

Kotlin и Java разработка в open-source

Или open-source, который мы заслужили



Kotlin и Java разработка в open-source

Или open-source, который мы заслужили



\$ whoami?



Андрей Кулешов

\$ whoami?



Андрей Кулешов

Стажка

phd 2

JPoint

Joker<?>



SafeCode



**GIGA
CONF**

CrossConf

\$ whoami?



Андрей Кулешов



Стажка



Joker<?>



SafeCode



\$ whoami?



Андрей Кулешов

<https://github.com/orchestr7>



Deutsche Bank



HUAWEI



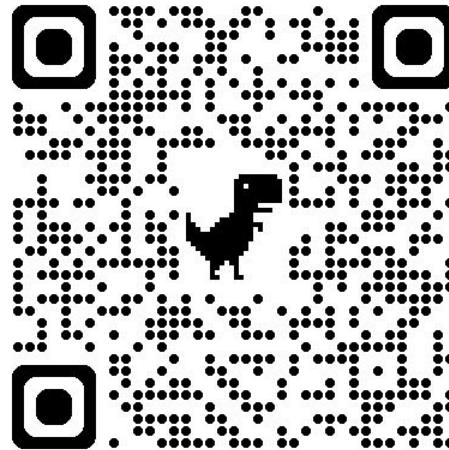
Стажка



Joker<?>



SafeCode



[kotlin-mpp-cli](#) Public template

Kotlin ⭐ 7 MIT License Updated on Jul 15

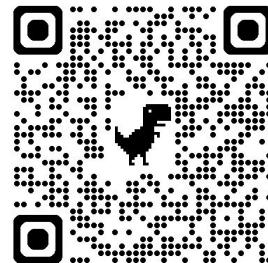
01

Введение

Мотивация доклада

Заранее предупреждаю

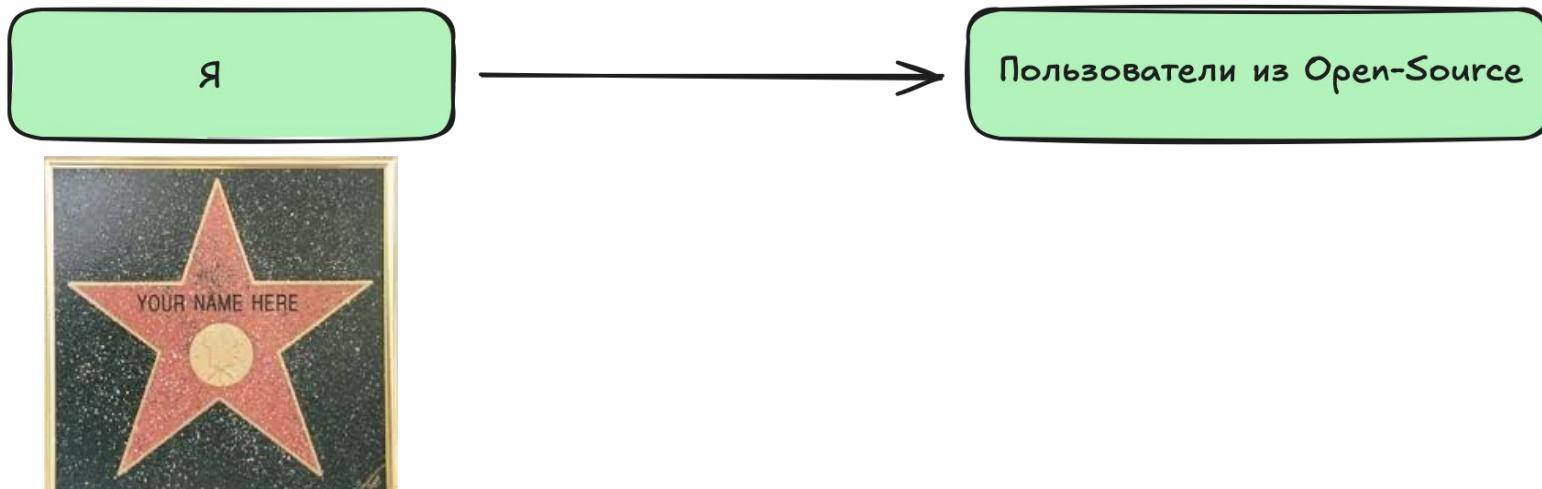




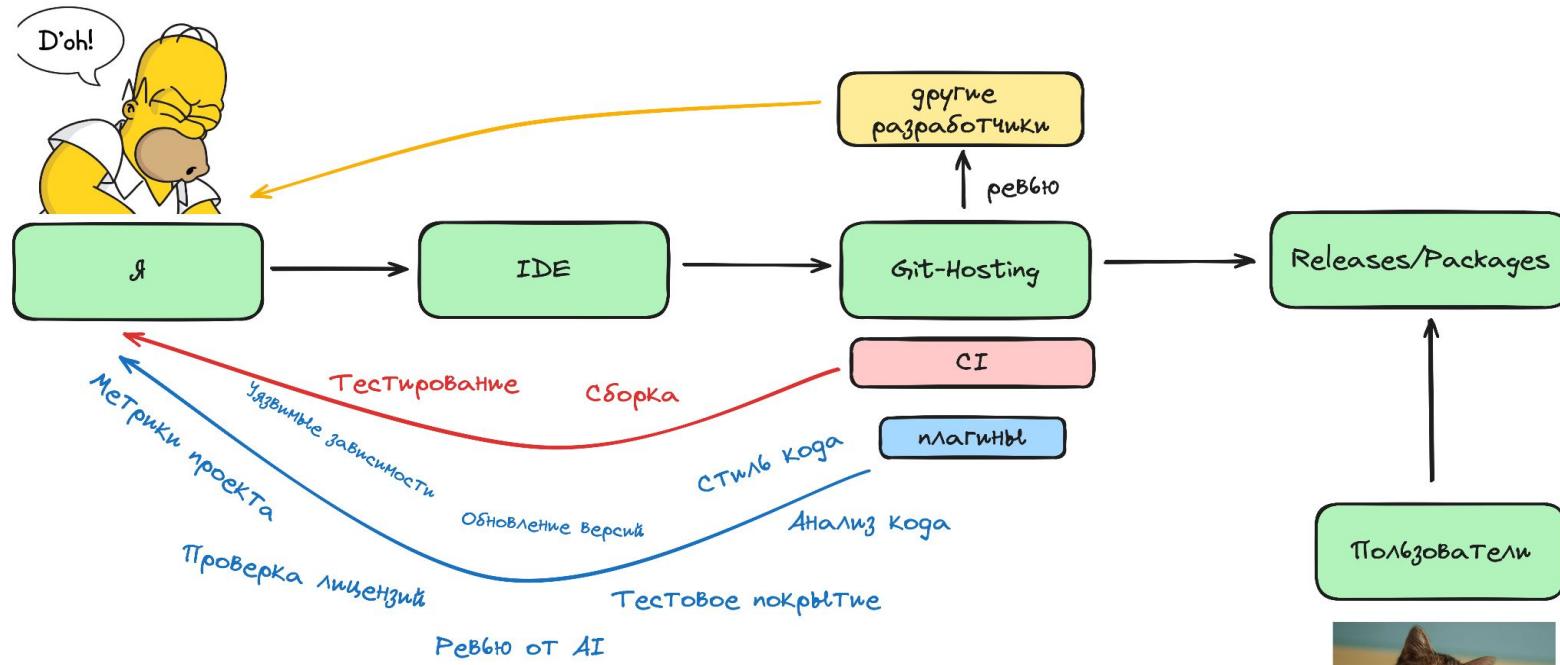
О чём сегодня поговорим?



О чём сегодня поговорим?



О чём сегодня поговорим?



Мотивация доклада



Поговорить про экосистемы

Посмотрим на потребности
разработчиков



Мотивация доклада



Поговорить про экосистемы

Посмотрим на потребности
разработчиков



Обзор инструментов

Обзор золотого стандарта для
Java/Kotlin разработчика



Мотивация доклада



Поговорить про экосистемы

Посмотрим на потребности
разработчиков



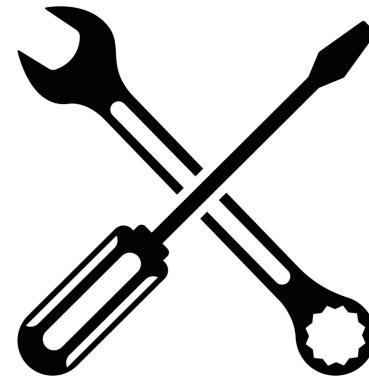
Обзор инструментов

Обзор золотого стандарта для
Java/Kotlin разработчика



Что же нужно?

Как сделать хороший **открытый**
проект, чтобы не было стыдно



Мотивация доклада



Поговорить про экосистемы

Посмотрим на потребности разработчиков



Обзор инструментов

Обзор золотого стандарта для Java/Kotlin разработчика



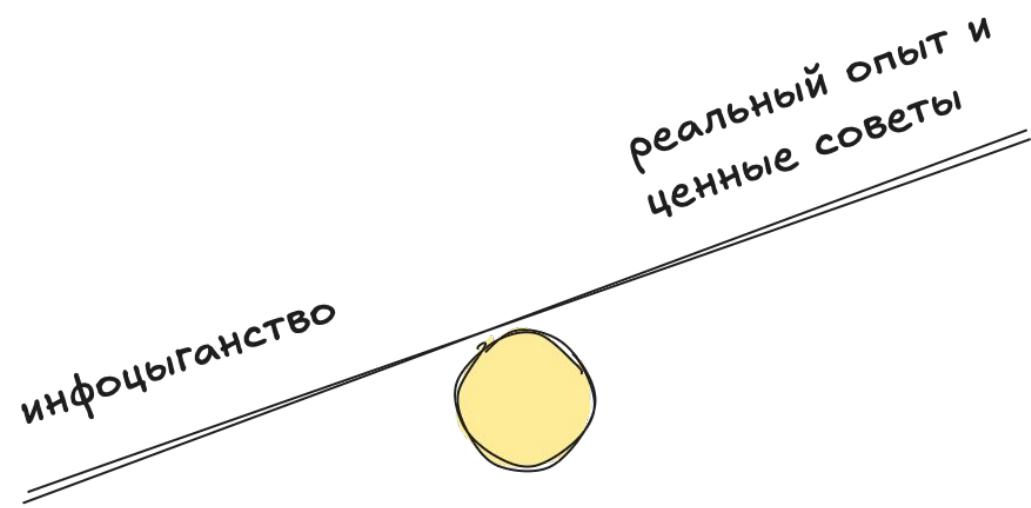
Что же нужно?

Как сделать хороший **открытый** ←
проект, чтобы не было стыдно

На самом деле open-source
специфика небольшая

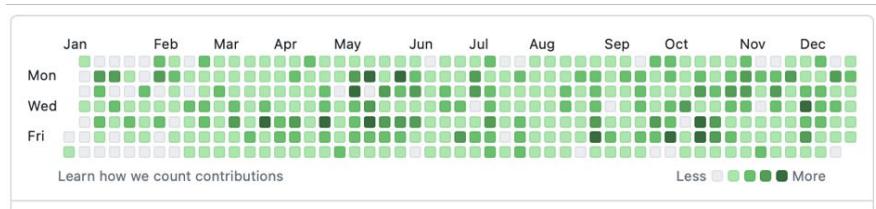


Наш план на сегодня



Почему я **могу** инфоцыганиТЬ на эту тему?

Пара моих
последних лет



[saveourtool/diktat](#) Public

Strict coding standard for Kotlin and a custom set of rules for detecting code smells, code style issues and bugs

Kotlin 521 39

[ktomi](#) Public

Kotlin Multiplatform parser and compile-time serializer/deserializer for TOML format (Native, JS, JVM) based on KxS

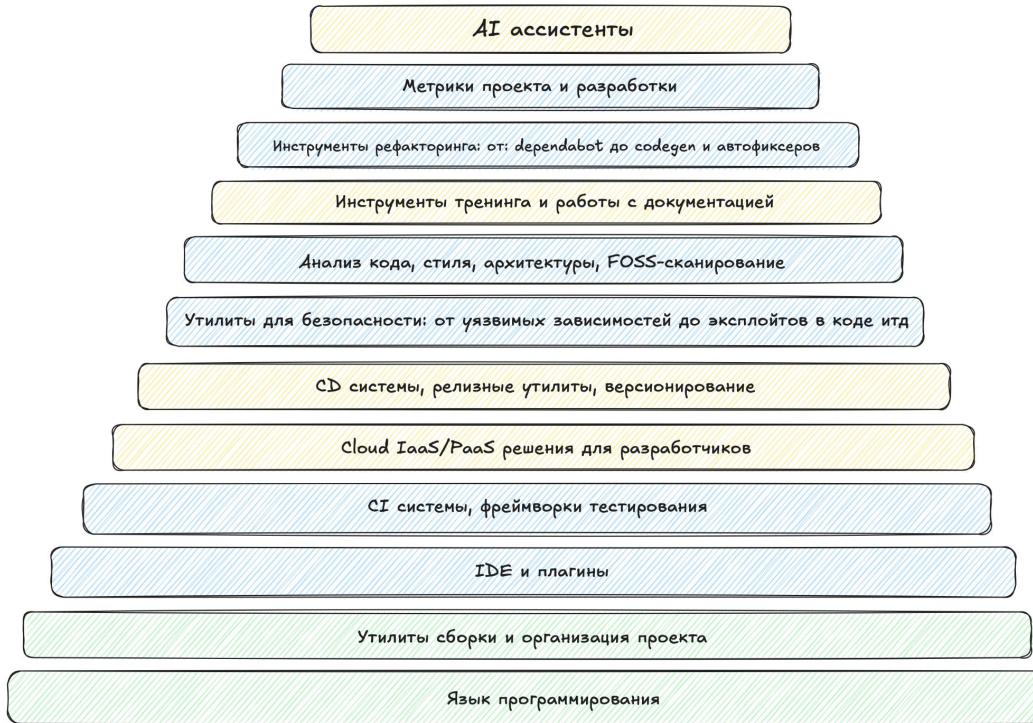
Kotlin 442 23

02

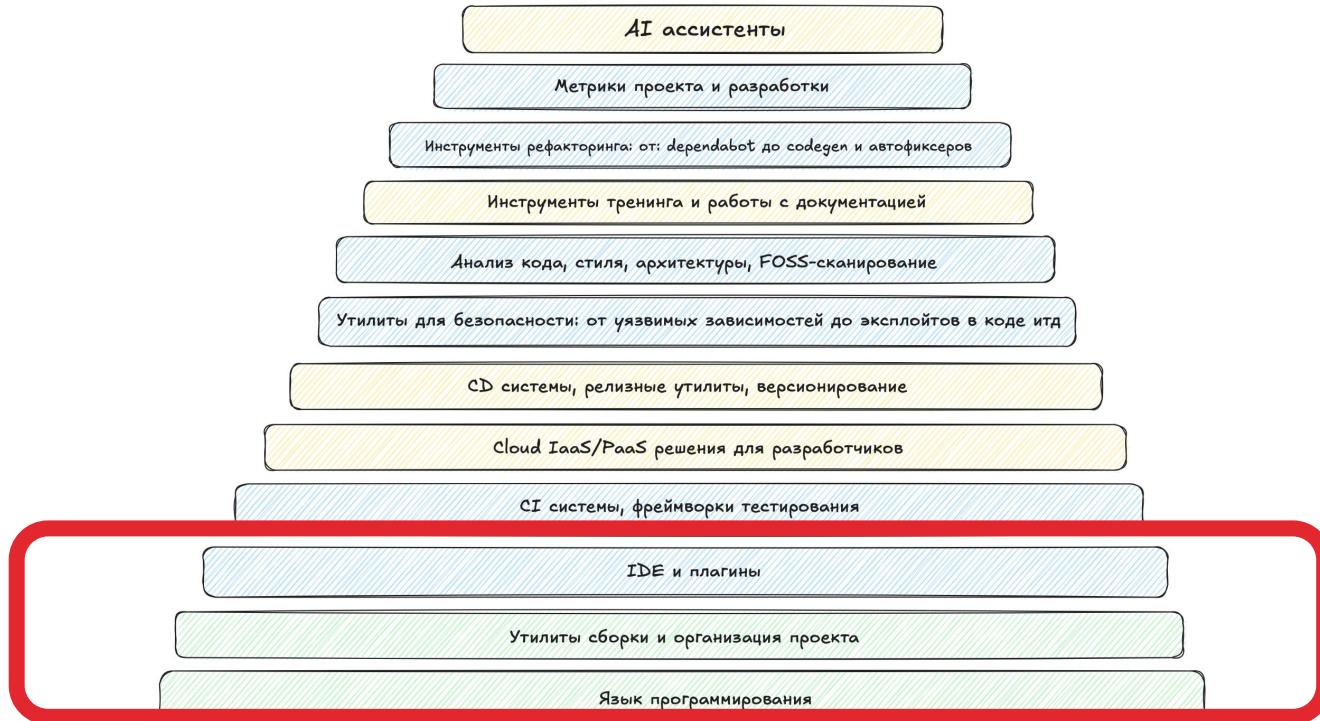
Экосистемы

Кто закрывают наши потребности

Потребности



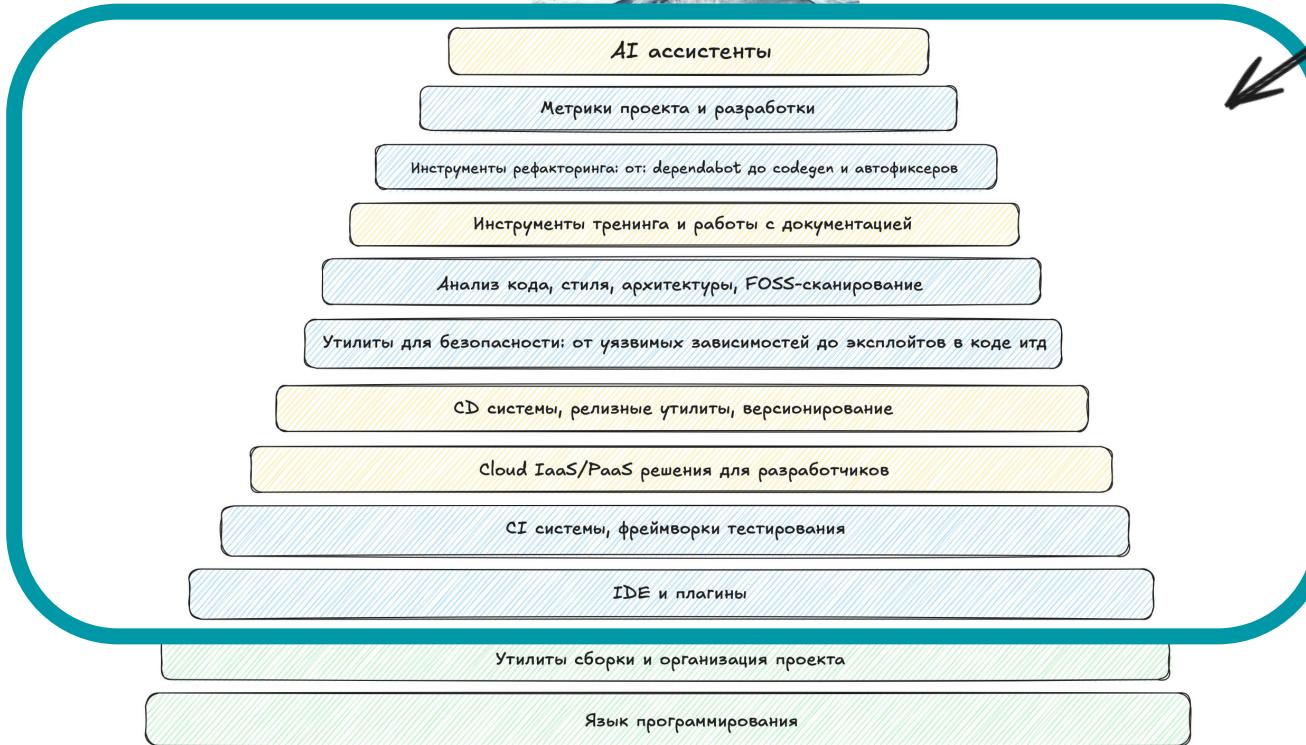
Потребности



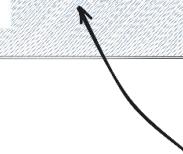
Потребности



Экосистема



Экосистемы



Знакомое всем

Экосистемы



Знакомое всем



Суверенная специфика

Github - лидер экосистем

На острие исследований



<https://githubnext.com>

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.

Github Next: на острие хайпа

Copilot Workspace
April 29, 2024
RESEARCH PROTOTYPE

A Copilot-native dev environment, designed for everyday tasks.

Copilot Next Edit Suggestions
November 9, 2023
RESEARCH PROTOTYPE

Can we improve Copilot code completion by predicting the next logical change, even if it is in your project?

Copilot for Docs
March 22, 2023
PRODUCT

How would it feel to have an expert on your team at all times? We're exploring ways to make Copilot's documentation suggestions more relevant and explainable.

Copilot for Pull Requests
March 22, 2023
PRODUCT

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.

Copilot Voice
March 22, 2023
COMPLETED

Write code without thinking. Difficulty typing? Use voice input. Even without spelling things out, Copilot can understand what you mean.

GitHub Copilot for *Your* Codebase
October 13, 2022
COMPLETED

We want to let Copilot see the code in your entire repo to make suggestions even better.

GitHub Copilot Radar
October 13, 2022
WIP

GitHub Copilot Radar is a code navigation tool that shows developers the most relevant line to their position in the code. It's jump-to-definition on (neural) steroids.



Github Next: что-то не про AI



Incremental CodeQL

October 11, 2022

[RESEARCH PROTOTYPE](#)

Faster feedback about security vulnerabilities on your PRs.

Realtime GitHub

November 9, 2023

[RESEARCH PROTOTYPE](#)

Multiplayer collaboration for your whole repo.

Collaborative Workspaces

October 14, 2022

[NAPKIN SKETCH](#)

As we increasingly work together remotely, how might we unify our workflows to enable remote collaboration for developers? GitHub Next explores what "working together" means, beyond multiple cursors and a shared code editor.

Stronger documentation without the sweat

READMEs don't have to be static. Create rich, interactive repositories that showcase your project.

p5.js

Welcome! 🎉🎉🎉🎉

p5.js is a JavaScript library for creative coding, with a focus on making coding accessible and inclusive for artists, designers, educators, beginners, and anyone else! p5.js is free and open-source because we believe software, and the tools to learn it, should be accessible to everyone.

[Details](#) [Versions](#) [RunKit](#) [Bundle Composition](#) p5@1.4.2

LATEST VERSION 1.5.0	DOWNLOADS 93,955,333	MAINTAINERS
DOWNLOADS 	RELEASES 	LINKS https://npmjs.com/package/p5 http://p5js.org/

Using the metaphor of a sketch, p5.js has a full set of drawing functionality using the HTML5 canvas element. You're not limited to the drawing canvas though. You can think of your whole browser page as your sketch, including HTML5 objects for text, input, video,

Show off live stats about the health of your project

Но это все ерунда,
ЭТИ ЭКОСИСТЕМЫ ПРИВЛЕКАЮТ ДРУГИМ

Сюда приходят за этим:



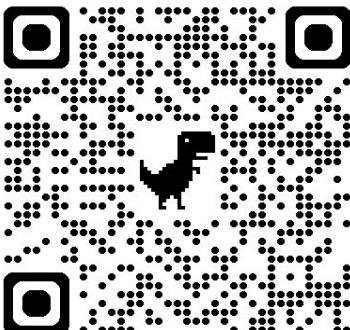


Playbook

- 📖 How to Use this Site
- ⭐ How to Get More Stars

Monthly Pick

- 2024 August (RAG frameworks)
- 2024 July (AI Generators)
- 2024 June (AI Searches)
- 2024 May (AI Web Scraper)
- 2024 Apr (Prompt Engineering)
- 2024 Mar (Non-AI)
- 2024 Feb (Most Underrated)
- 2024 Jan (Text2SQL)
- 2023 Dec (GPT Wrappers)
- 2023 Nov (TTS)



...add next repository

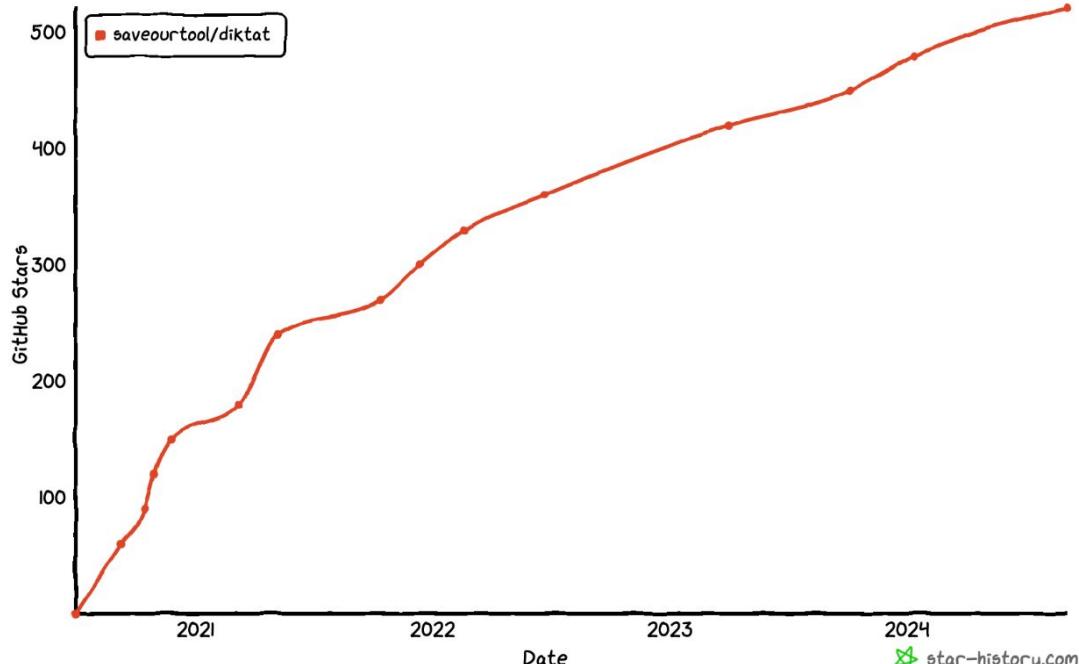
View star history

x saveourtool/diktat

Clear all

 Align timeline

Star History





TOP REPOSITORIES

- 1** [diktat](#)
Strict coding standard for Kotlin and a custom set of rules for detecting code smells, code style issue...

Kotlin

499 ⭐

- 2** [save-cli](#)
Universal test framework for cli tools [ma...

- 3** [save-cloud](#)
Cluster-based cloud mechanism for runni...

- 4** [diktat-demo](#)
Demo project to show how diKTat or KTLi...

- 5** [okio-extras](#)
A set of extensions to Okio, check out ht...

- 6** [benedikt](#)
A GitHub Action to check your code with c...

- 7** [sarif-utils](#)
The set of utilities, directed to work with ...

**akuleshov7**

Share in Share Facebook Share

Available for Hire

Stars **484**
Global Rank **57,529 (Top 3 %)**
Followers **109**
Following **18**
Registered **over 4 years ago**



TOP REPOSITORIES

- 1** [ktoml](#)
Kotlin Multiplatform parser and compile-time serializer/deserializer for TOML format (Native, JS, JV...

Kotlin

429 ⭐

- 2** [h-yapf](#)
Customized version of google/yapf with specific code style rules for Python. This project does analy...

Python

12 ⭐

- 3** [kotlin-mpp-cli](#)

Kotlin

6 ⭐

- 4** [small-interviews](#)
Samples and questions for interview

Java

5 ⭐

- 5** [diktat-examples](#)
Several examples of usage for diKTat project: <https://github.com/cqfn/diKTat>

Kotlin

4 ⭐

- 6** [my-conference-presentations](#)
My presentations for conferences and meetups

3 ⭐

- 7** [kotlinx-serialization-map](#)
Serialization mechanism from map to a serializable class

Kotlin

3 ⭐

GitHub Stars

Go above and beyond

Recognize and lift up the people who inspire and educate your communities with the GitHub Stars program.

Featured Stars

Meet the shining individuals from the world's largest open source community.

[View all](#)

Barbara Forbes
Ba4bes



Eddie Jaoude
[eddiejaoude](#)



Julio Arruda
[julioarruda](#)



Dries Vints



Gina Häußge



Emanuele
Portolani

03

Потребности: базовые

Базовые потребности **джавистов** и open-source

Пропустим выбор языка, IDE и плагинов

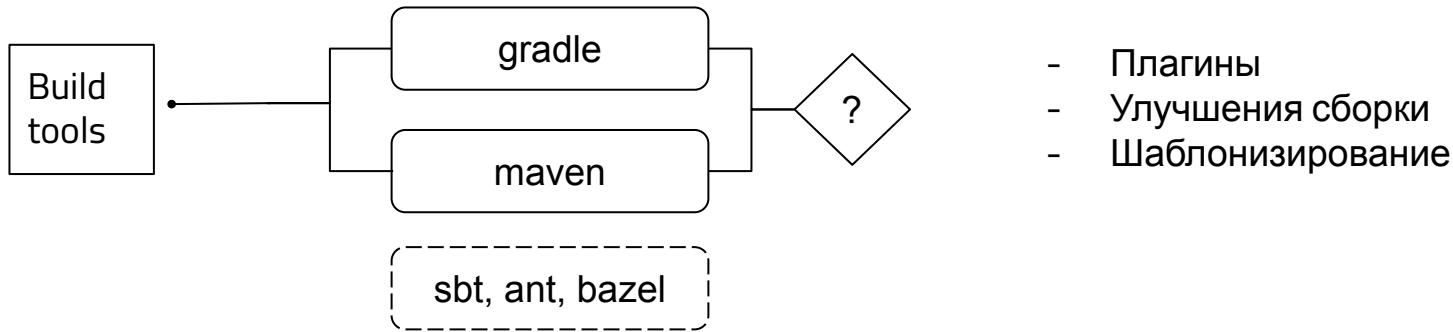


Сборка и организация проекта

Утилиты сборки и организация проекта

Язык программирования

Сборка и организация проекта



- Плагины
- Улучшения сборки
- Шаблонизирование

Сборка и организация проекта

```
> gradle build --scan
```

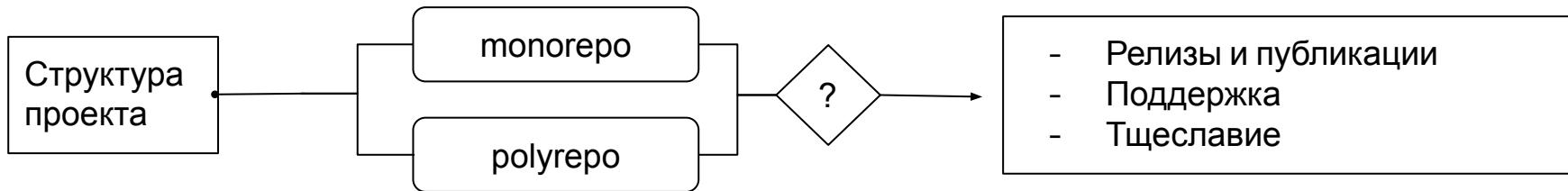
A large green square containing a white checkmark icon, centered on the slide.

```
> mvn clean install
```

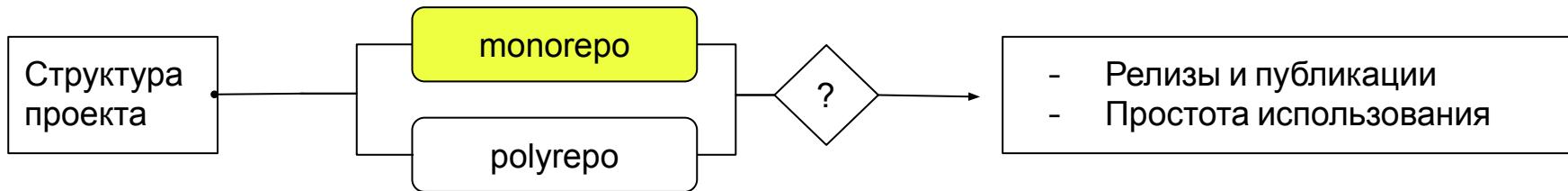
Рекомендация из опыта:

- Open-source требует **много** мелких кастомизаций
- От версионирования и релизов до Sarif отчетов

Сборка и организация проекта



Сборка и организация проекта



Рекомендация из опыта:

- Скорее всего вы будете в одиночестве
- Фокус внимания на одном репо: звезды, readme, итд.

Жиза из реального опыта

The screenshot shows a GitHub pull request page for the repository `artipie / artipie`. The pull request is titled `feat: move adapters into artipie #1322`. It has been merged by `ChGen` on Nov 2, 2023, from the branch `olenagerasimova:adapters` into the `artipie:master` branch. The pull request has 26 commits, 5 checks, and 2,151 files changed.

Files changed (2,151) and **+124,654 -792** (green bars) are highlighted with red boxes.

Comment by olenagerasimova:

Moved adapters into this repository and made maven multi module project. Artipie-main module is not an adapter, it's this initial repo.
All the modules have root-pom as a parent, root-pom contains most of the common dependencies, including `asto` and `http`.
Artipie-main depends on all the adapters in `compile` scope.
Updated and added scripts for releases:

- when tag starting with `v` is pushed, artipie docker image is released
- when tag has format `[adapter-name] _ [version]` is pushed, adapter is released in maven-central.
Example: `conda-adapter_v1.5.0`

Reviewers: dgarus (checked), ChGen (unchecked)

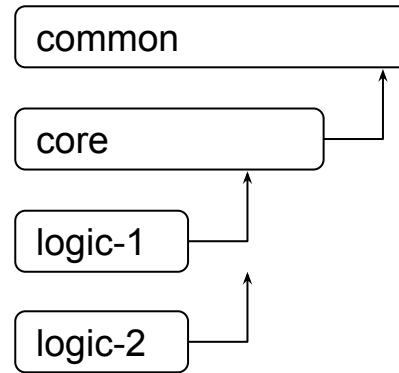
Assignees: No one assigned

Labels: None yet

Projects: None yet

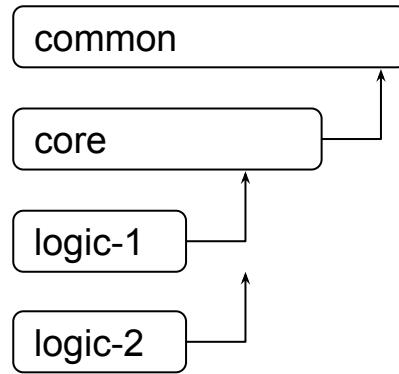
“Монорепа”

```
include("common")
include("core")
include("logic-1")
include("logic-2")
```



“Монорепа”

```
include("common")
include("core")
include("logic-1")
include("logic-2")
include("frontend")
include("native")
```

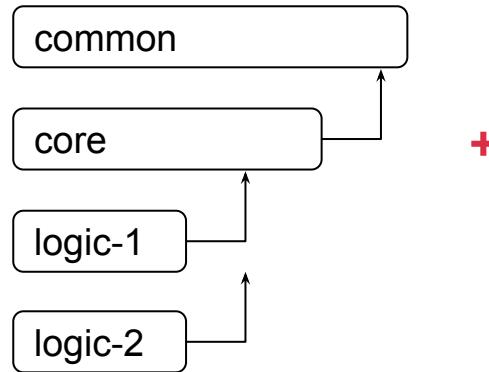


***Kotlin MPP** даже НЕ поддерживает Maven

“Монорепа”

- `libs.versions.toml`

```
include("common")
include("core")
include("logic-1")
include("logic-2")
include("frontend")
include("native")
```

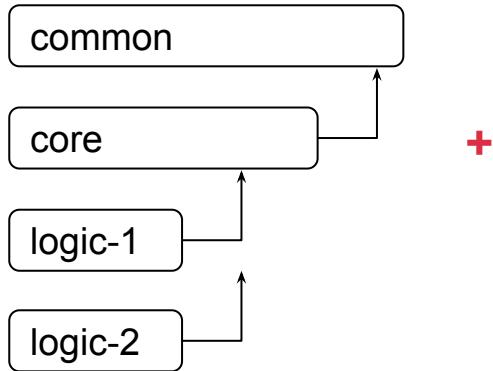


***Kotlin MPP** даже НЕ поддерживает Maven

```
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"
43
44 [plugins]
45 kotlin-jvm = { id = "org.jetbrains.kotlin.jvm", version.ref = "kotlin" }
46 kotlin-js = { id = "org.jetbrains.kotlin.js", version.ref = "kotlin" }
47 kotlin-multiplatform = { id = "org.jetbrains.kotlin.multiplatform", version.ref = "kotlin" }
48 kotlin-plugin-serialization = { id = "org.jetbrains.kotlin.plugin.serialization", version.ref = "kotlin" }
49 kotlin-plugin-jpa = { id = "org.jetbrains.kotlin.plugin.jpa", version.ref = "kotlin" }
50 kotlin-plugin-allopen = { id = "org.jetbrains.kotlin.plugin.allopen", version.ref = "kotlin" }
51 liquibase-gradle = { id = "org.liquibase.gradle", version = "2.1.1" }
52 talaiot-base = { id = "io.github.cdsap.talaiot.plugin.base", version = "1.5.3" }
53 detekt = { id = "io.gitlab.arturbosch.detekt", version.ref = "detekt" }
54 spotless = { id = "com.diffplug.gradle.spotless", version.ref = "spotless" }
55 download = { id = "de.undercouch.download", version.ref = "download" }
56
57 [libraries]
58 save-common = { module = "com.saveourtool.save:save-common", version.ref = "save-core" }
59 save-common-jvm = { module = "com.saveourtool.save:save-common-jvm", version.ref = "save-core" }
60 save-core = { module = "com.saveourtool.save:save-core", version.ref = "save-core" }
61 save-core-jvm = { module = "com.saveourtool.save:save-core-jvm", version.ref = "save-core" }
62 save-plugins-fix = { module = "com.saveourtool.save:fix-plugin", version.ref = "save-core" }
63 save-plugins-fix-jvm = { module = "com.saveourtool.save:fix-plugin-jvm", version.ref = "save-core" }
64 save-plugins-warn-jvm = { module = "com.saveourtool.save:warn-plugin-jvm", version.ref = "save-core" }
65 save-plugins-fixAndWarn-jvm = { module = "com.saveourtool.save:fix-and-warn-plugin-jvm", version.ref = "save-core" }
```

“Монорепа”

```
include("common")
include("core")
include("logic-1")
include("logic-2")
include("frontend")
include("native")
```

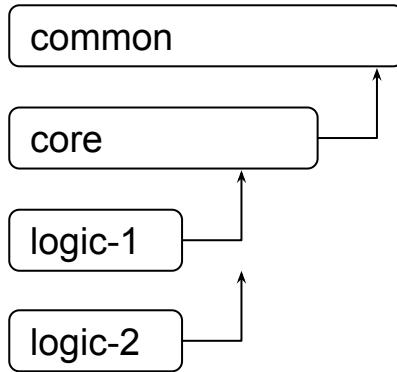


- `libs.versions.toml`
- `'gradle/plugins'`
- `buildSrc/`

***Kotlin MPP** даже НЕ поддерживает Maven

“Монорепа”

```
include("common")
include("core")
include("logic-1")
include("logic-2")
include("frontend")
include("native")
```



***Kotlin MPP** даже НЕ поддерживает Maven

- `libs.versions.toml`
- `'gradle/plugins'`
- `buildSrc/`

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

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

```
class MyCustomTask : DefaultTask() {
    @TaskAction
    fun calculateSum() {
        ...
    }
}
```

```
tasks.register<MyCustomTask>("myCustomTask")
```

Ну и конечно папка с тестами

- Для юнит-тестов берем что-то вроде Junit, Kotest или обертку **kotlin.test** и пишем
- Но, дев тулы эволюционируют...

```
dependencies {  
    testImplementation(kotlin("test"))  
}  
  
tasks.test {  
    useJUnitPlatform()  
}
```

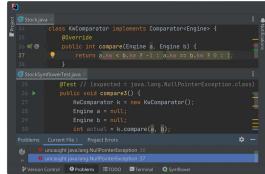
Поэтому появились авто-генераторы тестов

symflower.com

Write and maintain test code with ease

Save time and improve code quality with Symflower's IDE plugin for creating unit test templates, generating and maintaining full JUnit test suites, and test-backed code diagnostics.

Symflower works with JUnit 4 and JUnit 5 for Java, Spring, and Spring Boot applications.



Try for free

diffblue.com

Accelerate development with AI unit test generation

Diffblue Cover is the only autonomous AI-powered Java unit test generation solution that generates reliable unit regression tests at scale — locally and in CI.

Book a demo

Try now

Develop unit tests using GitHub Copilot tools

1 hr • Module • 8 Units



Feedback

Intermediate Developer GitHub

This module explores using GitHub Copilot and GitHub Copilot Chat to create unit tests. Exercises provide practical experience creating unit test projects and running unit tests in Visual Studio Code.

Learning objectives

By the end of this module, you're able to:

- Create unit tests using the GitHub Copilot and GitHub Copilot Chat extensions for Visual Studio Code.
- Create unit tests that target edge cases and specific conditions using the GitHub Copilot and GitHub Copilot Chat extensions for Visual Studio Code.
- Use Visual Studio Code, the .NET SDK, and the C# Dev Kit extension to create a test project and verify that your unit tests build and run successfully.

Start >

Add



UPCOMING WEBINAR

Introduction to Workspaces in IntelliJ IDEA Thursday, September 12, 2024, 15:00-16:00 UTC →

Generate tests with AI

Last modified: 09 August 2024

This functionality relies on the AI Assistant plugin that requires an additional license.

For more information about licensing and enabling AI Assistant, refer to JetBrains AI Service licensing and Enable AI Assistant plugin.

With AI Assistant, you can generate unit tests for code segments. AI Assistant analyzes both your code and its documentation to recommend tests that will provide insights into your code's behavior.

utbot.org

Спикеры



Денис Фокин
Huawei



Егор Куликов
Huawei

ДОКЛАД Testing Tooling Spring 14.10 / 12:00 – 12:45 (UTC+3)

Генерация тестов для Spring: из чего же, из чего же сделаны тесты



Презентация pdf



Как правило, чем проще написать тест, тем сложнее фреймворк для его написания.

Денис и Егор взяли UnitTestBot – инструмент для автоматической генерации тестов – и познакомили его с миром Spring-приложений.

Спикеры расскажут о путях, который прошел их инструмент: как познакомили его с юнит-тестами, а потом с интеграционными тестами. Теперь UnitTestBot знает о Spring-аннотациях, контекстах, постпроцессорах, тестовых конфигурациях.



Заведение issues

Авто:

- Из тестов
- Из ToDo
- По расписанию



GitHub Action

TODO to Issue

v4.13.3

Latest version

TODO to Issue Action

This action will convert newly committed TODO comments to GitHub issues on push.

Optionally, issues can also be closed when the TODOs are removed in a future commit.

Action supports:

- Multiple, customizable comments identifiers (FIXME, etc.)
- Configurable auto-labeling,
- Assignees,
- Milestones,
- Projects (classic).

`todo-to-issue` works with almost any programming language.

<https://github.com/alstr/todo-to-issue-action>



Заведение issues

Авто:

- Из тестов
- Из ToDo
- По расписанию



TODO to Issue Action

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<https://github.com/alstr/todo-to-issue-action>



Мануально:



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](#)

Заведение issues

Авто:

- Из тестов
- Из ToDo
- По расписанию



GitHub Action

TODO to Issue

v4.13.3

Latest version

TODO to Issue Action

This action will convert newly committed TODO comments to GitHub issues on push.

Optionally, issues can also be closed when the TODOs are removed in a future commit.

Action supports:

- Multiple, customizable comments identifiers (FIXME, etc.)
- Configurable auto-labeling,
- Assignees,
- Milestones,
- Projects (classic).

`todo-to-issue` works with almost any programming language.

<https://github.com/alstr/todo-to-issue-action>



Мануально:



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

Edit templates

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

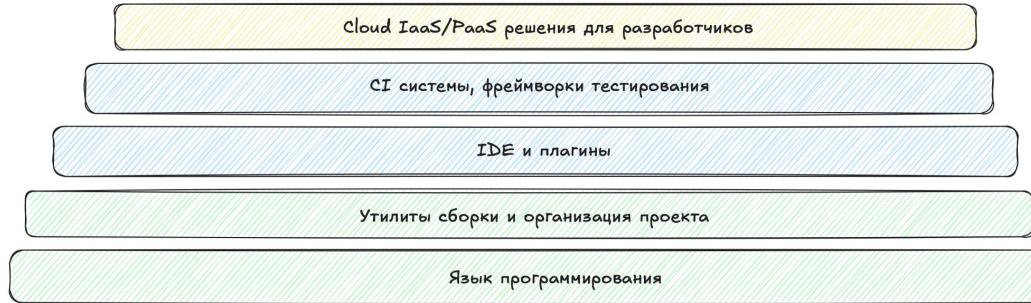
+ Темплейты на issue и PR!

04

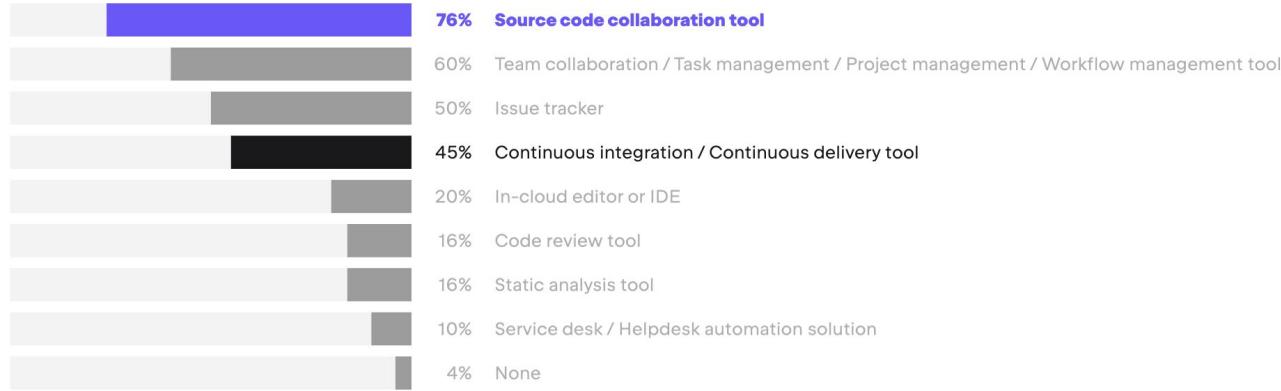
Потребности: CI

CI и сервисы для разработки в open-source

CI системы



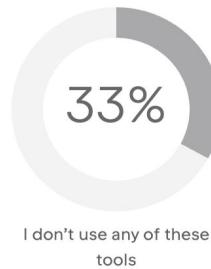
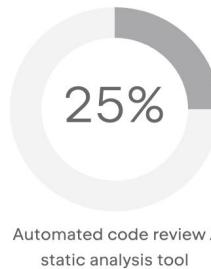
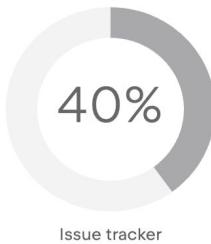
CI системы



JB: The State of Developer Ecosystem 2023 Survey

CI системы

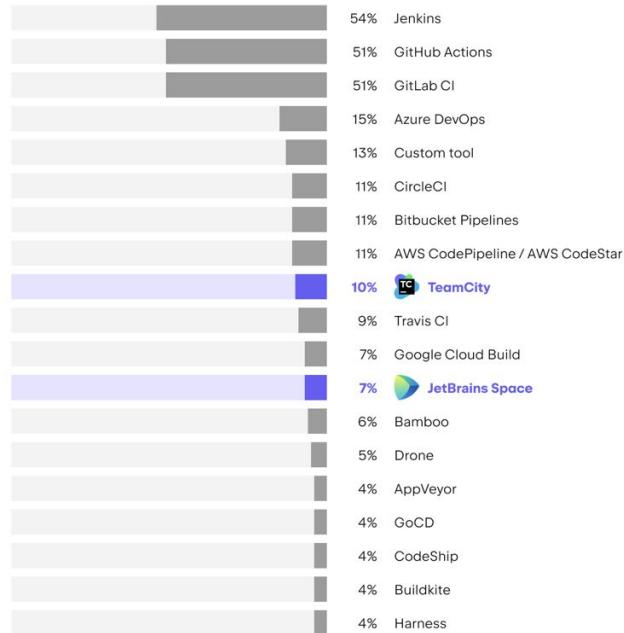
Do you use any of the following types of tools in the cloud?



JB: The State of Developer Ecosystem 2023 Survey

CI системы

Which Continuous Integration (CI) systems do you regularly use?



JB: The State of Developer Ecosystem 2023 Survey

CI системы

Базовый минимум



Github Actions

The screenshot shows the GitHub Actions interface for the repository `akuleshov7 / ktoml`. The main navigation bar includes links for Code, Issues (32), Pull requests (5), Discussions, Actions (selected), Projects, Wiki, Security, Insights, and Settings. The search bar at the top right contains the placeholder "Type to search".

The left sidebar features a "Actions" section with a "New workflow" button and a "Build and test" section containing several workflow configurations:

- Create release to Maven Central
- pages-build-deployment
- Run detekt
- Run diKTat
- Update yarn.lock generated by Kotlin...

The main content area displays the "Build and test" workflow, specifically the `build_and_test.yml` configuration. It shows 254 workflow runs. The table lists the following runs:

Event	Status	Branch	Actor
Update dependency io.github.gradle-nexus:publish-plugin to v2	Success	renovate/io.github.gradle...	2 days ago 15m 45s
Update all non-major dependencies (except core Kotlin)	Failure	renovate/all-minor-patch	2 days ago 1m 37s
Update Kotlin core dependencies to v1.9.24 (#268)	Success	main	2 days ago 21m 53s
Update all non-major dependencies (except core Kotlin)	Failure	renovate/all-minor-patch	2 weeks ago 1m 40s
Update Kotlin core dependencies to v1.9.24	Success	renovate/core-kotlin	2 weeks ago 19m 19s

CI системы

```
name: Build and test
on:
  pull_request:
  push:
    branches:
      - 'main'
```



GitHub Actions

CI системы

```
name: Build and test
on:
  pull_request:
  push:
    branches:
      - 'main'
jobs:
  build:
    runs-on: ubuntu-latest
```



GitHub Actions

CI системы

```
name: Build and test
on:
  pull_request:
  push:
    branches:
      - 'main'
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout sources
        uses: actions/checkout@v4
```



GitHub Actions

CI системы

```
name: Build and test
on:
  pull_request:
  push:
    branches:
      - 'main'
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout sources
        uses: actions/checkout@v4
      - name: Setup Java
        uses: actions/setup-java@v4
        with:
          distribution: 'temurin'
          java-version: 21
```



GitHub Actions

CI системы

```
name: Build and test
on:
  pull_request:
  push:
    branches:
      - 'main'
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout sources
        uses: actions/checkout@v4
      - name: Setup Java
        uses: actions/setup-java@v4
        with:
          distribution: 'temurin'
          java-version: 21
      - name: Setup Gradle
        uses: gradle/actions/setup-gradle@v4
      - name: Build with Gradle
        run: ./gradlew build
```



GitHub Actions

CI системы

```
name: Build and test
on:
  pull_request:
  push:
    branches:
      - 'main'
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - name: Checkout sources
        uses: actions/checkout@v4
      - name: Setup Java
        uses: actions/setup-java@v4
        with:
          distribution: 'temurin'
          java-version: 21
      - name: Setup Gradle
        uses: gradle/actions/setup-gradle@v4
      - name: Build with Gradle
        run: ./gradlew build
```



GitHub Actions



uses: gradle/actions/wrapper-validation@v4

**И Action'ы - это пункт №2, почему все
так любят Github**

Github CI плагины: Actions

 GitHub Action
Benedi.kt
v2.0.0 [Latest version](#)

A GitHub Action to check your code with *diKTat*

Table of Contents

- [Features](#)
- [Usage](#)
- [Configuration](#)
 - [config : custom configuration](#)
 - [reporter : requesting reporter](#)
 - [input-paths : custom input paths](#)
 - [java-distribution : Java distribution](#)
 - [fail-on-error : success or failure](#)
 - [debug : enabling debug logging](#)
- [Outputs](#)

INSTALLATION
Copy and paste the following snippet into your .yml file.

```
- name: Benedi.kt
  uses: saveourtool/benedikt@v2.0.0
```

[Learn more about this action in saveourtool/benedikt](#)

License MIT
release v2.0.0
Ubuntu
macOS
Windows

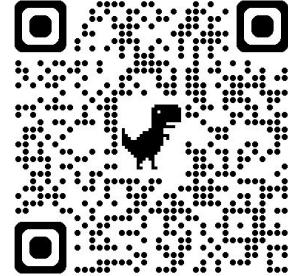
An always updated version of this document is available [here](#) as a PDF e-book.

Use latest version ▾

Stars [Star 10](#) ▾

[Open issues](#) 4
[Pull requests](#) 2
[Report abuse](#)

Benedi.kt is not certified by GitHub. It is provided by a third-party and is governed by separate terms of service, privacy policy, and support documentation.



Github CI плагины: Actions

Marketplace / Actions / OpenCommit — improve commits with AI 🤖

GitHub Action
OpenCommit — improve commits with AI 🤖

Use latest version

Marketplace / Actions / TODO to Issue

GitHub Action
TODO to Issue

v4.13 Latest version

TODO to Issue Action

This action will convert newly committed TODO items into GitHub issues. Optionally, issues can also be closed when the TODO is resolved.

Action supports:

- Multiple, customizable comments identifiers
- Configurable auto-labeling,
- Assignees,
- Milestones,
- Projects (classic).

todo-to-issue works with almost any programming language.

Usage

Simply add a comment starting with TODO (or any other comment identifiers configured), followed by a colon and/or space.

Here's an example for Python creating an issue named after the TODO description:

```
def hello_world():
    # TODO Come up with a more imaginative greeting
```

Marketplace / Actions / Metrics embed

GitHub Action
Metrics embed

v3.34 Latest version

Follow the bird 🐦 sukharev_

Auto-generate meaningful commits in a second with AI 🤖

Killing lame commits with AI 🤖

npm v3.0.16

Winner of GitHub 2023 hackathon 🏆

BEFORE

the fixes 🐛 di-sukharev committed 3 days ago

amends 🐞 di-sukharev committed 3 days ago

the fixes 🐛 di-sukharev committed 3 days ago

AFTER

fix(commit:to) add check for cancellation of git push confirmation

fix(chorebook:to) add validation for if-hook-exists-in-improve..

fix(chorebook:to) add validation for if-hook-exists-in-improve..

Links

- alstry/todo-to-issue
- Open issues
- Pull requests
- Report abuse

Generate metrics that can be embedded everywhere, including your GitHub profile readme! Supports users, organizations, and even repositories!

For user accounts

- Simon Lecog (joined GitHub 7 years ago)
- Followed by 1223 users
- Contributed to 22 repositories
- 30 Repositories
- 67 Releases
- 5 Packages
- 12 Milestones
- 8446 added, 382 removed

For organization accounts

- Github (joined GitHub 16 years ago)
- San Francisco, CA
- 255 members
- 493 Repositories
- 7 Sponsors
- 13977 Stargazers
- 1971 Forkers
- 146 Watchers
- 0 Spellers
- 26349 Stargazer
- 172845 Forkers
- 13542 Watchers

Customizable with 47 plugins and 335 options!

Isometric commit calendar Languages activity

In-depth analysis (clone and analyze repositories)

Full year calendar

20 Languages Most used languages

Contributions calendar

Metrics embed is not certified by GitHub. It is provided by a third-party and is governed by separate terms of service, privacy policy, and support documentation.



GitHub Action

generate-snake-game-from-github-contribution-grid

↳ v3.2.0

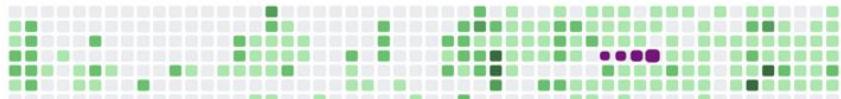
Latest version

Use latest version ▾

snk

action passing release v3.2.0 marketplace snake types TypeScript code style prettier

Generates a snake game from a github user contributions graph



Pull a github user's contribution graph. Make it a snake Game, generate a snake path where the cells get eaten in an orderly fashion.

Generate a [gif](#) or [svg](#) image.

Available as github action. It can automatically generate a new image each day. Which makes for great [github profile readme](#)

Stars

Star 3.8k ▾

Contributors



Categories

Utilities

Links

Platane/snk

Open issues 0

Pull requests 0

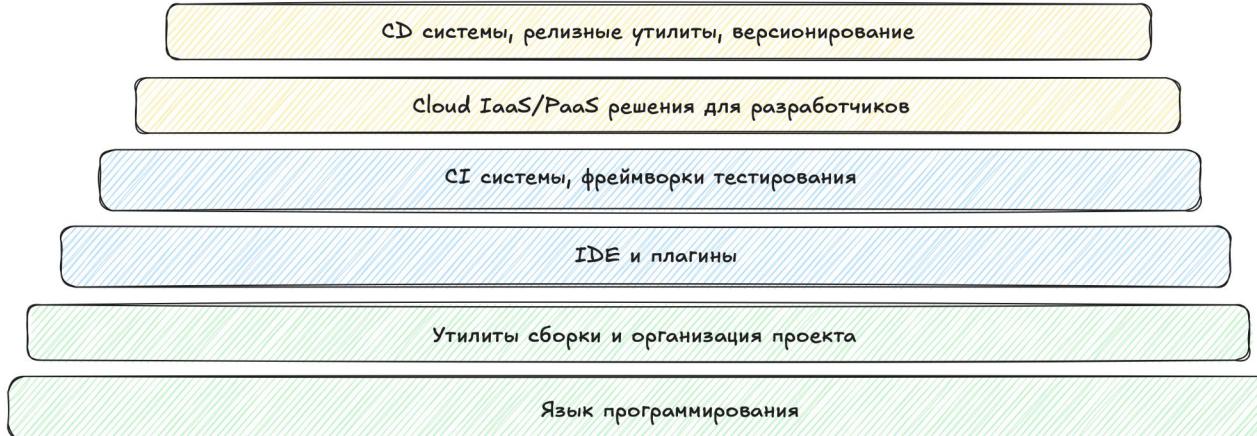
Report abuse

05

Потребности: CD, версионирование и релизы

Как намучиться с поставкой вашего кода миру

CD, версионирование и релизы



Версионирование

SemVer (1.1.1) - это золотой стандарт версионирования

Но если хочется угореть, то

Версионирование

SemVer (1.1.1) - это золотой стандарт версионирования

Но если хочется угореть, то

zer0ver

YES: 0.0.1, 0.1.0dev, 0.4.0, 0.4.1, 0.9.8n, [0.999999999](#), [0.0](#)

NO: 1.0, 1.0.0-rc1, 18.0, 2018.04.01

Но как это автоматизировать?

Версионирование: reckon

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



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

Версионирование: reckon

```
apply<ReckonPlugin>()

configure<ReckonExtension> {
    setDefaultInferredScope("patch")
    if (isSnapshot) {
        snapshots()
    } else {
        stages("alpha", "rc", "final")
    }
    setScopeCalc(calcScopeFromProp().or(calcScopeFromCommitMessages()))
    setStageCalc(calcStageFromProp())
}
```



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

Версионирование: reckon

Terminal Local × + ▾

```
> Configure project :  
git tree is not clean; Untracked files: [], uncommitted changes:  
Reckoned version: 0.4.0-alpha.0.464+20240904T213701Z
```

```
Macbook:ktoml akuleshov7$ ./gradlew clean -Preckon.stage=snapshot
```

```
> Configure project :ktoml-core  
Reckoned version: 0.5.3-SNAPSHOT
```



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

Версионирование: reckon

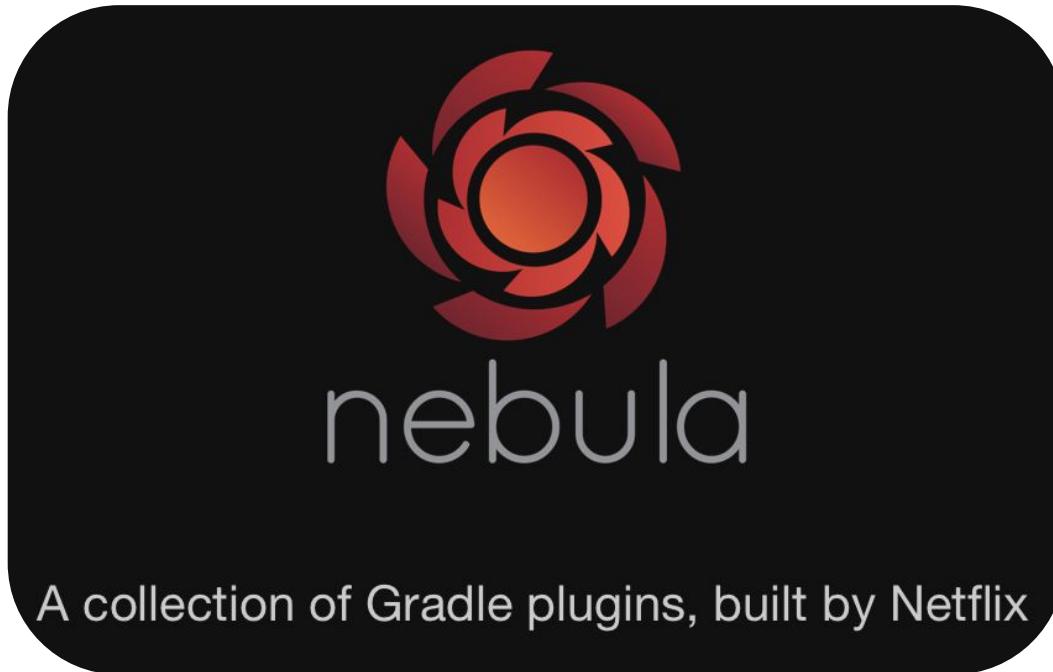
Stages

Type	Example
final	1.2.3
significant	1.3.0-rc.1
insignificant	1.3.0-rc.1.8+3bb 4161

Snapshots

Type	Example
final	1.2.3
snapshot	1.3.0-SNAPSHOT

Версионирование: мой просчет



Версионирование: мой просчет

The screenshot shows a GitHub repository page for the `nebula-release-plugin`. At the top, there are links for `README` and `Apache-2.0 license`. Below the title, the repository name is displayed in bold. A horizontal line follows, followed by a series of badge links: `nebula active`, `gradlePluginPortal v9.2.2`, `maven-central v19.0.10`, `Nebula Build passing`, and `license Apache-2.0`. A brief description states: "This plugin provides opinions and tasks for the release process provided by [gradle-git](#)".

Optional Configuration

If you want the release plugin to trigger or finalize a publishing task you will need to configure it:

```
tasks.release.dependsOn tasks.<publish task name>
```

-or-

```
tasks.release.finalizedBy tasks.<publish task name>
```

This plugin also detects the presence of the [nebula-bintray-plugin](#) and wires itself to depend on the task types used by `bintrayUpload` and `artifactoryUpload`.

Opinions

Project using this plugin will use [semantic versions](#) style strings. e.g. `major.minor.patch-<prerelease>+<metadata>`

All tasks default to bumping the minor version.

А теперь то, до чего не доходят многие разработчики: релиз библиотеки

Релиз в central

Выбор простой

Github Packages или Maven Central

Но везде нужен

'maven-publish' plugin

Легко выложить, но
неприятно
пользоваться

Очень, ОЧЕНЬ
больно, но приятно
пользователям



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:

- Add a TXT record to your DNS referencing this JIRA ticket: [OSSRH-67157](#) (Fastest)
- Setup a redirect to your Github page (if it does not already exist)
You can find more information here: <https://central.sonatype.org/publish/>



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/		
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...

[Attachments](#) Drop files to attach, or [browse](#).[Activity](#)[All](#) [Comments](#) [Work Log](#) [History](#) [Activity](#) [Time In Status](#) [Transitions](#)[Oldest first](#)

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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](#)

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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/>

Ну и не дай бог вы еще gradle плагин сделаете

Plugins Documentation ▾ Forums ↗

 Gradle

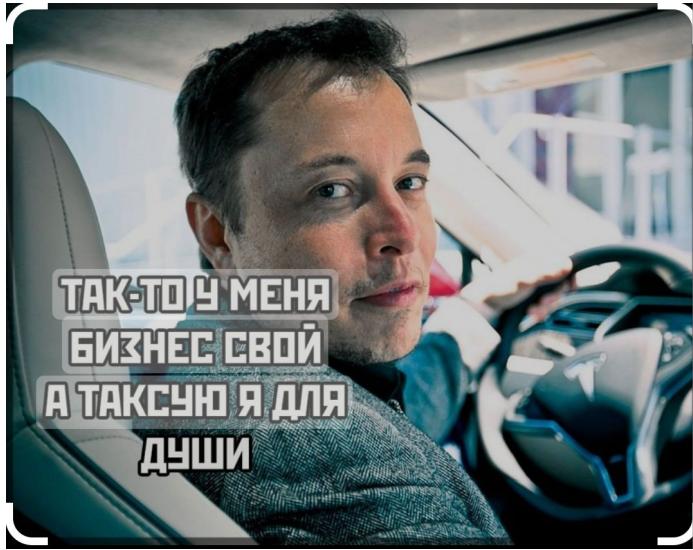
Search Gradle plugins

search by tag or keyword

Want to include your Gradle plugin here?

Plugin	Latest Version
co.com.bancolombia.cleanArchitecture Gradle plugin to create a clean application in Java that already works, It follows our best practices!	3.17.21 (04 September 2024)
#scaffold #cleanarchitecture #bancolombia #opensource	

Можно по-простому, но для себя, для души



[Readme](#)

[MIT license](#)

[Code of conduct](#)

[Activity](#)

[Custom properties](#)

[12 stars](#)

[5 watching](#)

[1 fork](#)

[Report repository](#)

Releases 5

[Release v1.1.3](#) Latest
on Feb 11

[+ 4 releases](#)

Packages 6

- [com.saveourtool.okio-extras-jvm](#)
- [com.saveourtool.okio-extras](#)
- [com.saveourtool.okio-extras-linuxx64](#)

[+ 3 packages](#)

И, если у вас образы - это артефакт

save-backend

Install from the command line [Learn more about packages](#)

```
$ docker pull ghcr.io/saveourtool/save-backend:0.4.0-alpha.0.460-8f62e13
```

Recent tagged image versions

0.4.0-alpha.0.460-8f62e13	↓ 2
Published 12 days ago · Digest	...
0.4.0-alpha.0.459-e101105	↓ 9
Published 23 days ago · Digest	...
0.4.0-alpha.0.458-7e126d4	↓ 13
Published about 1 month ago · Digest	...
0.4.0-alpha.0.457-7501e3e	↓ 33
Published 2 months ago · Digest	...
0.4.0-alpha.0.456-11bdef0	↓ 33
Published 2 months ago · Digest	...

[View and manage all versions](#)

Details

 [saveourtool](#)

 [save-cloud](#)

 [MIT License](#)

Last published **12 days ago**

Discussions **6** Issues **201**

Total downloads **222K** 

Collaborators **5**

 petertrr	Peter Trifanov
 nulls	Nariman Abdullin
 sanyavertolet	Alexander Frolov
 Cheshiriks	Vladislav Frolov
 renovate[bot]	

 [Start a discussion](#)

 [Open an issue](#)

**Ну и хорошо бы сделать еще пост-
релизные вещи**

[Releases](#) / v0.5.2

Release v0.5.2

[Latest](#)[Compare](#) ▾

github-actions released this Jun 16 v0.5.2 c7fb881

Main

- K2 and 1.7.0 serialization support
- a new target: linux arm64

What's Changed

- Fix Serialization in readme to use encodeToString instead of wrong decodeFromString by [@vlsi](#) in [#253](#)
- Update dependency gradle to v8.6 by [@renovate](#) in [#233](#)
- Adding new Kotlin DefaultHierarchyTemplate by [@orchestr7](#) in [#257](#)
- Enhancing publishing mechanism and adding snapshot releases by [@orchestr7](#) in [#258](#)
- Primitive Char should be encoded with a single quote by [@orchestr7](#) in [#261](#)
- Bump the github_actions group across 1 directory with 1 update by [@dependabot](#) in [#262](#)
- Update Kotlin core dependencies to v1.9.23 by [@renovate](#) in [#263](#)

[Full Changelog: v0.5.1...v0.5.2](#)

Contributors



vlsi, renovate, and 3 other contributors

Assets

2

[Releases / v0.5.2](#)

Release v0.5.2

[Latest](#)[Compare ▾](#)

github-actions released this Jun 16 v0.5.2 c7fb881

Main

- K2 and 1.7.0 serialization support
- a new target: linux arm64

[actions/create-release@v1](#)

What's Changed

- Fix Serialization in readme to use encodeToString instead of wrong decodeFromString by [@vlsi](#) in [#253](#)
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Full Changelog: [v0.5.1...v0.5.2](#)

Contributors



vlsi, renovate, and 3 other contributors

Assets

[2](#)

[Releases / v0.5.2](#)

Release v0.5.2

[Latest](#)[Compare ▾](#)

github-actions released this Jun 16 v0.5.2 c7fb881

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- K2 and 1.7.0 serialization support
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[actions/create-release@v1](#)

What's Changed

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Full Changelog: [v0.5.1...v0.5.2](#)

Contributors



vlsi, renovate, and 3 other contributors

[actions/upload-release-asset@v1](#)

Assets

2

[Summary](#)

Jobs

 [Build release](#)

Run details

 [Usage](#) [Workflow file](#)

Build release

succeeded 3 weeks ago in 13m 0s

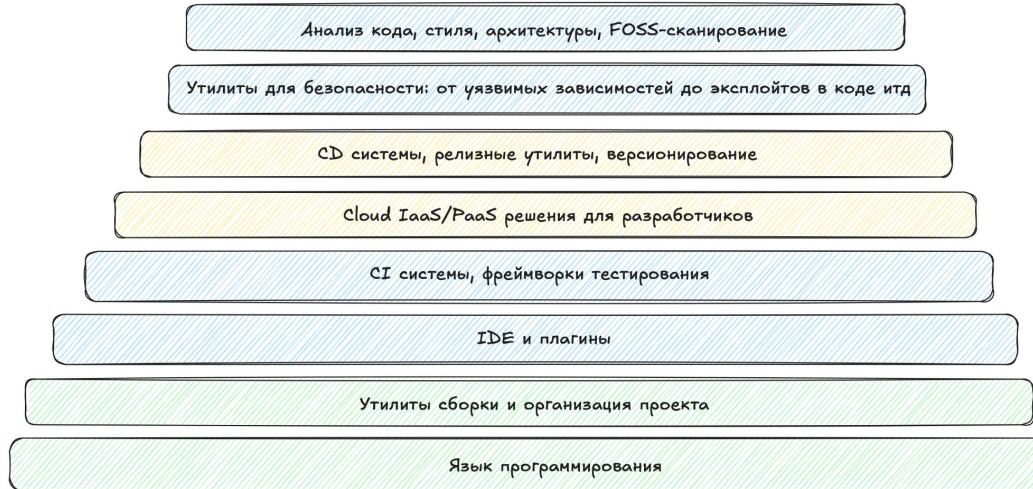
- > Set up job
- > Checkout
- > Set up JDK 11
- > Cache local Maven repository
- > Setup environment
- > Set version
- > Create settings.xml
- > Deploy artifacts
- > Build diktat.jar
- > Create Github Release
- > Upload assets to github releases
- > Update versions in pom.xml and documentation, update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

06

Анализ кодовой базы

Мотивация доклада

Анализ проекта



Лицензирование

<https://fossa.com>

The screenshot shows the FOSSA web interface for the `diktat` project. The top navigation bar includes links for Projects, Issues, Reports, Policies, Docs, Support, and a user account. A green badge indicates a "license scan passing". The main navigation tabs are SUMMARY, ISSUES (0), DEPENDENCIES (1), LICENSES (2), and REPORTS. The LICENSES tab is active, showing "2 Licenses Found": Apache License 2.0 and MIT License. Below this, a message states: "Browsing access is limited to a depth of 5. Upgrade to a paid plan to increase the access depth." On the right side, a box 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".

Стиль + функциональность

Стиль и анализ кода

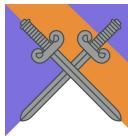
Kotlin



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

detekt

diktat



Java



*Kotlin Linters:
which should
I choose?

Стиль + функциональность

Стиль и анализ кода

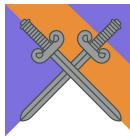
Kotlin



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

detekt

diktat

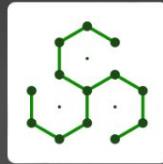


Java



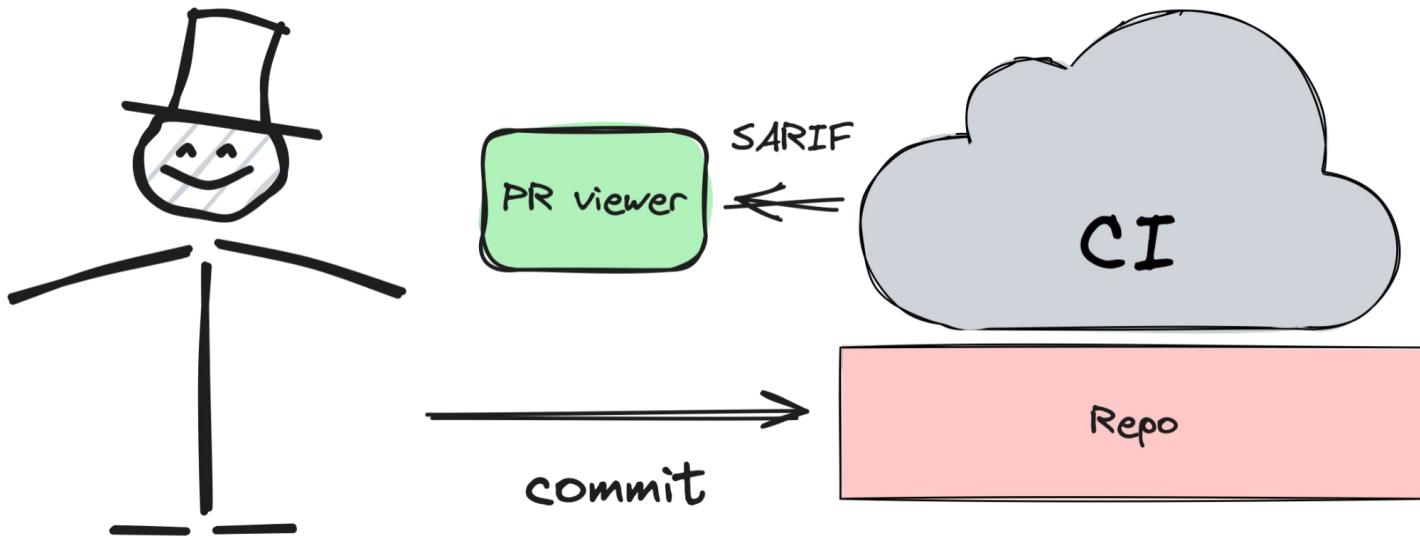
*Kotlin Linters:
which should
I choose?

+ IntelliJ Idea: ./idea.sh inspect



SARIF

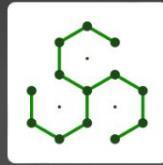
The Static Analysis Results Interchange Format (SARIF)
is an industry standard format for the output of static analysis tools.



```
- name: Copy SARIF reports into a single directory
  if: ${{ failure() }}
  run: |
    # ваша логика копирования репортов
- name: Upload SARIF report to Github
  uses: github/codeql-action/upload-sarif@v2
  if: ${{ failure() }}
  with:
    sarif_file: build/diktat-sarif-reports
- name: Upload SARIF artifacts
  uses: actions/upload-artifact@v3
  if: ${{ failure() }}
  with:
    name: sarif-reports
    path: "**/build/diktat-sarif-reports/"
    retention-days: 1
```

отдаёте в API GitHub





SARIF

The Static Analysis Results Interchange Format (SARIF)
is an industry standard format for the output of static analysis tools.

save-frontend/build.gradle.kts Fixed ⚡ Hide fixed

```
277 +     tasks.forEach {  
278 +         println(it.name)  
279 +     }  
280 + }
```

✖ Check failure

⌚ Code scanning / ktlint

[WRONG_INDENTATION] only spaces are allowed for indentation and each indentation should equal to 4 spaces (tabs are not allowed): no newline at the end of file build.gradle.kts ✖ Error

[WRONG_INDENTATION] only spaces are allowed for indentation and each indentation should equal to 4 spaces (tabs are not allowed): no newline at the end of file build.gradle.kts

Show more details

Dismiss alert ▾

Reply...

Зависимости и безопасность



Dependabot



Renovate

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

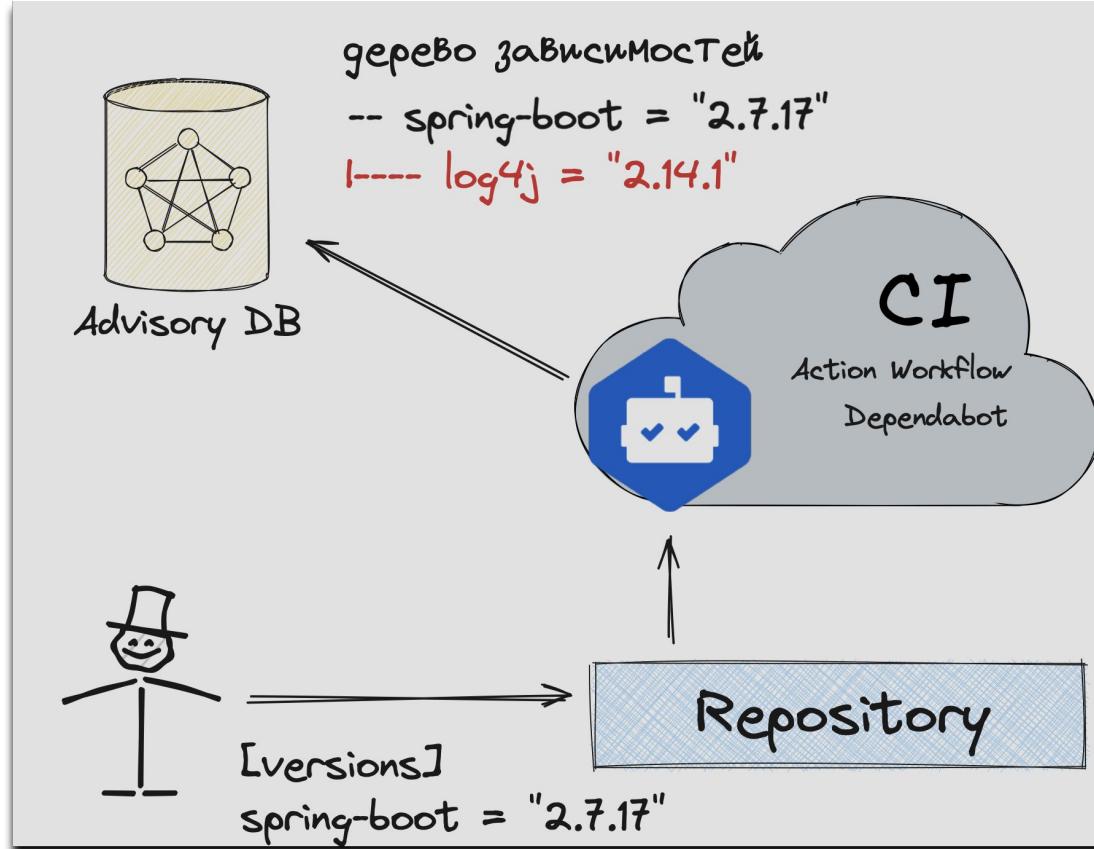
- ▶ `github-actions`
- ▶ `gradle`
- ▶ `gradle-wrapper`

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

🕒

```
{  
  "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"  
    }  
  }  
}
```

Dependabot



Dependabot

Cargo	Rust
Composer	PHP
NuGet	.NET languages (C#, F#, VB), C++
GitHub Actions	YAML
Go modules	Go
Maven	Java, Scala
npm	JavaScript
pip	Python
pnpm	JavaScript
pub	Dart
Python Poetry	Python
RubyGems	Ruby
Swift Package Manager	Swift
Yarn	JavaScript

H1oatic

Gradle?

SBT?

Kotlin?

Used by 1.7m

Contributors 1,028

+ 1,014 contributors

Dependabot

Discussions Actions Projects Wiki Security 2 Insights Settings

Overview Dependabot alerts Configure ▾

Reporting Policy Advisors

Vulnerability alerts

Dependabot 2

Code scanning Secret scanning

is:open

2 Open 3 Closed Package Ecosystem Manifest Severity Sort

⚡ Data written to GitHub Actions Cache may expose secrets High
#8 opened last year · Detected in gradle/gradle-build-action (GitHub Actions) · .github/workflows/kjs-yarn-update.yml

⚡ Data written to GitHub Actions Cache may expose secrets High
#7 opened last year · Detected in gradle/gradle-build-action (GitHub Actions) · .github/workflows/diktat.yml

💡 ProTip! See auto-dismissed alerts with [resolution:auto-dismissed](#).

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Зависимости и безопасность

ДОКЛАД

Analytics

14.03 / 11:00 – 11:45 (UTC+3)

Архивы уязвимостей и как их готовить

RU



Презентация

pdf



В мире существует множество баз данных и форматов для хранения уязвимостей.

Многие из вас знакомы с такими аббревиатурами, как CVE и CWE. Некоторые слышали о NVD и OWASP, а кто-то, возможно, даже умеет рассчитывать векторы атак по CVSS.

Однако в глобальном мире, где программистам важно быстро анализировать свой код и узнавать об уязвимых зависимостях, существует множество баз данных для лучшей агрегации и поиска по существующим проблемам безопасности.

Есть целые комитеты, которые разрабатывают форматы – такие, как OSV – для лучшего представления и репортинга проблем с безопасностью в базах GitHub Advisory, Ubuntu Security Notices, Android Vulnerability Database и других. В итоге очень сложно уследить за всеми новыми аббревиатурами и обновлениями, которые появляются почти ежедневно.

Обобщу знания об уже существующих форматах, схемах и репозиториях для уязвимостей. Поделюсь своим опытом создания нового формата для представления и хранения уязвимостей под названием COSV. Кроме того, расскажу про личный опыт разработки базы данных уязвимостей, построенной на основе этого формата, которая стала стандартом для China Computing Federation (CCF).

Спикеры

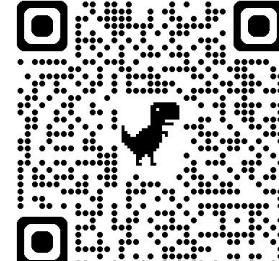


Андрей Кулешов
Huawei

Приглашенные эксперты



Антон Сысоев
Независимый разработчик



07

Метрики

Как сделать все по красоте

Метрики проекта и разработки

Инструменты рефакторинга: от dependabot до codegen и автофиксеров

Инструменты тренинга и работы с документацией

Анализ кода, стиля, архитектуры, FOSS-сканирование

Утилиты для безопасности: от уязвимых зависимостей до эксплойтов в коде и тд

CD системы, релизные утилиты, версионирование

Cloud IaaS/PaaS решения для разработчиков

CI системы, фреймворки тестирования

IDE и плагины

Утилиты сборки и организация проекта

Язык программирования

Метрики

Популярность
Использования
Stars, forks

repo size 749 kB

total lines 78k

Hits-of-Code 54.7k

CII Best Practices Level:

CII Best Practices Tiered Percentage:

CII Best Practices Summary:



<https://bestpractices.coreinfrastructure.org>

<https://hitsofcode.com>

Cyclomatic complexity
Cognitive complexity

codebeat A

<https://codebeat.co>

Тестовое покрытие

JaCoCo: для создания отчета

```
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

codecov (bot) commented last week

Codecov Report

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

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](#).

Codecov bot!

Тестовое покрытие

JaCoCo: для создания отчета

```
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

The screenshot shows a GitHub pull request page with a codecov bot comment. The comment header reads: "codecov (bot) commented last week". Below it is the "Codecov Report" section. The report title is "Merging #1420 (3fb2d7c) into master (3a0cc50) will increase coverage by 0.00%. The diff coverage is 89.47%." The report table compares "master" and "diff" across various metrics:

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

Below the table, there's a "Flags" section with a table:

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

A note below says: "Flags with carried forward coverage won't be shown. [Click here](#) to find out more."

At the bottom, there's an "Impacted Files" table:

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

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

Codecov bot!

+ А для совсем крутых: KOVER

08

Выводы



AI ассистенты

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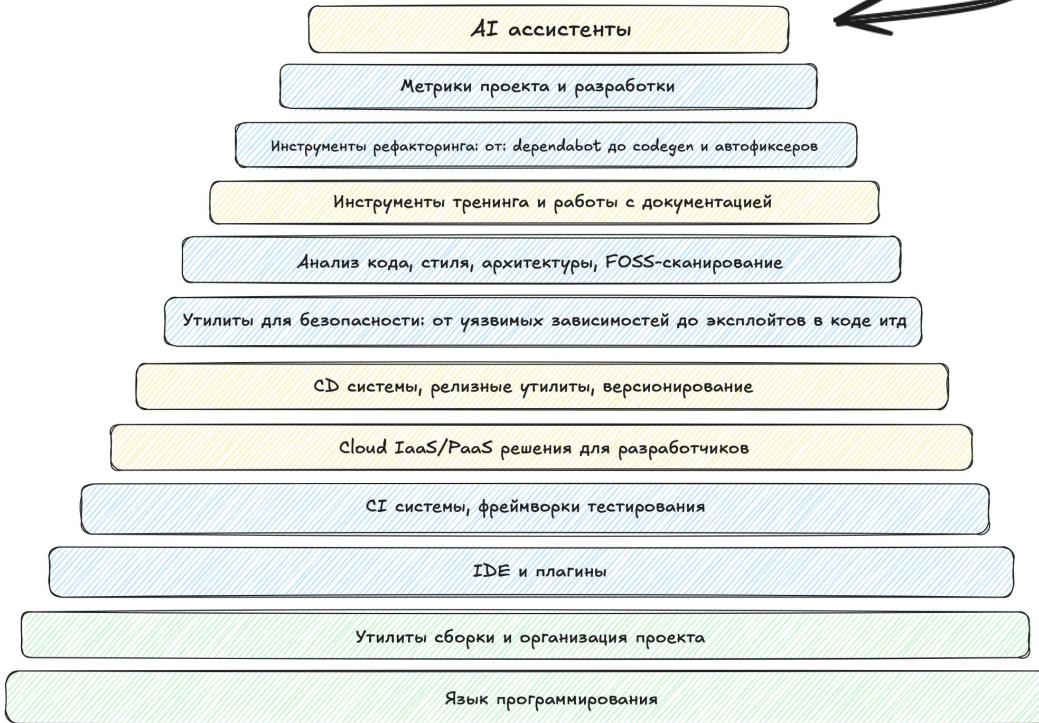
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Утилиты сборки и организация проекта

Язык программирования



А как же это?



Держите хайпа из твиттера

cursor.com

О чём хотелось бы еще напомнить

Документация

Привлечение людей

Побольше про
AI помощников

Фаззинг

Кодогенераторы

Тысячи классных
Actions

Профилирование

Фичи Github Next

Еще больше gradle
плагинов

Красота проекта

Бейджи

Выводы

- Делай хорошо - будет хорошо (с) Жуся Стетхем

Выводы

- Делай хорошо - будет хорошо (с) Жуся Стетхем
- Идем в open-source делать красоту 😊

Выводы

- Делай хорошо - будет хорошо (с) Жуся Стетхем
- Идем в open-source делать красоту 😊
- И да пребудет с вами сила!



Спасибо!

Добавляйся на Github:

