.githubActions")?.toString()?.toBoolean() ?: false
13     inputs { this: PatternFilterable
14         // using `Project#path` here, because it must be unique in gradle's project hierarchy
15         if (path == rootProject.path) {
16             include("gradle/plugins/src/**/*.kt", "*.kts", "gradle/plugins/**/*.kts")
17             exclude("gradle/plugins/build/**")
18         } else {
19             include("src/**/*.kt", "**/*.kts")
20             exclude("src/test/**/*.kt", "src/*Test/**/*.kt")
21         }
22     }
23 }
24
25 tasks.withType<DiktatJavaExecTaskBase>().configureEach { this: DiktatJavaExecTaskBase
26     javaLauncher.set(project.extensions.getByType<JavaToolchainService>().launcherFor { this: JavaToolchainSpec
27         languageVersion set(javac.languageVersion.of(Versions.idk))
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Plugins with our extra configuration

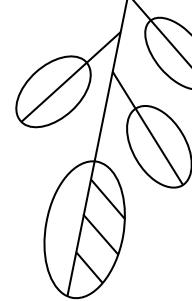
CI/CD, TESTING, TASK TRACKING AND RELEASES



CI/CD, TESTING, TASK TRACKING AND RELEASES

Basic Minimum:

- For **each commit** to main/master run build and unit tests



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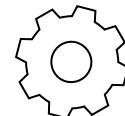
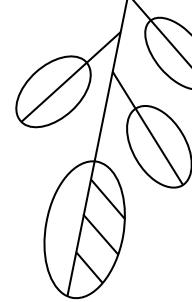
Jenkins



TeamCity



GitHub Actions



(?) Which CI do you use?

CI/CD, TESTING, TASK TRACKING AND RELEASES

Basic Minimum:

- For **each commit** to main/master run build and unit tests
- Regularly automatically run functional tests



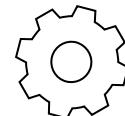
Jenkins



TeamCity



GitHub Actions



CI/CD, TESTING, TASK TRACKING AND RELEASES

Basic Minimum:

- For **each commit** to main/master run build and unit tests
- Regularly automatically run functional tests
- Auto-reporting of problems to issues



Jenkins



TeamCity



GitHub Actions



Bug report

Create a report to help us improve

Get started

Report a security vulnerability

Report a security vulnerability.

Report a vulnerability

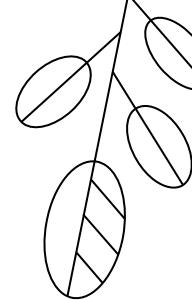
Telegram chat @diktat_kotlin

Ask everything about diktat in this channel

Open

Don't see your issue here? [Open a blank issue.](#)

[Edit templates](#)



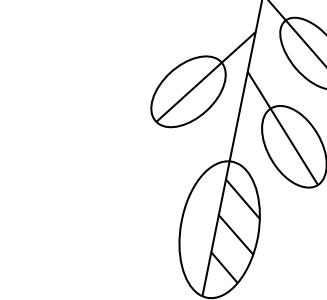
GOLDEN SETUP: BUILD SYSTEMS

Setting your CI:

- Github is definitely **#1** in the world, so
- **GitHub Actions** as a CI for Open Source



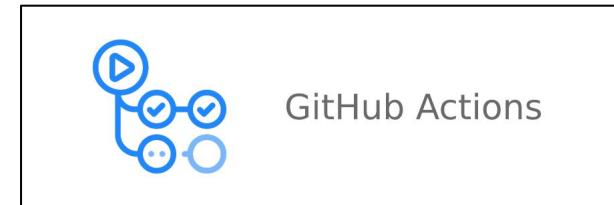
GitHub Actions



GOLDEN SETUP: BUILD SYSTEMS

Setting your CI:

- Github is definitely **#1** in the world, so
- **GitHub Actions** as a CI for Open Source
- `uses: gradle/gradle-build-action@v2`
`with:`
 `gradle-version: wrapper`
 `arguments: |`
 `build`



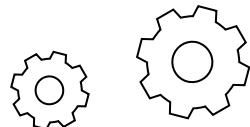
GOLDEN SETUP: VERSIONING

Versioning

<https://github.com/ajoberstar/reckon>



Reckon provides you an API to infer your next version from a Git repository



GOLDEN SETUP: VERSIONING

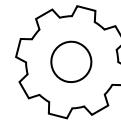
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- ***Stages*** for a more structured approach which is a subset of SemVer.

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GOLDEN SETUP: VERSIONING

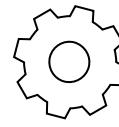
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- ***Snapshots*** for the classic Maven approach to pre-release versions.

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GOLDEN SETUP: VERSIONING

Versioning

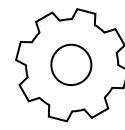
- **Stages** for a more structured approach which is a subset of SemVer.
- **Snapshots** for the classic Maven approach to pre-release versions.

(!) **SemVer** (1.1.1) is a golden standard for releases

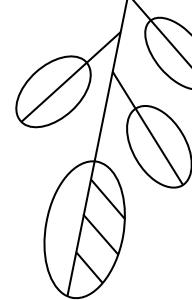
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Reckon provides you an API to infer your next version from a Git repository



GOLDEN SETUP: PUBLISHING AND RELEASING



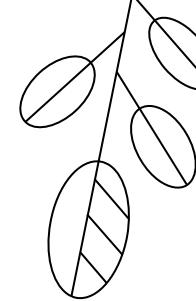
Not everyone **even** builds and **publishes** their results.
But we will continue to go to the top of the Pyramid!

And we will choose between

[Github Packages](#) and [Maven Central](#)



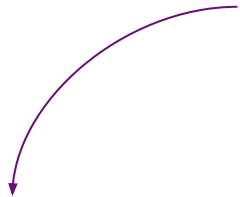
GOLDEN SETUP: PUBLISHING AND RELEASING



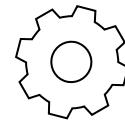
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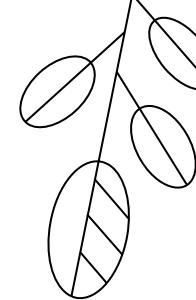
[Github Packages](#) and [Maven Central](#)



**Easy to create, not so
convenient to use**



GOLDEN SETUP: PUBLISHING AND RELEASING



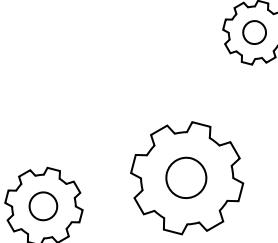
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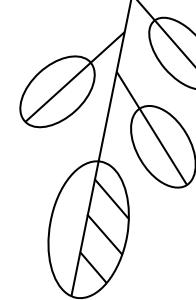
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Easy to create, **not so**
convenient to use

Painful,
but **convenient**



GOLDEN SETUP: PUBLISHING AND RELEASING



Not everyone **even** builds and **publishes** their results.
But we will continue to go to the top of the Pyramid!

And we will choose between

[Github Packages](#) and [Maven Central](#)

Anyway we need

'`maven-publish`' plugin

Easy to create, **not so**
convenient to use

Painful,
but **convenient**





Create repository for com.akuleshov7

[Edit](#)[Add comment](#)[Find on a board](#)[More](#)[Closed](#)

Details

Type:	+ New Project	Resolution:	Fixed
Priority:	Major		
Labels:	None		
Group Id:	com.akuleshov7		
Project URL:	http://akuleshov7.com/		
SCM url:	https://github.com/akuleshov7/akuleshov7.git		
Already Synced to Central:	No		

Description

Please create a repository for `com.akuleshov7`.

I own the domain akuleshov7.com and plan to deploy my artifacts from <https://github.com/akuleshov7> to maven central.

Attachments

...

 Drop files to attach, or [browse](#).

Activity

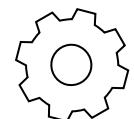
[All](#) [Comments](#) [Work Log](#) [History](#) [Activity](#) [Time In Status](#) [Transitions](#)[Oldest first](#)

Bot Central-OSSRH added a comment - 04/12/21 09:01 AM

[Click to view](#)

Do you own the domain akuleshov7.com? If so, please verify ownership via one of the following methods:

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- Setup a redirect to your Github page (if it does not already exist)
You can find more information here: <https://central.sonatype.org/publish/>





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[Edit](#)[Add comment](#)[Find on a board](#)[More](#)[Closed](#)[Details](#)

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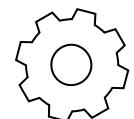
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[Edit](#)[Add comment](#)[Find on a board](#)[More](#) ▾[Closed](#) ▾

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▼ Activity

[All](#) [Comments](#) [Work Log](#) [History](#) [Activity](#) [Time In Status](#) [Transitions](#)

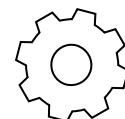
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Release automation tools and libs with Github Actions

Summary

Jobs

Build release

Run details

Usage

Workflow file

Build release

succeeded 3 weeks ago in 13m 0s

- > Set up job
- > Checkout
- > Set up JDK 11
- > Cache local Maven repository
- > Setup environment
- > Set version
- > Create settings.xml
- > Deploy artifacts
- > Build diktat.jar
- > Create Github Release
- > Upload assets to github releases
- > Update versions in pom.xml and documentation, update examples
- > Create pull request
- > Post Cache local Maven repository
- > Post Set up JDK 11
- > Post Checkout
- > Complete job



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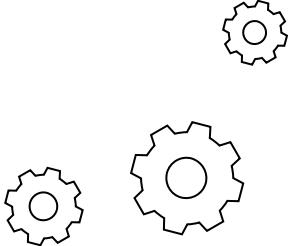
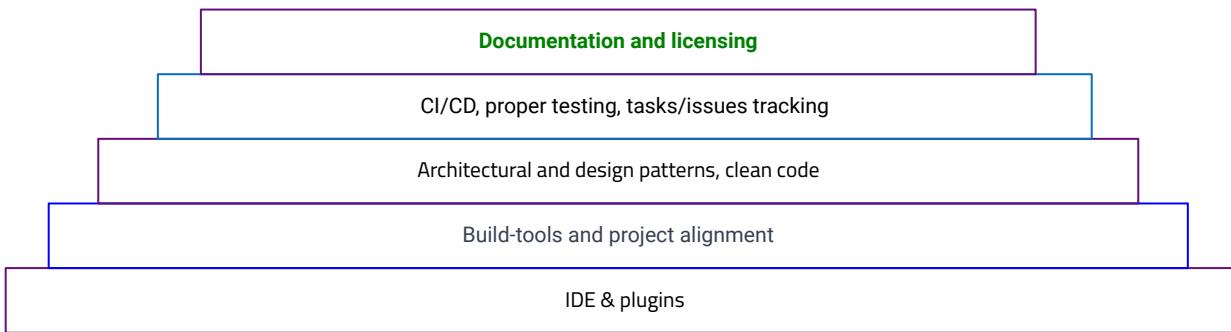
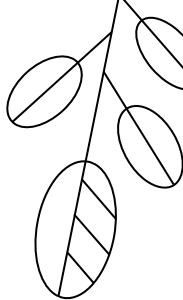
Build release

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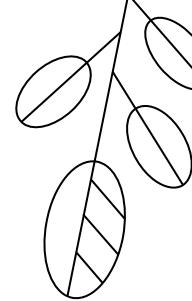
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DOCUMENTATION AND LICENSING

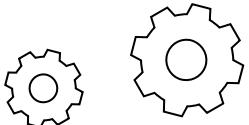


DOCUMENTATION AND LICENSING

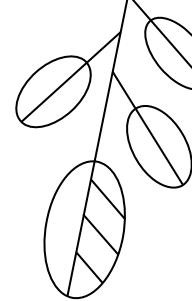


Minimum base:

- Documentation with latest updates



DOCUMENTATION AND LICENSING

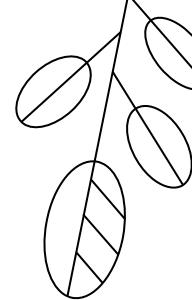


Minimum base:

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- Readable and laconic documentation



DOCUMENTATION AND LICENSING



Minimum base:

- Documentation with latest updates
- Readable and laconic documentation
- Releases description



DOCUMENTATION AND LICENSING

Minimum base:

- Documentation with latest updates
- Readable and laconic documentation
- Releases description
- **Examples** of usage

How to use

! as TOML is a foremost language for config files, we have also supported the deserialization from file. However, we are using `okio` to read the file, so it will be added as a dependency to your project if you will import `ktoml-file`. For basic scenarios of decoding strings you can simple use `ktoml-core`.

! don't forget to add the serialization plugin `kotlin("plugin.serialization")` to your project. Otherwise, `@Serialization` annotation won't work properly.

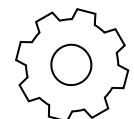
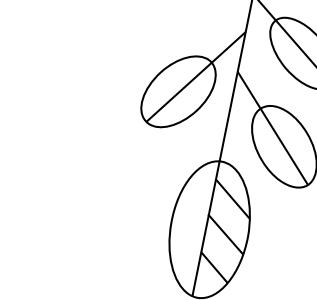
Deserialization:

- ▶ Straight-forward deserialization
- ▶ Partial deserialization
- ▶ Toml File deserialization

Serialization:

▼ Straight-forward serialization

```
// add extensions from 'kotlinx' lib to your project:  
import kotlinx.serialization.encodeToString  
// add com.akuleshov7:ktoml-core to your project:  
import com.akuleshov7.ktoml.Toml  
  
@Serializable  
data class MyClass(/* your fields */)  
  
val toml = Toml.decodeFromString(MyClass(/* ... */))
```



DOCUMENTATION AND LICENSING

Minimum base:

- Documentation with latest updates
- Readable and laconic documentation
- Releases description
- **Examples** of usage
- Proper license selection

How to use

! as TOML is a foremost language for config files, we have also supported the deserialization from file. However, we are using `okio` to read the file, so it will be added as a dependency to your project if you will import `ktoml-file`. For basic scenarios of decoding strings you can simple use `ktoml-core`.

! don't forget to add the serialization plugin `kotlin("plugin.serialization")` to your project. Otherwise, `@Serialization` annotation won't work properly.

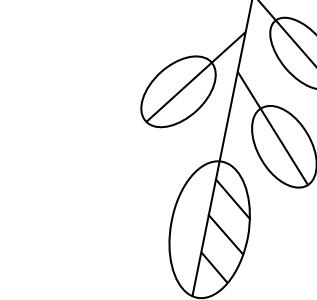
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DOCUMENTATION AND LICENSING

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- FOSS license audit

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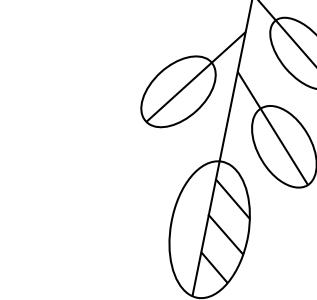
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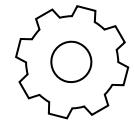
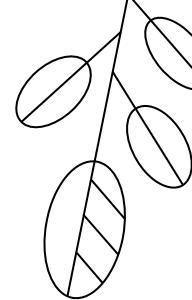
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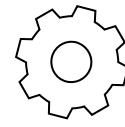
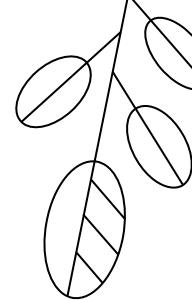
GOLDEN SETUP: DOCUMENTATION

- Documentation and
Kdoc/JavaDoc



GOLDEN SETUP: DOCUMENTATION

- Documentation and
Kdoc/JavaDoc
- Dokka API for Kotlin
<https://github.com/Kotlin/dokka>



GOLDEN SETUP: DOCUMENTATION

- Documentation and Kdoc/JavaDoc
- Dokka API for Kotlin
<https://github.com/Kotlin/dokka>
- Github Releases
(you can generate)

Jan 7

github-actions

v0.4.0

68f1697

Compare

Release v0.4.0

Functional changes

- Support for multi-line arrays by @BOOMeranGG in #166
- Support for trailing comma in array by @BOOMeranGG in #169
- Support of a new Char type in a Kotlin manner (as an extension to TOML) by @akuleshov7 in #176
- Support LocalTime by @BOOMeranGG in #170
- Removing a Double restriction: float support by @akuleshov7 in #175
- Limitation for Long type finally removed: support for integer types by @akuleshov7 in #171
- Migration to a new 1.8 Kotlin by @akuleshov7 in #178

Fixes

- Support for "inf" and "nan" values by @akuleshov7 in #180
- Fix Double encoding on JS by @NightEule5 in #158
- Support for special symbols with Char type by @akuleshov7 in #179
- Fix bug with inline comment by @BOOMeranGG in #168

Internals

- Add README encoding examples by @NightEule5 in #159
- Classes that inherit sealed class should not be in a one file anymore by @akuleshov7 in #162
- Separate parsing from writing in node constructors by @NightEule5 in #165
- Quick POC at non-Long numerics (encoding and decoding) by @aSemy in #164

New Contributors

- @BOOMeranGG made their first contribution in #168
- @aSemy made their first contribution in #164

Full Changelog: [v0.3.0...v0.4.0](#)

Contributors



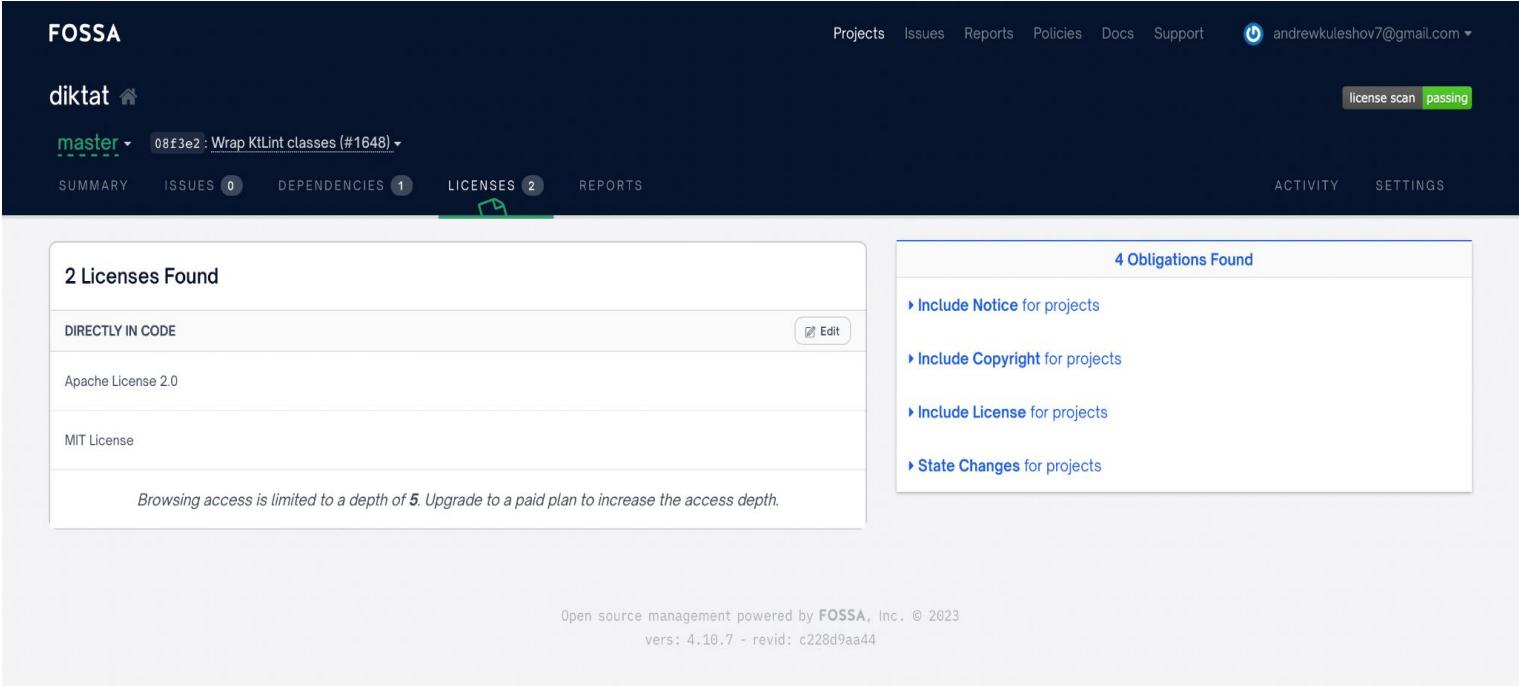
aSemy, NightEule5, and 2 other contributors

▶ Assets 2

4 people reacted

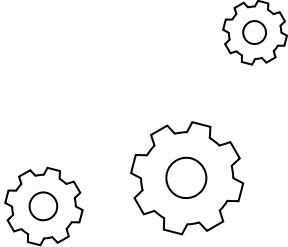
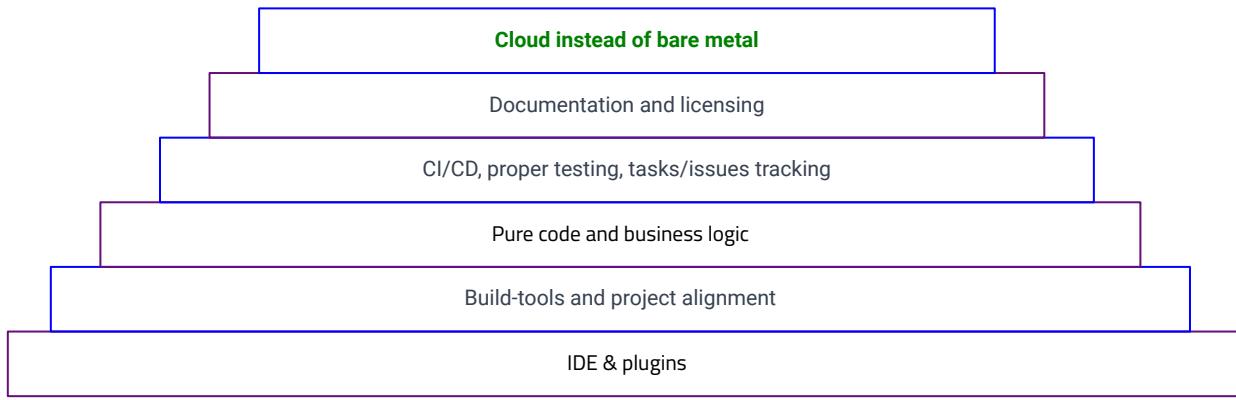
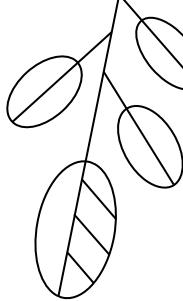
GOLDEN SETUP: DEPENDENCIES AND UPDATES

<https://fossa.com>



The screenshot shows the FOSSA web interface for a project named "diktat". The top navigation bar includes links for Projects, Issues, Reports, Policies, Docs, Support, and a user account. A "license scan passing" badge is visible. The main dashboard displays a summary of the project's status, including a "master" branch with a commit message "08f3e2 : Wrap KtLint classes (#1648)". Below this are tabs for SUMMARY, ISSUES (0), DEPENDENCIES (1), LICENSES (2), and REPORTS. The LICENSES tab is currently selected, showing "2 Licenses Found" with entries for "DIRECTLY IN CODE": Apache License 2.0 and MIT License. A note at the bottom states: "Browsing access is limited to a depth of 5. Upgrade to a paid plan to increase the access depth." To the right, a sidebar titled "4 Obligations Found" lists: "Include Notice for projects", "Include Copyright for projects", "Include License for projects", and "State Changes for projects". The footer contains the text: "Open source management powered by FOSSA, Inc. © 2023 vers: 4.10.7 - revid: c228d9aa44".

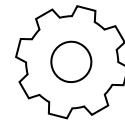
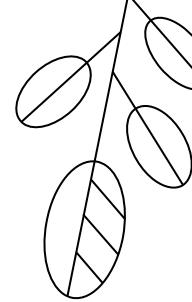
CLOUD INSTEAD OF BARE METAL



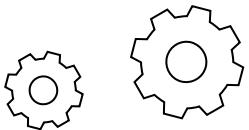
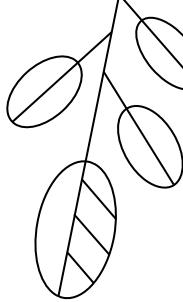
GOLDEN SETUP: CLOUD

Local POC

>>



GOLDEN SETUP: CLOUD

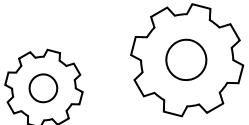
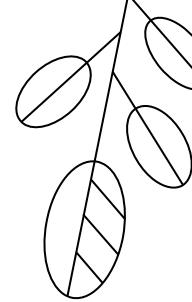


GOLDEN SETUP: CLOUD



Docker

Kubernetes



GOLDEN SETUP: CLOUD



⚡ **save-backend**

The screenshot shows a GitHub Container Registry page for the repository "saveourtool/save-backend". It includes sections for "Details", "Recent tagged image versions", and "Collaborators".

Details

- Install from the command line: `$ docker pull ghcr.io/saveourtool/save-backend:0.4.0-alpha.0.198-67abaca`
- Last published: 2 hours ago
- Discussions: 4
- Issues: 166
- Total downloads: 903

Recent tagged image versions

Tag	Published	Digest
0.4.0-alpha.0.198-67abaca	About 2 hours ago	...
0.4.0-alpha.0.197-4094393	1 day ago	...
0.4.0-alpha.0.196-e043187	2 days ago	...
0.4.0-alpha.0.195-1fe8c54	5 days ago	...
0.4.0-alpha.0.194-a70658a	5 days ago	...

Collaborators

- petertrr Peter Trifanov
- nulls Nariman Abdullin
- sanyavertolot Alexander Frolov
- renovate
- Cheshiriks Vladislav Frolov

Actions

- Start a discussion
- Open an issue
- Package settings

Docker

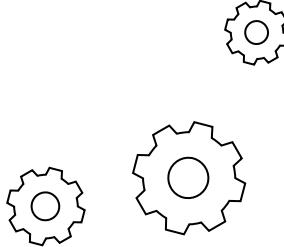
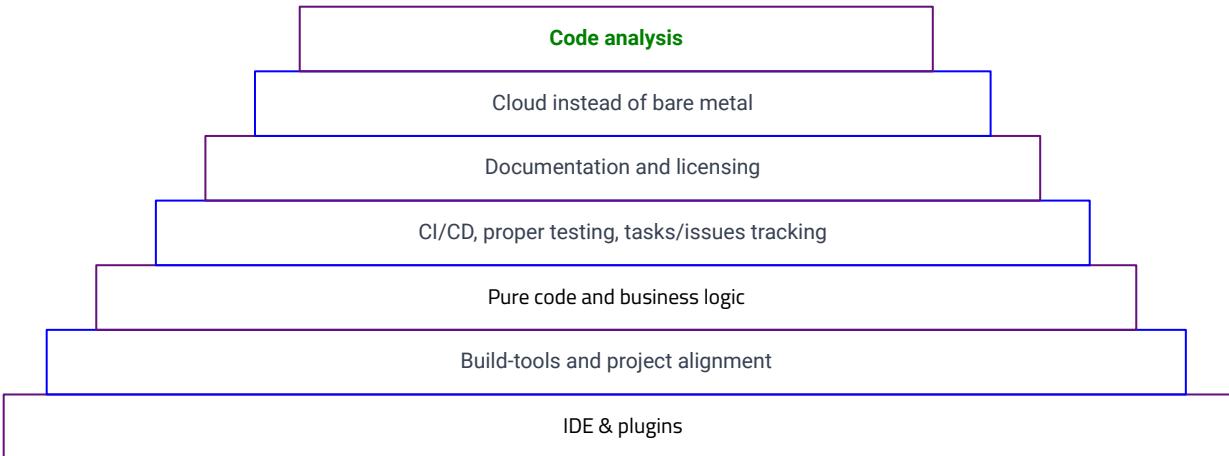
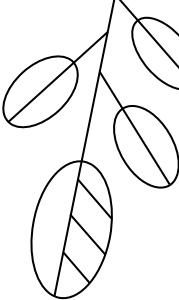
Kubernetes

Github Container Registry:

You can store and manage Docker and OCI images in the Container registry, which uses the package namespace
<https://ghcr.io>



CODE ANALYSIS



CODE ANALYSIS

SARIF

github-code-scanning bot found potential problems yesterday

[View changes](#)

```
main.js
11 +     const js = Buffer.concat(chunks).toString('utf8');
12 +     (async () => {
13 +       try {
14 +         const result = await Promise.resolve(eval(js)); // eslint-disable-line no-eval
```

✗ Check failure on line 14 in main.js

Code scanning

Code injection Critical

User-provided value flows to here and is interpreted as code.

Show more details

Show paths Dismiss alert ▾

 codercat yesterday • edited

We can fix this before release, see how we handled a similar alert recently in [this PR!](#)

<https://github.com/marketplace?category=code-quality>

Watch recording 

TALK

Zero false positive code analysis in Java with dynamic symbolic execution

 Dmitry Ivanov
Huawei

 Dmitry Mordvinov

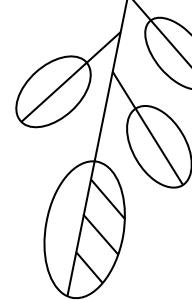
RU  Tooling



CodeQL



GOLDEN SETUP: BACK TO PLUGINS



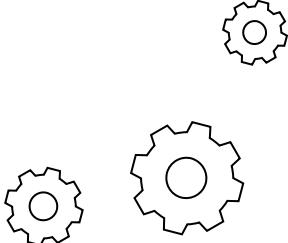
Code Style/Code Analysis plugins

Kotlin

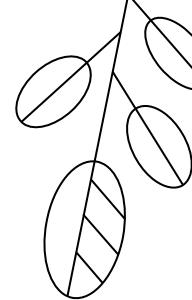
Java



*Kotlin Linters:
which should
I choose?



GOLDEN SETUP: BACK TO PLUGINS



Code Style/Code Analysis plugins

Kotlin

Java

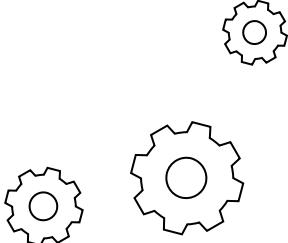
checkstyle



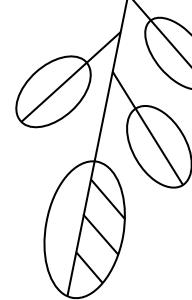
{PMD}



*Kotlin Linters:
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GOLDEN SETUP: BACK TO PLUGINS



Code Style/Code Analysis plugins

Kotlin



An anti-bikeshedding Kotlin linter with built-in formatter.

detekt

diktat

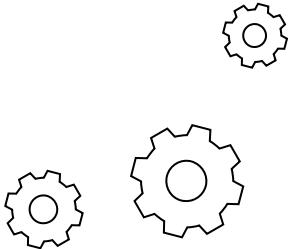


Java

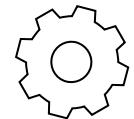
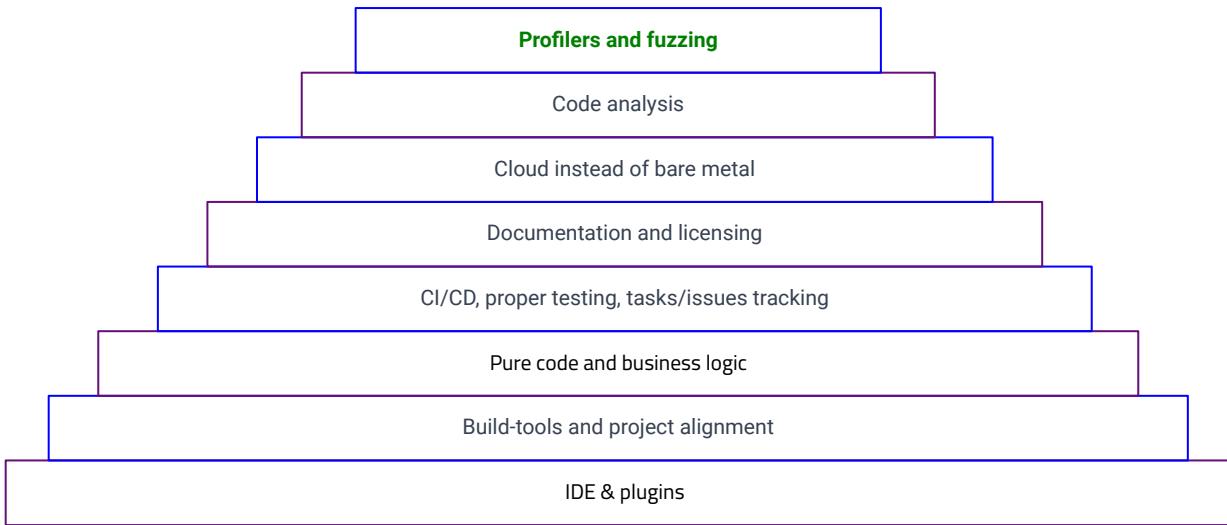
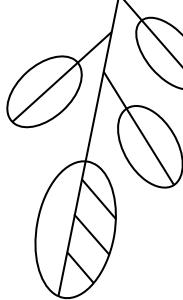


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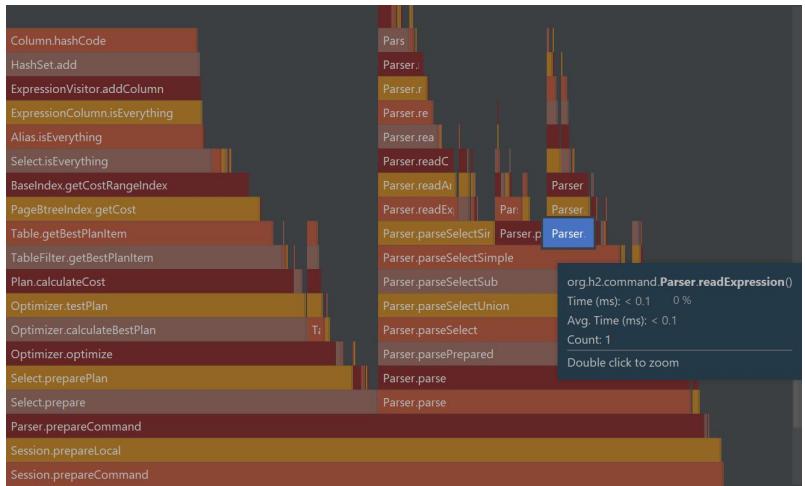
(?) Which linter do you use?



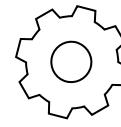
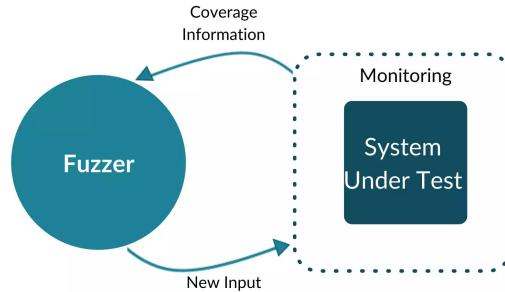
PROFILERS AND FUZZING



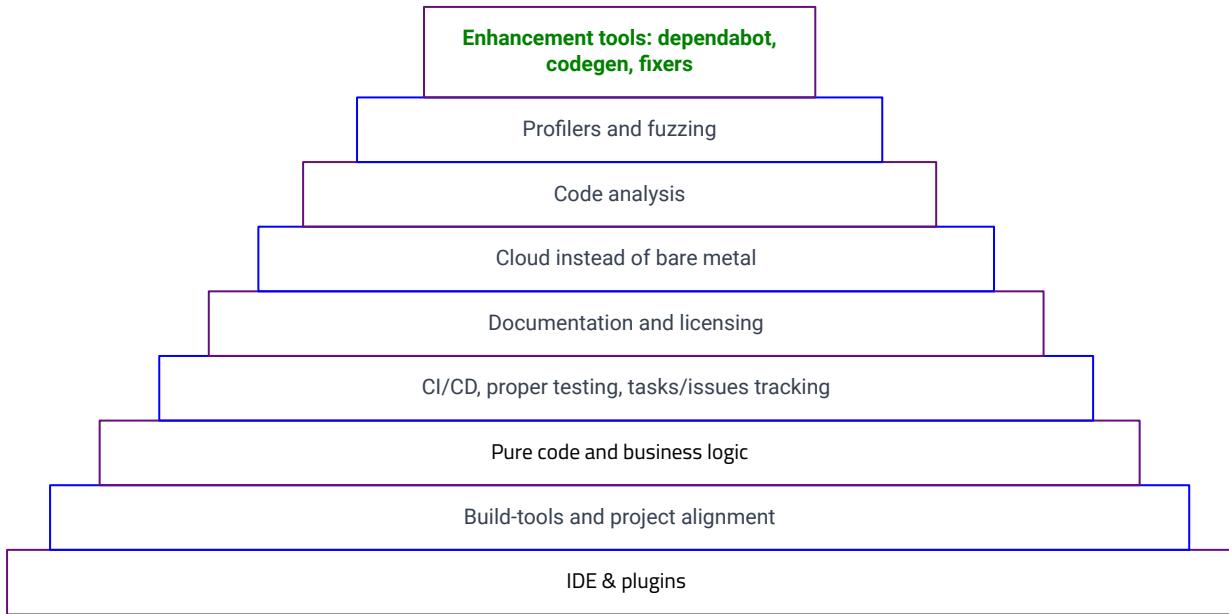
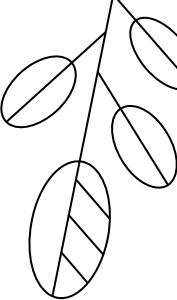
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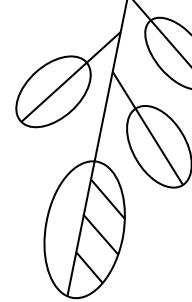
<https://github.com/rohanpadhye/JQF>



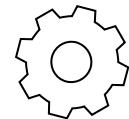
ENHANCEMENT TOOLS: DEPENDABOT, CODEGEN, FIXERS



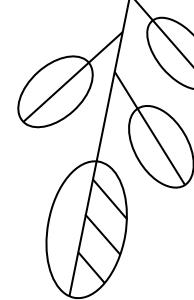
ENHANCEMENT TOOLS: DEPENDABOT, CODEGEN, FIXERS



- Tools for **automated** code updates
(versions/API/etc.)



ENHANCEMENT TOOLS: DEPENDABOT, CODEGEN, FIXERS



Dependabot

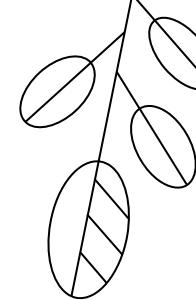


<https://github.com/renovatebot/renovate>

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ENHANCEMENT TOOLS: DEPENDABOT, CODEGEN, FIXERS

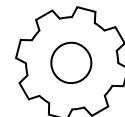


Dependabot

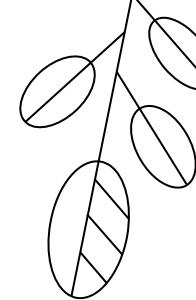


<https://github.com/renovatebot/renovate>

- Tools for **automated** code updates (versions/API/etc.)
- Readme/code/yarn/etc. updates



ENHANCEMENT TOOLS: DEPENDABOT, CODEGEN, FIXERS

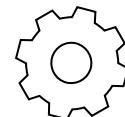


Dependabot

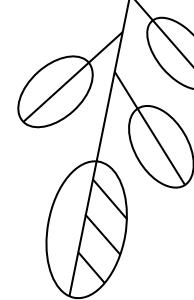


<https://github.com/renovatebot/renovate>

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- Readme/code/yarn/etc. updates
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ENHANCEMENT TOOLS: DEPENDABOT, CODEGEN, FIXERS

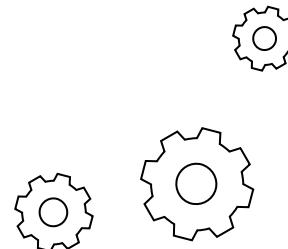


Dependabot



<https://github.com/renovatebot/renovate>

- Tools for **automated** code updates (versions/API/etc.)
- Readme/code/yarn/etc. updates
- Code generation from configs
- Automated **code refactoring** tools



GOLDEN SETUP: DEPENDENCIES AND UPDATES

Dependency Dashboard #197

[Open](#) 7 tasks · renovate · bot · opened this issue last week · 0 comments

renovate · bot · commented last week · edited · Contributor · ...

This issue lists Renovate updates and detected dependencies. Read the [Dependency Dashboard](#) docs to learn more.

Awaiting Schedule

These updates are awaiting their schedule. Click on a checkbox to get an update now.

- Update actions/checkout action to v2.7.0
- Update all non-major dependencies (except core Kotlin) (`org.junit.jupiter:junit-jupiter-engine`, `org.ajoberstar.grgit:grgit-core`, `org.ajoberstar.reckon:reckon-gradle`, `io.github.gradle-nexus:publish-plugin`, `io.gitlab.arturbosch.detekt:detekt-gradle-plugin`, `org.cqfn.diktat:diktat-gradle-plugin`)
- Update dependency gradle to v8
- Update dependency `org.ajoberstar.grgit:grgit-core` to v5
- Lock file maintenance

Open

These updates have all been created already. Click a checkbox below to force a retry/rebase of any.

- Update all github actions (major) (`actions/cache`, `actions/checkout`, `actions/setup-java`, `actions/upload-artifact`, `codecov/codecov-action`, `github/codeql-action`)

Detected dependencies

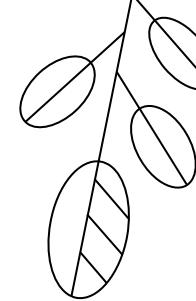
- ▶ `github-actions`
- ▶ `gradle`
- ▶ `gradle-wrapper`

Check this box to trigger a request for Renovate to run again on this repository

...



GOLDEN SETUP: DEPENDENCIES AND UPDATES



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[Open](#) 7 tasks · renovate · bot · opened this issue last week · 0 comments

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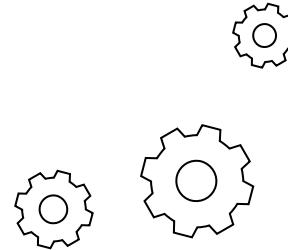
- Update all github actions (major) (actions/cache , actions/checkout , actions/setup-java , actions/upload-artifact , codecov/codecov-action , github/codeql-action)

Detected dependencies

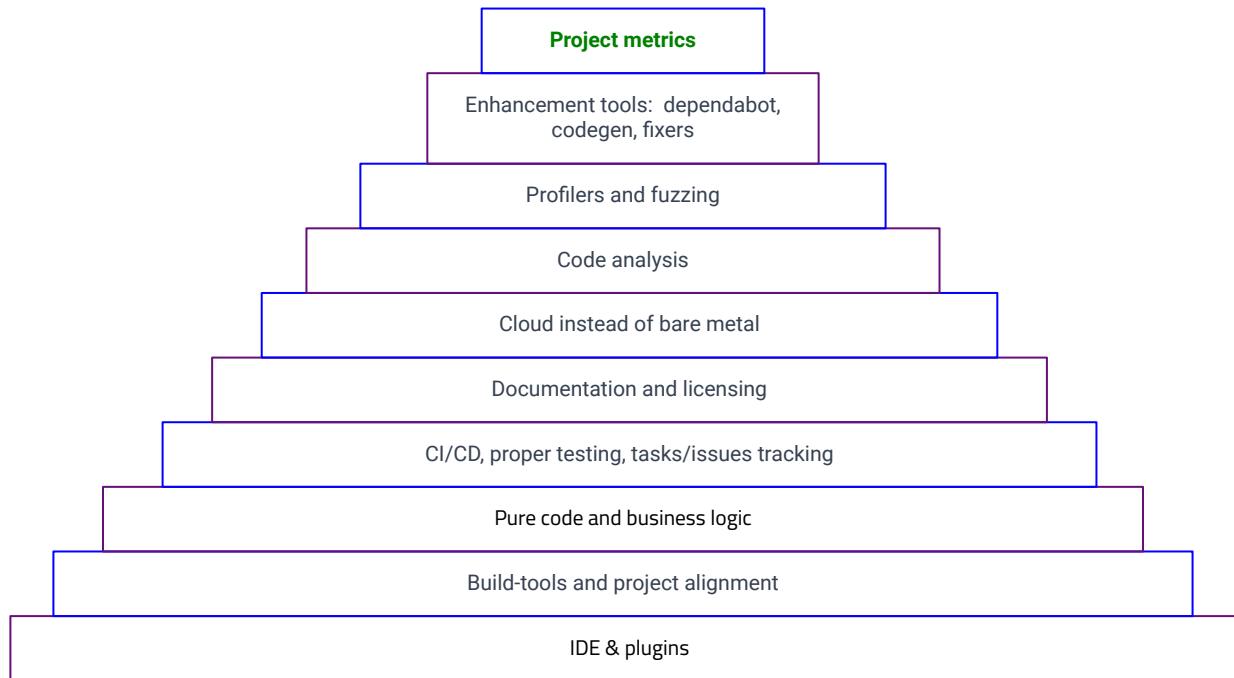
- ▶ github-actions
- ▶ gradle
- ▶ gradle-wrapper

Check this box to trigger a request for Renovate to run again on this repository

```
{  
  "enabled": true,  
  "dependencyDashboard": true,  
  "schedule": [  
    "before 4am on Monday"  
  ],  
  "lockFileMaintenance": {  
    "enabled": true  
  },  
  "packageRules": [  
    {  
      "managers": ["github-actions"],  
      "groupName": "all github actions",  
      "groupSlug": "all-github-actions"  
    },  
    {  
      "managers": ["gradle"],  
      "matchPackagePatterns": [  
        "*"  
      ],  
      "excludePackagePatterns": [  
        "^org\\\\.jetbrains\\\\.kotlin[.:]",  
        "^org\\\\.cqfn\\\\.diktat\\:\\diktat-gradle-plugin"  
      ],  
      "matchUpdateTypes": [  
        "minor",  
        "patch"  
      ],  
      "groupName": "all non-major dependencies",  
      "groupSlug": "all-minor-patch"  
    }  
  }  
}
```



PROJECT METRICS

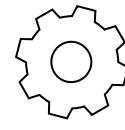
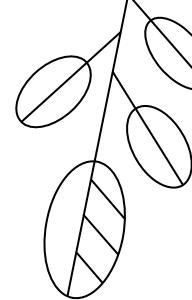


PROJECT METRICS

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k



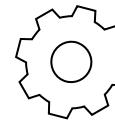
PROJECT METRICS

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

<https://hitsofcode.com>



PROJECT METRICS

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

<https://hitsofcode.com>



Cyclomatic complexity
Cognitive complexity

(?) Write "+" if you know what is it.



PROJECT METRICS

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

<https://hitsofcode.com>



Cyclomatic complexity
Cognitive complexity

codebeat A

<https://codebeat.co>



PROJECT METRICS

Code coverage

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

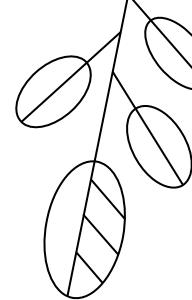
<https://hitsofcode.com>



Cyclomatic complexity
Cognitive complexity

codebeat A

<https://codebeat.co>



PROJECT METRICS

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

Code coverage

CII Best Practices Level:

CII Best Practices Tiered Percentage:

CII Best Practices Summary:



cii gold

cii 107%

cii in progress 94%

<https://hitsofcode.com>



<https://bestpractices.coreinfrastructure.org>

Cyclomatic complexity
Cognitive complexity

codebeat A

<https://codebeat.co>



PROJECT METRICS

Code coverage

Popularity
Downloads
Stars, forks

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

<https://hitsofcode.com>



CII Best Practices Level:

CII Best Practices Tiered Percentage:

CII Best Practices Summary:



<https://bestpractices.coreinfrastructure.org>

Cyclomatic complexity
Cognitive complexity

codebeat A

<https://codebeat.co>



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Star 3902

[What's new](#)

Star History Monthly Pick | February 2023 >

Best of 2022

- Data, Infra & DevTools
- Platform Engineering
- Open-Source Alternatives
- Front-end

Monthly Pick

- 2023 Feb
- 2023 Jan
- 2022 Dec

Collections

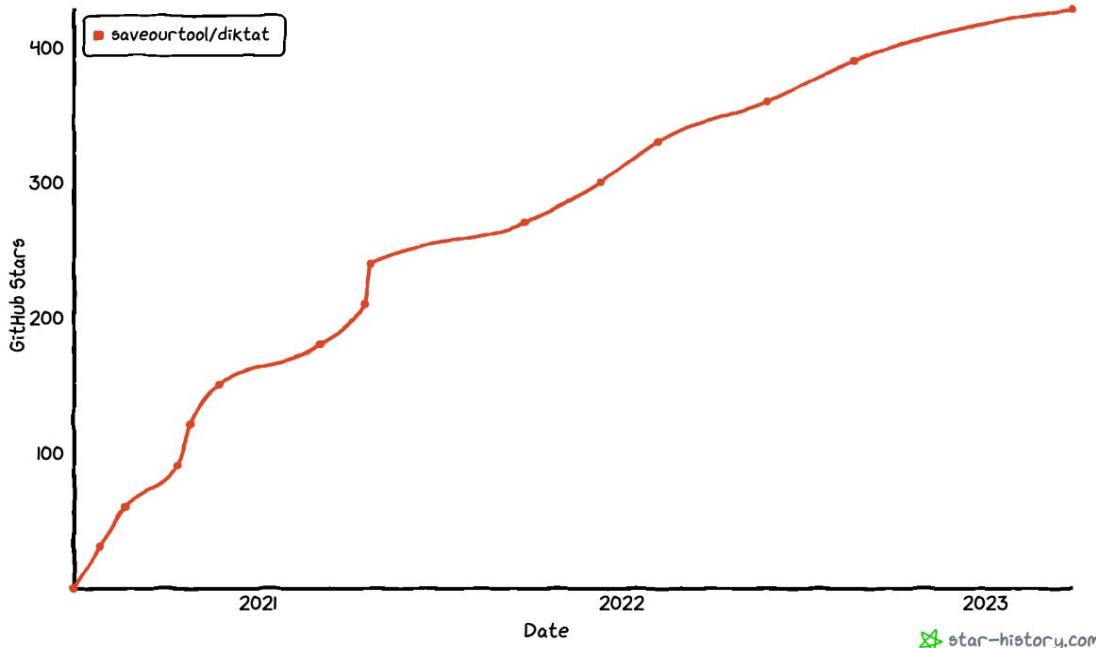
- AI Model
- Database DevOps
- Workflow Orchestration

[...add next repository](#)[View star history](#)

saveourtool/diktat

[Clear all](#) Align timeline

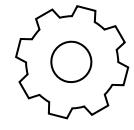
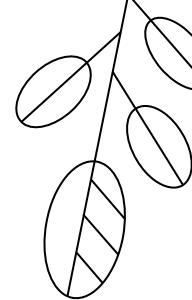
Star History

<https://star-history.com/>

star-history.com

GOLDEN SETUP: CODE COVERAGE

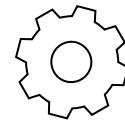
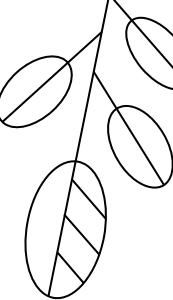
[JaCoCo](#): generates a coverage report



GOLDEN SETUP: CODE COVERAGE

[JaCoCo](#): generates a coverage report

```
fun Project.configureJacoco() {  
    apply<JacocoPlugin>()  
  
    tasks.named<Test>("test") {  
        finalizedBy("jacocoTestReport")  
    }  
    tasks.named<JacocoReport>("jacocoTestReport") {  
        dependsOn(tasks.named<Test>("test"))  
        reports {  
            xml.required.set(true)  
            html.required.set(true)  
        }  
    }  
}
```



GOLDEN SETUP: CODE COVERAGE

[JaCoCo](#): generates a coverage report

```
fun Project.configureJacoco() {  
    apply<JacocoPlugin>()  
  
    tasks.named<Test>("test") {  
        finalizedBy("jacocoTestReport")  
    }  
    tasks.named<JacocoReport>("jacocoTestReport") {  
        dependsOn(tasks.named<Test>("test"))  
        reports {  
            xml.required.set(true)  
            html.required.set(true)  
        }  
    }  
}
```

codecov/codecov-action@v3



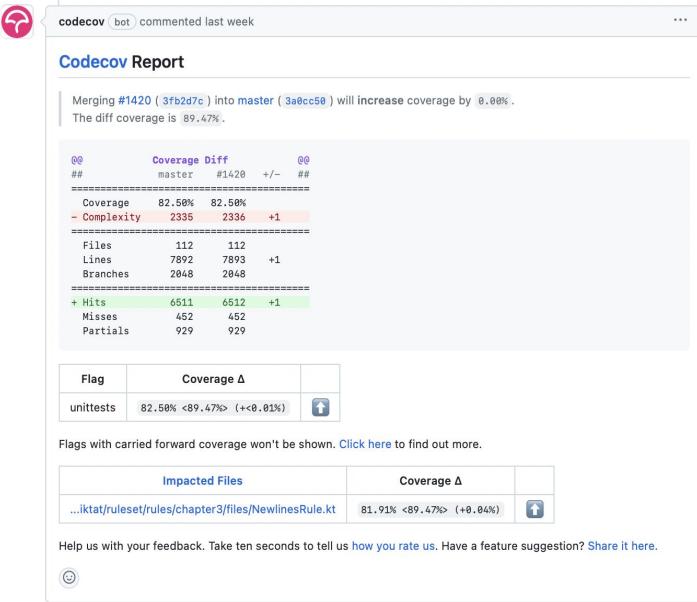
GOLDEN SETUP: CODE COVERAGE

JaCoCo: generates a coverage report

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fun Project.configureJacoco() {  
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    tasks.named<Test>("test") {  
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    }  
    tasks.named<JacocoReport>("jacocoTestReport") {  
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        reports {  
            xml.required.set(true)  
            html.required.set(true)  
        }  
    }  
}
```

codecov/codecov-action@v3

Codecov bot!



Merging #1420 (3fb2d7c) into master (3a0cc50) will increase coverage by 0.00%.
The diff coverage is 89.47%.

	Coverage	Diff	
master	82.50%	82.50%	#1420
- Complexity	2335	2336	+1
Files	112	112	
Lines	7892	7893	+1
Branches	2848	2848	
+ Hits	6511	6512	+1
Misses	452	452	
Partials	929	929	

Flag	Coverage Δ
unitests	82.50% <89.47%> (+<0.01%)

Flags with carried forward coverage won't be shown. [Click here](#) to find out more.

Impacted Files	Coverage Δ
...iktat/ruleset/rules/chapter3/files/NewlinesRule.kt	81.91% <89.47%> (+0.04%)

Help us with your feedback. Take ten seconds to tell us [how you rate us](#). Have a feature suggestion? [Share it here](#).



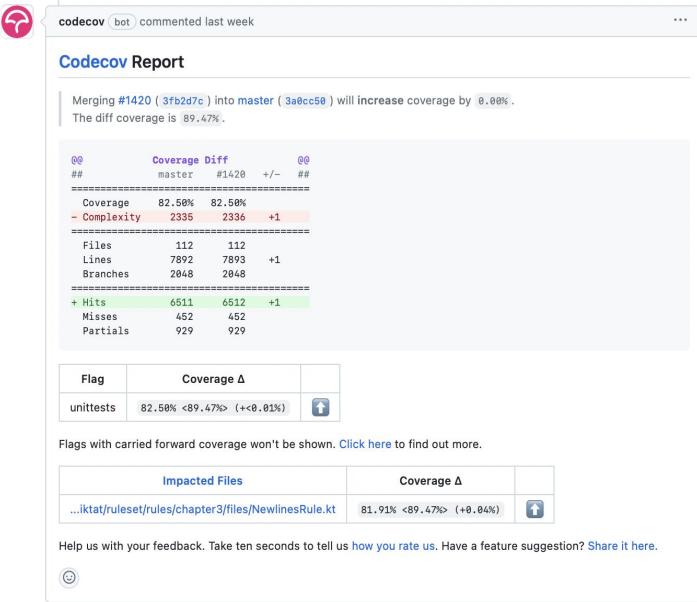
GOLDEN SETUP: CODE COVERAGE

JaCoCo: generates a coverage report

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fun Project.configureJacoco() {  
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    tasks.named<Test>("test") {  
        finalizedBy("jacocoTestReport")  
    }  
    tasks.named<JacocoReport>("jacocoTestReport") {  
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            html.required.set(true)  
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codecov/codecov-action@v3

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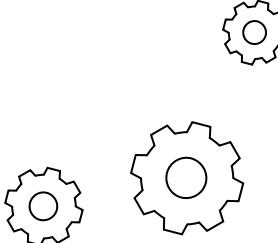
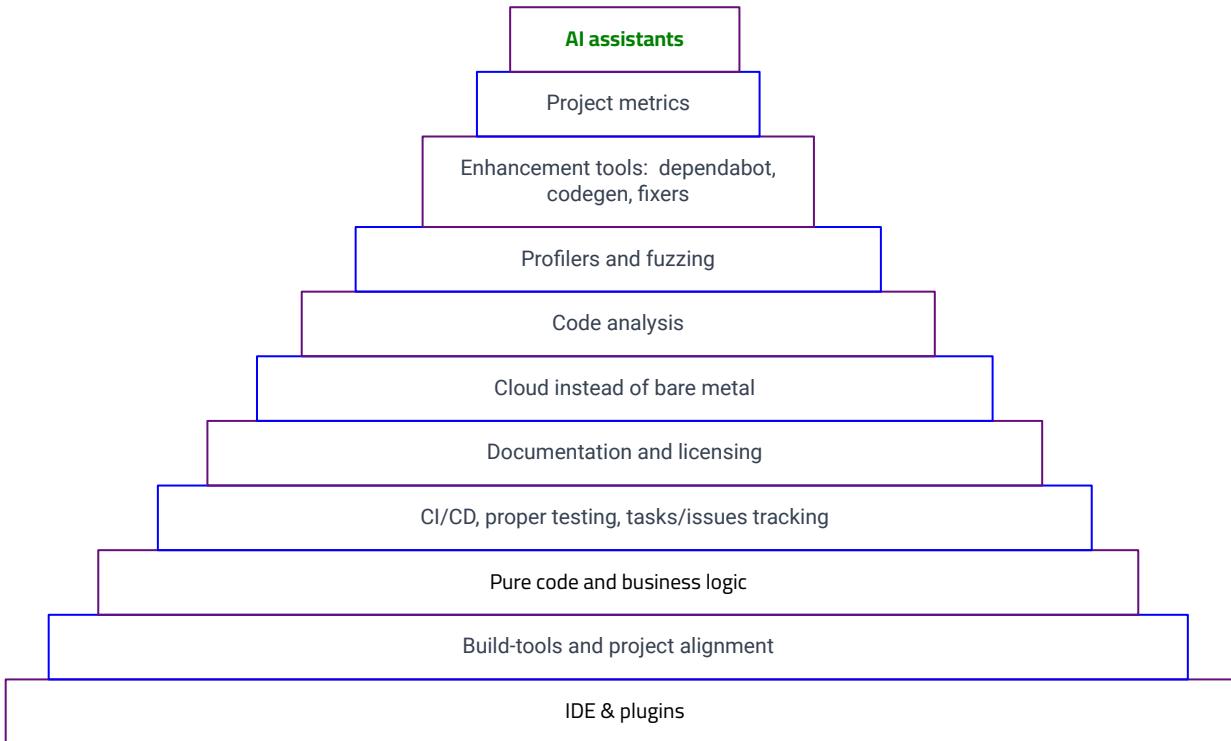
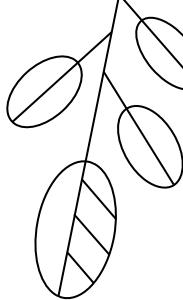
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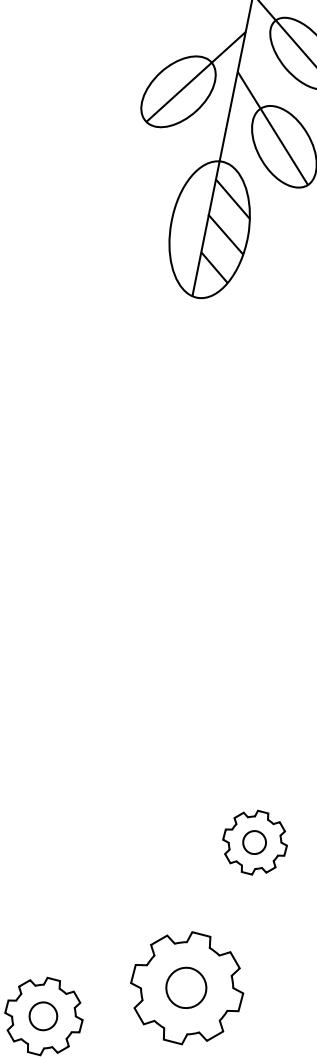


AI ASSISTANTS



AI ASSISTANTS

This talk was generated by GPT4



AI ASSISTANTS

Copilot for Pull Requests

Pull requests are a central part of the GitHub user experience. Copilot for PRs brings the power of Copilot to the PR experience, to help you write better PR descriptions, and to help your team review and merge PRs faster.

WHAT'S IT FOR?

Making pull requests magical.

SHARE



STAGE

WAITLIST

WHO MADE IT?

- Andrew Rice
- Devon Rifkin
- Matt Rothenberg
- Max Schaefer
- Aqeel Siddiqui
- Don Syme
- Albert Ziegler

<https://github.com/apps/copilot4prs>

This talk was generated by GPT4



Your AI pair programmer

GitHub Copilot uses the OpenAI Codex to suggest code and entire functions in real-time, right from your editor.

[Get Copilot for Business >](#)

[Compare plans](#)

sentiments.ts write_sql.go parse_expenses.py addresses.rb

```
1#!/usr/bin/env ts-node
2
3import { fetch } from "fetch-h2";
4
5// Determine whether the sentiment of text is positive
6// Use a web service
7async function isPositive(text: string): Promise<boolean> {
8  const response = await fetch(`http://text-processing.com/api/sentiment/`, {
9    method: "POST",
10    body: `text=${text}`,
11    headers: {
12      "Content-Type": "application/x-www-form-urlencoded",
13    },
14  });
15  const json = await response.json();
16  return json.label === "pos";
17}
```

Copilot

Replay

Trained on billions of lines of code, GitHub Copilot

AI ASSISTANTS

PR-Codex

A github app to summarize code diffs in pull requests.

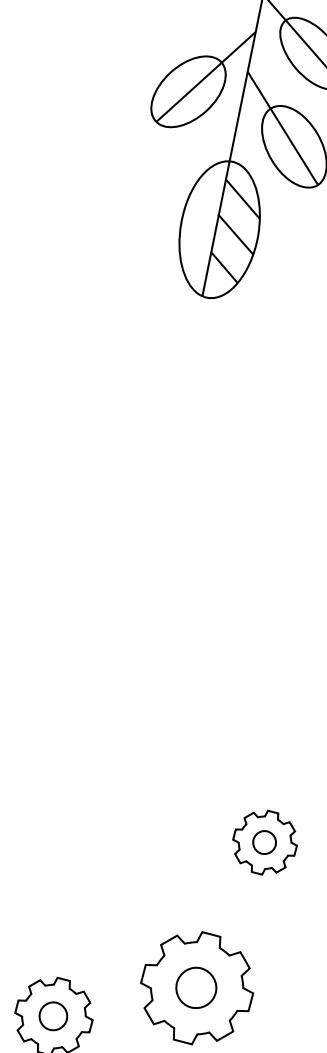
Powered by ChatGPT.

[Install on your repo](#)

It's free

The screenshot shows the PR-Codex GitHub application interface. At the top, there's a sidebar with a tree icon and several commit messages: "fix", "meta", "homepage styling", "prevented openAI token limit", and "formatting". To the right, a list of commits is shown with green checkmarks: "008e840", "c9c70f9" (1 participant), "e9d28ca", "7134ebc", and "2583810". Below this is a "Lock conversation" button. A message from "vercel bot" indicates the latest updates on projects. A table shows the status of a deployment for "pr-codex": Name (pr-codex), Status (Ready (Inspect)), Preview (Visit Preview), and Updated (Mar 16, 2023 at 1:06PM (UTC)).

The screenshot shows a GitHub pull request page. A message from "pr-codex bot" provides a detailed summary of the changes. The summary states: "This PR adds a new feature of getting a summary of code diffs in a pull request. It also updates the UI of the homepage." Under "Detailed summary", it lists: "• Adds package-lock.json to .gitignore".



BEAUTY FOR OTHER DEVELOPERS



GOLDEN SETUP: BEAUTY

- Logo (Midjourney?)
- Shields and badges!!!
- Community friendliness

The screenshot shows a GitHub README.md page for the diKTat project. At the top is a logo consisting of two overlapping orange and blue squares forming an 'X' shape. Below the logo are several shields and badges: "Build and test" (passing), "Run deteKT" (passing), "Run diKTat from release version" (passing), "codecov" (81%), "release v1.2.5", "maven-central v1.2.5", and "Chat on Telegram". Further down are statistics: "Hits-of-Code 154.9k", "total lines 78k", "repo size 8.01 MB", "awesome", and "kotlin". The main text describes diKTat as a strict coding standard for Kotlin and a collection of Kotlin code style rules implemented as AST visitors on top of KTLint. It can be used for detecting and autofixing code smells in CI/CD process. A link to the full list of available supported rules and inspections is provided.

DiKTat is a strict [coding standard](#) for Kotlin and a collection of [Kotlin](#) code style rules implemented as AST visitors on the top of [KTLint](#). It can be used for detecting and autofixing code smells in CI/CD process. The full list of available supported rules and inspections can be found [here](#).

Now diKTat was already added to the lists of [static analysis tools](#), to [kotlin-awesome](#) and to [kompar](#). Thanks to the community for this support!

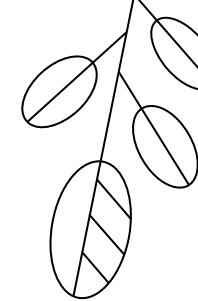
The screenshot shows the GitHub Actions workflow for "Run diKTat (release)". The sidebar on the left lists other workflows like "Build and test", "CodeQL", and "Run diKTat (snapshot)". The main area shows a table of recent workflow runs:

Event	Status	Created	Actions
Diktat command	feature/diktat-command	13 hours ago	...
Diktat command	feature/diktat-command	14 hours ago	...
Diktat command	feature/diktat-command	14 hours ago	...
Diktat command	feature/diktat-command	14 hours ago	...

A "Create status badge" button is visible at the top right of the workflow list.



GOLDEN SETUP: BEAUTY



Shields IO

Pixel-perfect Retina-ready Fast Consistent Hackable No tracking

search

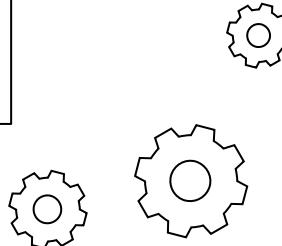
Love Shields? Please consider [donating](#) to sustain our activities

[Build](#) [Code Coverage](#) [Test Results](#) [Analysis](#) [Chat](#) [Dependencies](#) [Size](#) [Downloads](#) [Funding](#)
[Issue Tracking](#) [License](#) [Rating](#) [Social](#) [Version](#) [Platform & Version Support](#) [Monitoring](#) [Activity](#)
[Other](#)

Build

AppVeyor:	build passing	/appveyor/build/:user/:repo
AppVeyor branch:	build passing	/appveyor/build/:user/:repo/:branch
AppVeyor Job:	build passing	/appveyor/job/build/:user/:repo/:job
AppVeyor Job branch:	build passing	/appveyor/job/build/:user/:repo/:job/:branch
Azure DevOps builds:	build passing	/azure-devops/build/:organization/:projectId/:definitionId
Azure DevOps builds (branch):	build passing	/azure-devops/build/:organization/:projectId/:definitionId/:branch
Azure DevOps builds (stage):	build passing	/azure-devops/build/:organization/:projectId/:definitionId/:branch?stage=Successful%20Stage
Azure DevOps builds (job):	build passing	/azure-devops/build/:organization/:projectId/:definitionId/:branch?job=Successful%20Job&stage=Successful%20Stage
Azure DevOps releases:	deployment passing	/azure-devops/release/:organization/:projectId/:definitionId/:environmentId
Bitbucket Pipelines:	build passing	/bitbucket/pipelines/:user/:repo/:branch*
Bitrise:	bitrise success	/bitrise/:appId/:branch??token=1ESRN9rEFFFDq92JtXs_jw
Buildkite:	build passing	/buildkite/:identifier
Buildkite (branch):	build passing	/buildkite/:identifier/:branch
CircleCI:	build passing	/circleci/build/:vcstype/:user/:repo/:branch?token=abc123def456
Cirrus CI - Base Branch Build Status:	build passing	/cirrus/github/:user/:repo
Cirrus CI - Specific Branch Build Status:	build passing	/cirrus/github/:user/:repo/:branch

<https://shields.io/category/build>



GOLDEN SETUP: BEAUTY

saveourtool / diktat Public

Discussions Actions Projects Wiki Security Insights Settings

Adding custom rules to my own project #747

Answered by petertrr vorobeij asked this question in Q&A

 vorobeij on Feb 3, 2021

Hello,

I am wandering, can I add custom rules in my project without adding them to diktat repository?
I can do it with pure ktlint, but diktat has an amazing test framework. Can I add packages diktat-common and diktat-test-framework as gradle dependency to create my own rules?

Something like this (pseudocode):
app's `build.gradle`

```
apply diktat
apply ktlint
```

module's `build.gradle`

```
use klint rules from lint-rules module
```

Project structure

```
app
-module1
-module2
-lint-rules
--config.yaml
--src with my rules and tests for them
```

 4 

Answered by petertrr on Feb 3, 2021

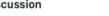
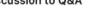
Category Q&A

Labels None yet

4 participants

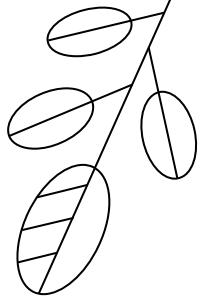
Notifications 

You're receiving notifications because you're watching this repository.

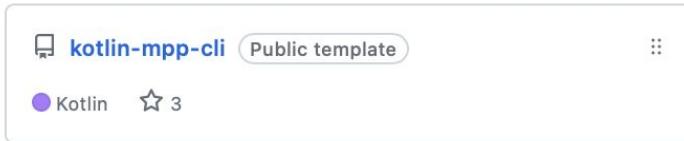
 Lock conversation
 Transfer this discussion
 Pin discussion
 Pin discussion to Q&A
 Create issue from discussion
 Delete discussion

Events

 akuleshov7 Marked an Answer 3y



AS A REFERENCE

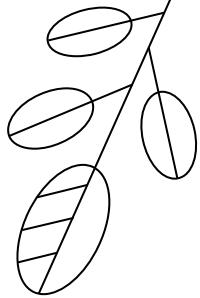


<https://github.com/akuleshov7/kotlin-mpp-cli>

<https://github.com/saveourtool/diktat>

<https://github.com/akuleshov7/ktoml>

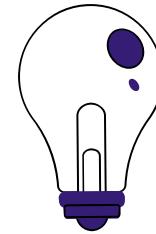
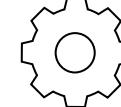




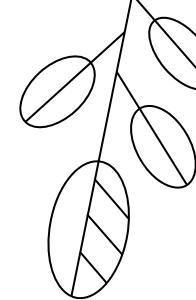
03

CONCLUSION

AFTERWORD



FUTURE OF DEV-TOOLS



GitHub Next

GitHub Next investigates the future of software development.

We are a team of researchers and engineers at GitHub, exploring things beyond the adjacent possible. We prototype tools and technologies that will change our craft. We identify new approaches to building healthy, productive software engineering teams.

<https://githubnext.com>



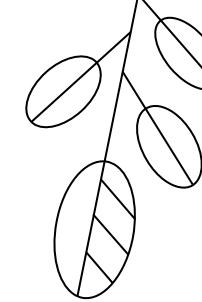
Features

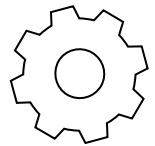
[Actions](#) [Packages](#) [Security](#) [Codespaces](#) [Copilot](#) [Code review](#) [Search](#) [Issues](#) [Discussions](#)



**Неважно с какой
скоростью ты
двигаешься**

**Главное - не
останавливаться**





THANK YOU FOR LISTENING!

<https://github.com/akuleshov7>
<https://github.com/korifev>

