

Автоматизируем GitHub-Actions

Как масштабировать CI/CD сценарии и упростить их обслуживание



О себе

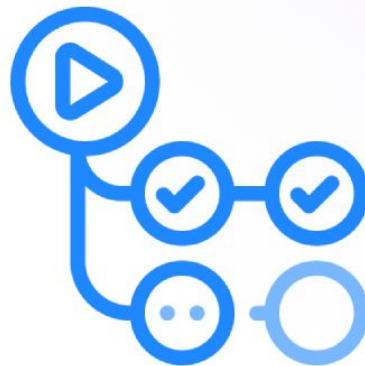
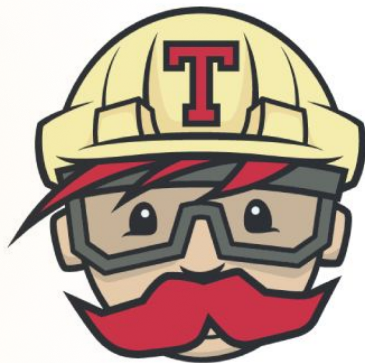
Алексей Николаев

- 10 лет в IT
- Основная специализация - frontend
- Тимлид в sendsay.ru
- Sendsay - это маркетинговая платформа для рассылок через email, vk, tg и других каналов



Почему я это рассказываю?

From Travis CI



To GitHub Actions

О себе

Почему я это рассказываю?

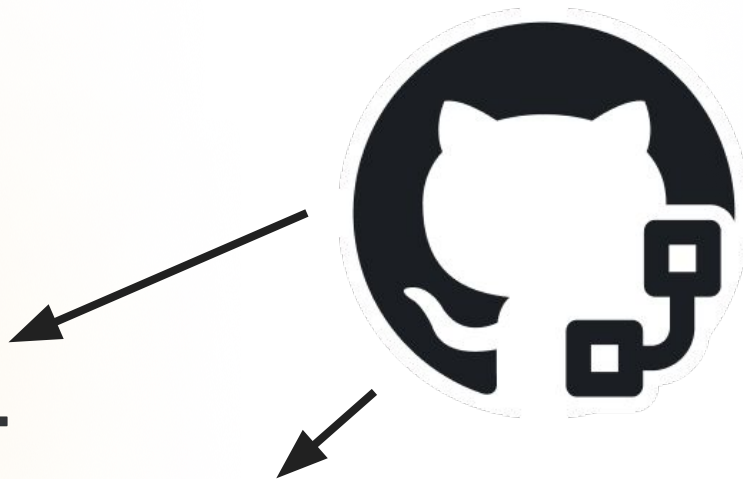


ROCKET.CHAT



О себе

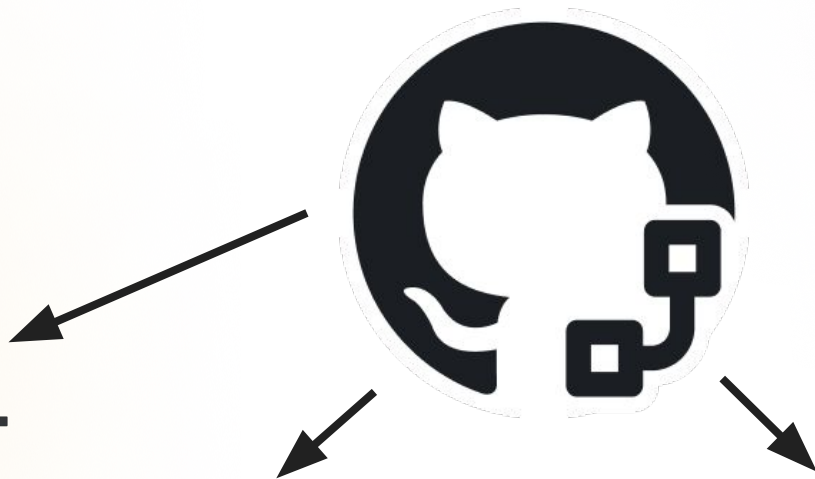
Почему я это рассказываю?



Fibery 

О себе

Почему я это рассказываю?

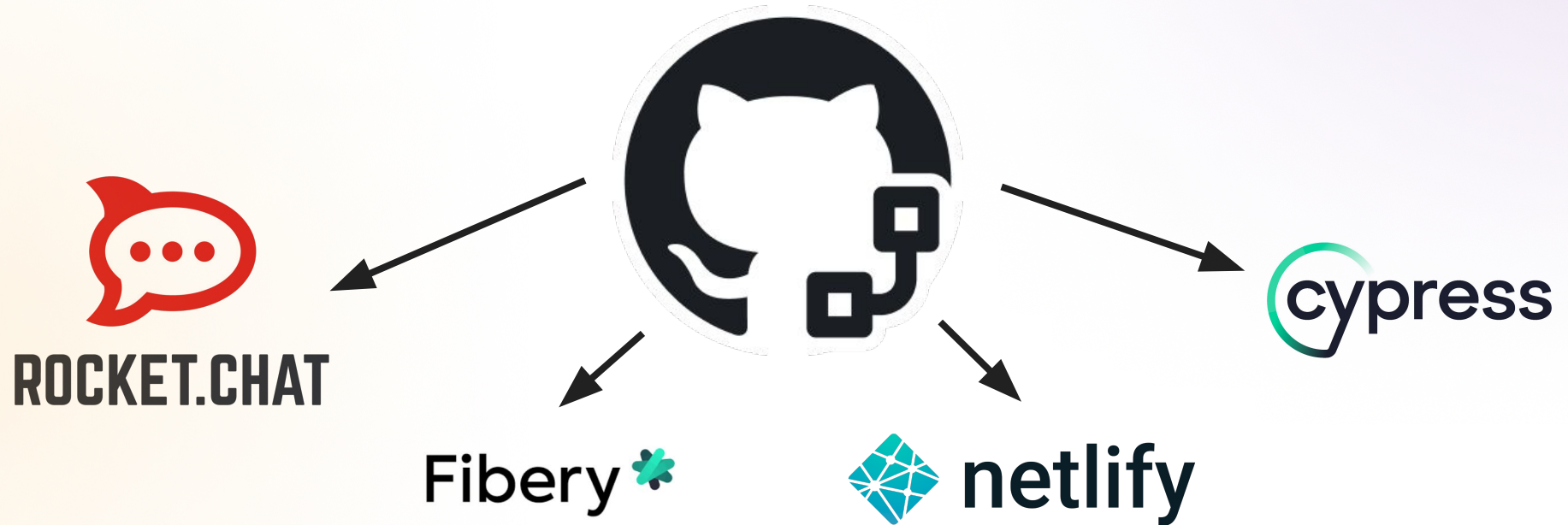


Fibery 

 netlify

О себе

Почему я это рассказываю?



Терминология

Что мы хотим от CI/CD?

Терминология

Что мы хотим от CI/CD?

- Сборка / Деплой

Терминология

Что мы хотим от CI/CD?

- Сборка / Деплой
- Валидация кода

Терминология

Что мы хотим от CI/CD?

- Сборка / Деплой
- Валидация кода
- Тестирование

Терминология

Что мы хотим от CI/CD?











- Сборка / Деплой
- Валидация кода
- Тестирование
- Обратная связь

Проблемы

- Много логики
- Сложно разобраться
- Знает кто-то один

[docusaurus](#) / [.github](#) / [workflows](#) / 

 **dependabot[bot]** chore(deps): bump actions/dependency-review-action from 3.0.8 to 3.1.0 ()

Name	Last commit message
 ..	
 argos.yml	chore(deps): bump acti
 build-blog-only.yml	chore(deps): bump acti
 build-perf.yml	chore(deps): bump acti
 canary-release.yml	chore(deps): bump acti
 codeql-analysis.yml	chore(deps): bump acti
 cspell-problem-matcher.json	chore: add cSpell for sp
 dependency-review.yml	chore(deps): bump acti
 lighthouse-report.yml	chore(deps): bump acti
 lighthouserc.json	misc: run Lighthouse CI

Проблемы CI/CD

Причины

- Настраивает кто-то один
- “Главное, чтобы работало”
- Слабое ревью

Проблемы CI/CD

Следствие

- Дорого вносить изменения
- Проблема масштабирования

Рассмотрим пример

Создаем сценарий

Постановка задачи

На каждом PR:

- Валидировать код с помощью ESLint, Stylelint
- Запускать unit-тесты

GitHub Actions

Что это?

CI/CD платформа, интегрированная в GitHub

GitHub Actions

Что это?

CI/CD платформа, интегрированная в GitHub

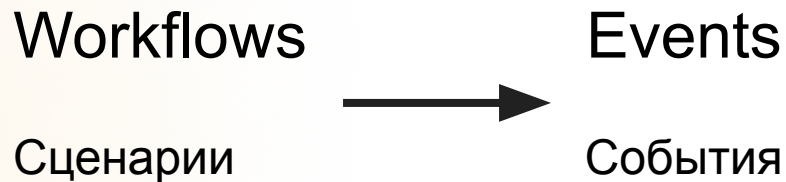
Workflows

Сценарии

GitHub Actions

Что это?

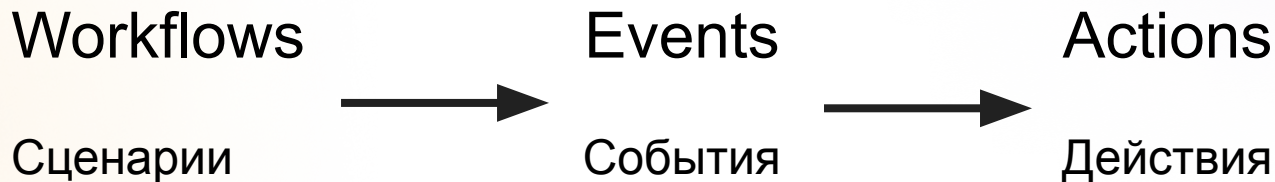
CI/CD платформа, интегрированная в GitHub



GitHub Actions

Что это?

CI/CD платформа, интегрированная в GitHub



GitHub Actions

ОСНОВНЫЕ ПЛЮСЫ

- Модульность

GitHub Actions

ОСНОВНЫЕ ПЛЮСЫ

- Модульность
- Популярность

GitHub Actions

ОСНОВНЫЕ ПЛЮСЫ

Marketplace / Search results

Types

Apps

Actions

Categories

API management

Chat

Code quality

Code review

Continuous integration

Dependency management

Deployment

IDEs

Learning

Search for apps and actions

Sort: Best Match

Actions

An entirely new way to automate your development workflow.

21022 results filtered by Actions

Actions



Setup Java JDK

By actions

Creator verified by GitHub

Set up a specific version of the Java JDK and add the command-line tools to the PATH

1.3k stars



Cache

By actions

Creator verified by GitHub

Cache artifacts like dependencies and build outputs to improve workflow execution time

4k stars



Setup .NET Core SDK

By actions

Creator verified by GitHub



Setup Go environment

By actions

Creator verified by GitHub

GitHub Actions

ОСНОВНЫЕ ПЛЮСЫ

- Модульность
- Популярность
- Скорость

GitHub Actions

ОСНОВНЫЕ ПЛЮСЫ

- Модульность
- Популярность
- Скорость
- Обратная связь

.github/workflows/check-pr.yml

name: Check PR

on: [pull_request]

jobs:

checks:

runs-on: ubuntu-latest

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
node-version: 18
- name: Install packages
run: npm ci
- name: Stylelint
run: npx stylelint src/**/*.css
- name: ESLint
run: npx eslint src

tests:

runs-on: ubuntu-latest

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
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- name: Install packages
run: npm ci
- name: Unit
run: env NODE_ENV=test npx jest

```
# .github/workflows/check-pr.yml
```

Название

```
name: Check PR
```



```
on: [pull_request]
```

```
jobs:
```

```
  checks:
```

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

```
    steps:
```

```
      - name: Checkout
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        uses: actions/checkout@v3
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        with:
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      - name: Install packages
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        run: npx stylelint src/**/*.css
```

```
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```

```
        run: npx eslint src
```

```
  tests:
```

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

```
    steps:
```

```
      - name: Checkout
```

```
        uses: actions/checkout@v3
```

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      - name: Setup node
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        uses: actions/setup-node@v3
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        with:
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          node-version: 18
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      - name: Install packages
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        run: env NODE_ENV=test npx jest
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# .github/workflows/check-pr.yml
```

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name: Check PR
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on: [pull_request]
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        run: npm ci
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```
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```

```
        run: npx stylelint src/**/*.css
```

```
      - name: ESLint
```

```
        run: npx eslint src
```

Триггер



```
tests:
```

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

```
  steps:
```

```
    - name: Checkout
```

```
      uses: actions/checkout@v3
```

```
    - name: Setup node
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        node-version: 18
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    - name: Install packages
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```

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      run: env NODE_ENV=test npx jest
```

```
# .github/workflows/check-pr.yml
```

```
name: Check PR  
on: [pull_request]
```

```
jobs:
```

```
checks:
```

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

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steps:
```

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
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with:
node-version: 18
- name: Install packages
run: npm ci
- name: Stylelint
run: npx stylelint src/**/*.css
- name: ESLint
run: npx eslint src

Задания

```
tests:
```

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

```
steps:
```

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
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run: env NODE_ENV=test npx jest

```
# .github/workflows/check-pr.yml
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name: Check PR
on: [pull_request]
jobs:
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```

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
node-version: 18
- name: Install packages
run: npm ci
- name: Stylelint
run: npx stylelint src/**/*.*css
- name: ESLint
run: npx eslint src

Шаги

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

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
node-version: 18
- name: Install packages
run: npm ci
- name: Unit
run: env NODE_ENV=test npx jest

```
# .github/workflows/check-pr.yml
```

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name: Check PR  
on: [pull_request]
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```
jobs:
```

```
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```
    runs-on: ubuntu-latest
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```
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- **name: Checkout**
uses: actions/checkout@v3

- name: Setup node

 - uses: actions/setup-node@v3

 - with:

 - node-version: 18

- name: Install packages

 - run: npm ci

- name: Stylelint

 - run: npx stylelint src/**/*.*css

- name: ESLint

 - run: npx eslint src

git checkout

```
graph TD; A[git checkout] --> B[checks]; A --> C[tests];
```

```
  tests:
```

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

```
    steps:
```

- **name: Checkout**
uses: actions/checkout@v3

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 - uses: actions/setup-node@v3

 - with:

 - node-version: 18

- name: Install packages

 - run: npm ci

- name: Unit

 - run: env NODE_ENV=test npx jest


```
# .github/workflows/check-pr.yml
```

```
name: Check PR
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jobs:
```

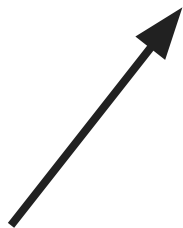
```
  checks:
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```
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```

<https://github.com/actions/checkout>



```
tests:
```

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

```
  steps:
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        run: npm ci
      - name: Stylelint
        run: npx stylelint src/**/*.css
      - name: ESLint
        run: npx eslint src
```

node.js



```
tests:
  runs-on: ubuntu-latest
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    - name: Checkout
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    - name: Setup node
      uses: actions/setup-node@v3
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        node-version: 18
    - name: Install packages
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```

```
# .github/workflows/check-pr.yml
```

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```
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```

```
jobs:
```

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

```
    steps:
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```
      - name: Stylelint
```

```
        run: npx stylelint src/**/*.css
```

```
      - name: ESLint
```

```
        run: npx eslint src
```

npm install

```
  tests:
```

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

```
    steps:
```

```
      - name: Checkout
```

```
        uses: actions/checkout@v3
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```

```
      - name: Unit
```

```
        run: env NODE_ENV=test npx jest
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# .github/workflows/check-pr.yml
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name: Check PR
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```
on: [pull_request]
```

```
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    steps:
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```

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```

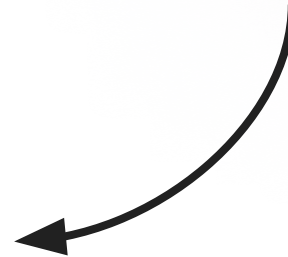
```
      - name: Stylelint
```

```
        run: npx stylelint src/**/*.css
```

```
      - name: ESLint
```

```
        run: npx eslint src
```

Stylelint



```
# .github/workflows/check-pr.yml
```

```
name: Check PR
```

```
on: [pull_request]
```

```
jobs:
```

```
  checks:
```

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

```
    steps:
```

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```
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```

```
        run: npx eslint src
```

ESLint



Jest

```
tests:
  runs-on: ubuntu-latest
  steps:
    - name: Checkout
      uses: actions/checkout@v3
    - name: Setup node
      uses: actions/setup-node
      with:
        node-version: 18
    - name: Install packages
      run: npm ci
    - name: Unit
      run: env NODE_ENV=test npx jest
```



.github/workflows/check-pr.yml

name: Check PR

on: [pull_request]

jobs:

checks:

runs-on: ubuntu-latest

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
node-version: 18
- name: Install packages
run: npm ci
- name: Stylelint
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- name: ESLint
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tests:

runs-on: ubuntu-latest

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
node-version: 18
- name: Install packages
run: npm ci
- name: Unit
run: env NODE_ENV=test npx jest

напиши сценарий github actions для валидации кода eslint, stylelint и параллельно запускать unit тесты

Сценарий Github Actions для валидации кода Eslint, Stylelint и запуска Unit тестов может выглядеть следующим образом:

```
name: CI

on:
  push:
    branches: [master]
  pull_request:
    branches: [master]

jobs:
  build:
    runs-on: ubuntu-latest
    steps:
```


Создаем сценарий

Правила ветки

The screenshot shows the GitHub Actions Checks settings page for the repository 'sendsay-ru / github-actions-checks'. The 'Settings' tab is selected in the top navigation bar. On the left sidebar, the 'Branches' section is highlighted under 'Code and automation'. The main content area is titled 'Branch protection rules' and features an 'Add rule' button in the top right. A single rule named 'stable' is listed, with a status indicating it 'Currently applies to 1 branch'. Below the rule name are 'Edit' and 'Delete' buttons.

sendsay-ru / github-actions-checks

Type to search

Code Issues Pull requests 1 Actions Projects Wiki Security Insights Settings

General

Access

- Collaborators and teams
- Moderation options

Code and automation

- Branches**
- Tags
- Rules
- Actions
- Webhooks

Branch protection rules

Add rule

stable

Currently applies to 1 branch

Edit Delete

Создаем сценарий

Настраиваем проверки

Require status checks to pass before merging

Choose which [status checks](#) must pass before branches can be merged into a branch that matches this rule. When enabled, commits must first be pushed to another branch, then merged or pushed directly to a branch that matches this rule after status checks have passed.

Require branches to be up to date before merging

This ensures pull requests targeting a matching branch have been tested with the latest code. This setting will not take effect unless at least one status check is enabled (see below).

Q tests

Status checks that are required.

checks

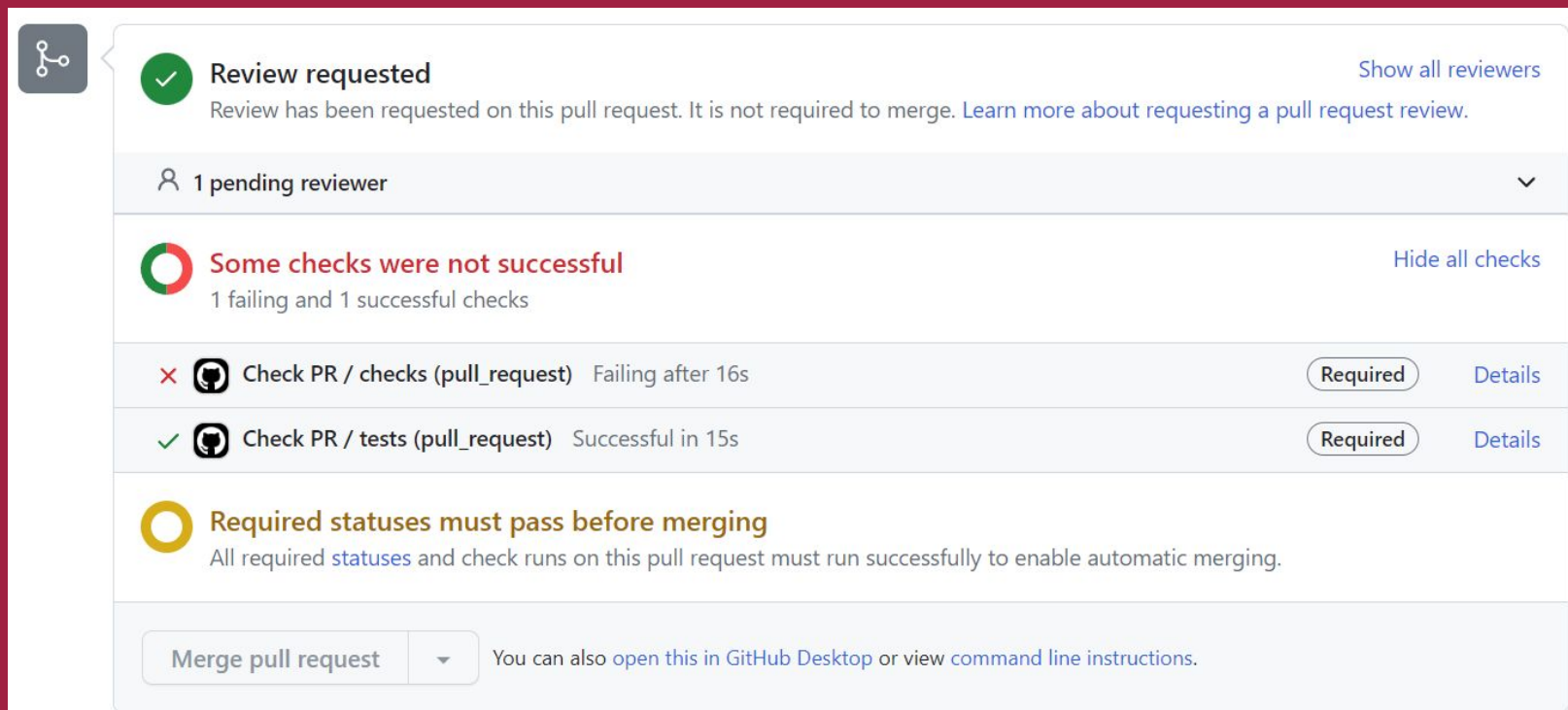
 [GitHub Actions](#) ▾ ×

tests


 [GitHub Actions](#) ▾ ×


Создаем сценарий


Тестируем








The screenshot shows the status of a pull request on GitHub. It features a green checkmark icon for 'Review requested', a red and green progress indicator for 'Some checks were not successful', and a yellow warning icon for 'Required statuses must pass before merging'. The interface includes a 'Merge pull request' button and a dropdown menu.

 **Review requested** Show all reviewers
Review has been requested on this pull request. It is not required to merge. [Learn more about requesting a pull request review.](#)

 1 pending reviewer ▼

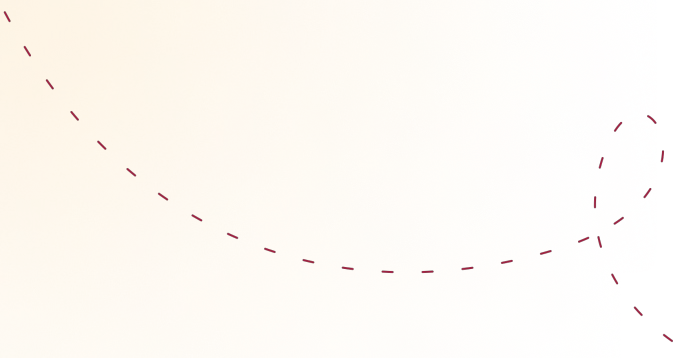
 **Some checks were not successful** Hide all checks
1 failing and 1 successful checks

	 Check PR / checks (pull_request) Failing after 16s	Required	Details
	 Check PR / tests (pull_request) Successful in 15s	Required	Details

 **Required statuses must pass before merging**
All required [statuses](#) and check runs on this pull request must run successfully to enable automatic merging.

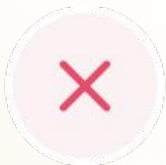
▼ You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Упрощаем



Упрощаем

Package.json как абстракция



```
workflow:  
  - name: ESLint  
    run: npx eslint src
```



```
workflow:  
  - name: ESLint  
    run: npm run eslint
```

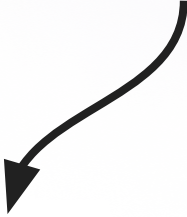
```
# package.json  
"scripts": {  
  "eslint": "npx eslint src",
```

Упрощаем

env переменные

```
steps:  
+   - id: dotenv  
+     uses: falti/dotenv-action  
-   - name: Setup node  
      uses: actions/setup-node@v3  
      with:  
-     node-version: 18  
+     node-version: ${{ steps.dotenv.outputs.node }}  
-   - name: Install packages  
      run: npm ci
```

```
# .env  
NODE=18  
NODE_ENV=CI  
FORCE_COLOR=1
```



Упрощаем

Уменьшаем `boilerplate`

steps:

- name: Checkout
uses: actions/checkout@v3
- name: Setup node
uses: actions/setup-node@v3
with:
node-version: 18
- name: Install packages
run: npm ci

Упрощаем

Отдельный Action


```
# .github/actions/check-install/action.yml
```

```
name: Preparing
description: preparing to run the checks
runs:
  using: composite
  steps:
    - name: Setup node
      uses: actions/setup-node@v3
      with:
        node-version: 18
    - name: Install packages
      run: npm ci
```


Упрощаем

Используем Action

```
- name: Checkout
  uses: actions/checkout@v3
- name: Setup node
  uses: actions/setup-node@v3
  with:
    node-version: 18
- name: Install packages
  run: npm ci
+ name: Preparing
+ uses: ../github/actions/check-install
```



Упрощаем

Actions



Локально



Отдельный репозиторий



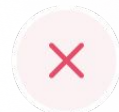
YML



Полностью на JS



Docker-контейнер




Асинхронность

Упрощаем

Матрица

```
name: Check PR
on: [pull_request]
jobs:
  checks:
    runs-on: ubuntu-latest
+   strategy:
+     matrix:
+       script: [lint, unit]
  steps:
    - name: Checkout
      uses: actions/checkout@v3
```



Матрица

- tests:
- runs-on: ubuntu-latest
- steps:
 - name: Checkout
 - uses: actions/checkout@v3
 - name: Setup node
 - uses: actions/setup-node@v3
 - with:
 - node-version: 18
 - name: Install packages
 - run: npm ci
 - name: Preparing
 - uses: ../.github/actions/check-install
 - name: Unit
 - run: npm unit

Вызов матрицы

```
-       - name: Stylelint
-       run: npm run stylelint
-       - name: ESLint
-       run: npm run eslint
+       - name: ${matrix.script}
+       run: ${matrix.script}
```

```
# package.json
"scripts": {
  "lint:ci": "npm run eslint && npm run stylelint",
```

Конфиг с матрицей

```
# config.json
```

```
{  
  "include": [  
    {  
      "name": "Lint",  
      "script": "npm run lint:ci"  
    },  
    {  
      "name": "Unit",  
      "script": "npm run unit"  
    }  
  ]  
}
```

Парсинг конфига

```
jobs:
  config:
    runs-on: ubuntu-latest
    outputs:
      matrix: ${{ steps.set-matrix.outputs.matrix }}
    steps:
      - name: Checkout to repository
        uses: actions/checkout@v3
      - name: Set matrix data
        id: set-matrix
        run: echo "matrix=$(jq -c . < ./config.json)" >> $GITHUB_OUTPUT
```

Матрица

```
jobs:
  ...
  checks:
    runs-on: ubuntu-latest
+   needs: config
    strategy:
-     matrix
-     sctipt: [lint, unit]
+     matrix: ${{fromJson(needs.config.outputs.matrix)}}
```


Упрощаем

Используем конфиги

```
# .env
NODE=18
NODE_ENV=CI
FORCE_COLOR=1
```

```
# config.json
{
  "include": [
    {
      "name": "Lint",
      "script": "npm run lint:ci"
    },
    {
      "name": "Unit",
      "script": "npm run unit"
    }
  ]
}
```

Reusable workflows

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository](#).

Required fields are marked with an asterisk ().*

Owner *



sendsay-ru ▾



Repository name *

.github



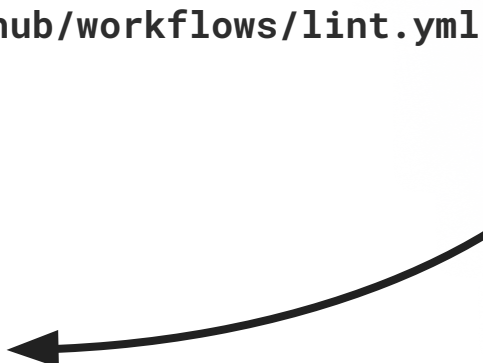
sendsay-ru/.github is a 🌟*special*🌟 repository that you can use to add README.md to your public organization profile, visible to anyone. Make sure it's public and initialize it with a **README** in the **profile** directory to get started.

Масштабируем

Reusable workflows

```
# sendsay-ru/.github/.github/workflows/lint.yml

name: Lint
- on: [pull_request]
+ on:
+ workflow_call:
+   inputs:
+     config-path:
+       required: true
+       type: string
```



Масштабируем

Reusable workflows

```
name: Check PR
on: [pull_request]
jobs:
  checks:
    uses: sendsay-ru/.github/.github/workflows/lint.yml@stable
    with:
      config-path: .github/lint.json
      install-command: npm ci
      node-version: 18
    secrets: inherit
```

Starter workflows

Масштабируем

Starter workflows

```
# sendsay-ru/.github/workflows-templates/lint.yml
name: Check PR
on:
  pull_request:
    branches: [ $default-branch ]
jobs:
  checks:
    uses: sendsay-ru/.github/.github/workflows/lint.yml@stable
    with:
      config-path: .github/lint.json
      ...
```

Масштабируем

Starter workflows

```
# sendsay-ru/.github/workflows-templates/lint.properties.json

{
  "name": "Linting JS",
  "description": "Linting and testing JavaScript on PRs",
  "categories": ["JavaScript"],
  "iconName": "lint",
  "filePatterns": ["package.json"]
}
```


Choose a workflow

Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work

Skip this and [set up a workflow yourself](#) →

Suggested for this repository

By Sendsay

Linting JS

By Sendsay

JS

Linting and testing JavaScript on PRs

Configure

JavaScript

[sendsay-forms](#) / [.github](#) / [workflows](#) / in [master](#)[Edit](#)[Preview](#)

```
1 name: Check PR
2 on:
3   push:
4     branches: [ "master" ]
5   pull_request:
6     branches: [ "master" ]
7 jobs:
8   checks:
9     uses: sendsay-ru/.github/.github/workflows/lint.yml@stable
10    with:
11      config-path: .github/lint.json
12      install-command: yarn
13      node-version: 18
14      secrets: inherit
15
```

Уточнение

Reusable workflows – любой репозиторий

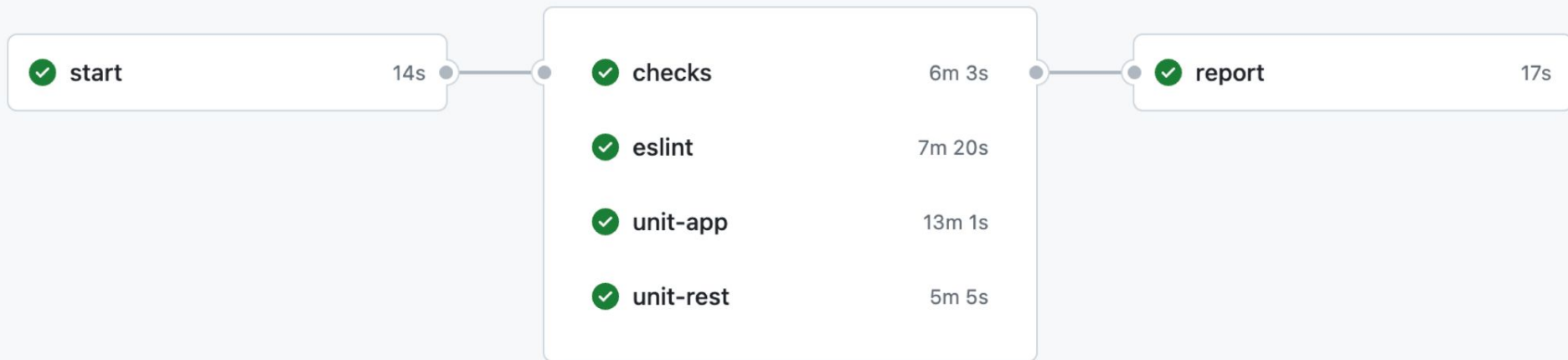
Starter workflows – репозиторий `.github` (public)

Сложные сценарии

Сложные сценарии

check-pr.yml

on: pull_request



Сложные сценарии

check-pr.yml

on: pull_request



start

14s

✓ checks

6m 3s

✓ report

17s

✓ eslint

7m 20s



github-actions (bot) commented now • edited by aleksnick ▾

👤 Checks in progress...

ESLint	Prettier	Stylelint	TypeScript	Unit (app)	Unit (rest packages)
🏃	🏃	🏃	🏃	🏃	🏃

[See details](#)



Сложные сценарии

check-pr.yml

on: pull_request

✔ start

14s

✔ checks

6m 3s

✔ report

17s

✔ eslint

7m 20s



github-actions bot commented 10 hours ago · edited by aleksnick ▾

✔ Checks completed successfully!

ESLint	Prettier	Stylelint	TypeScript	Unit (app)	Unit (rest packages)
🌿	🌿	🌿	🌿	🌿	🌿

[See details](#)



Получение результатов матрицы



GitHub Action

Matrix outputs - read

0.1.1 Latest version

Use latest version ▼

github-action-matrix-outputs-read release v0.1.1

slack 7899

WE ARE A DEVOPS ACCELERATOR. HIRE US.

Get Price

Cloud Posse

[Workaround implementation](#) - Read matrix jobs outputs

Verified creator

GitHub has verified that this action was created by **cloudposse**.

[Learn more about verified Actions.](#)

Stars

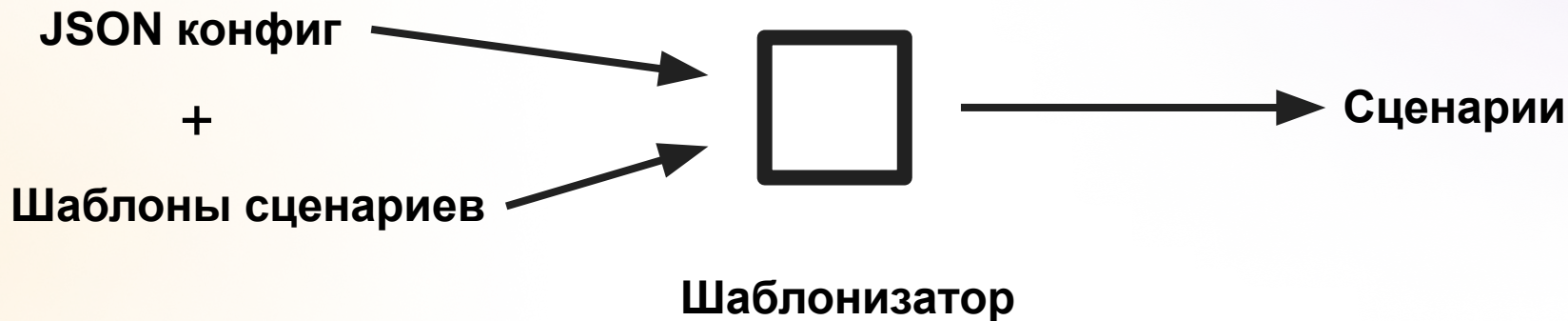
☆ Star 2 ▼

Contributors



Сложные сценарии

Используем шаблонизатор



```
{
  "jobs": [ ← Задания
    {
      "key": "checks",
      "steps": [
        {
          "key": "eslint", "name": "ESLint", "command": "npm run eslint"
        },
        {
          "key": "stylelint", "name": "Stylelint", "command": "npm run stylelint"
        }
      ]
    },
    {
      "key": "tests",
      "steps": [
        {
          "key": "unit", "name": "Unit", "command": "npm run test"
        }
      ]
    }
  ],
  "node": 18,
  "installCommand": "npm install"
}
```

.github.checks.json

```
{
  "jobs": [
    {
      "key": "checks",
      "steps": [
        {
          "key": "eslint", "name": "ESLint", "command": "npm run eslint"
        },
        {
          "key": "stylelint", "name": "Stylelint", "command": "npm run stylelint"
        }
      ]
    },
    {
      "key": "tests",
      "steps": [
        {
          "key": "unit", "name": "Unit", "command": "npm run test"
        }
      ]
    }
  ],
  "node": 18,
  "installCommand": "npm install"
}
```

Задачи



.github.checks.json

```
{
  "jobs": [
    {
      "key": "checks",
      "steps": [
        {
          "key": "eslint", "name": "ESLint", "command": "npm run eslint"
        },
        {
          "key": "stylelint", "name": "Stylelint", "command": "npm run stylelint"
        }
      ]
    },
    {
      "key": "tests",
      "steps": [
        {
          "key": "unit", "name": "Unit", "command": "npm run test"
        }
      ]
    }
  ]
},
{
  "node": 18,
  "installCommand": "npm install"
}
]
```

Версия Node.js

ЗАВИСИМОСТИ

`.github.checks.json`

Сложные сценарии

Шаблонизатор: EJS

- 13 млн скачиваний
- поддерживает YML-файлы
- не ругается на синтаксис `${{ variable }}`

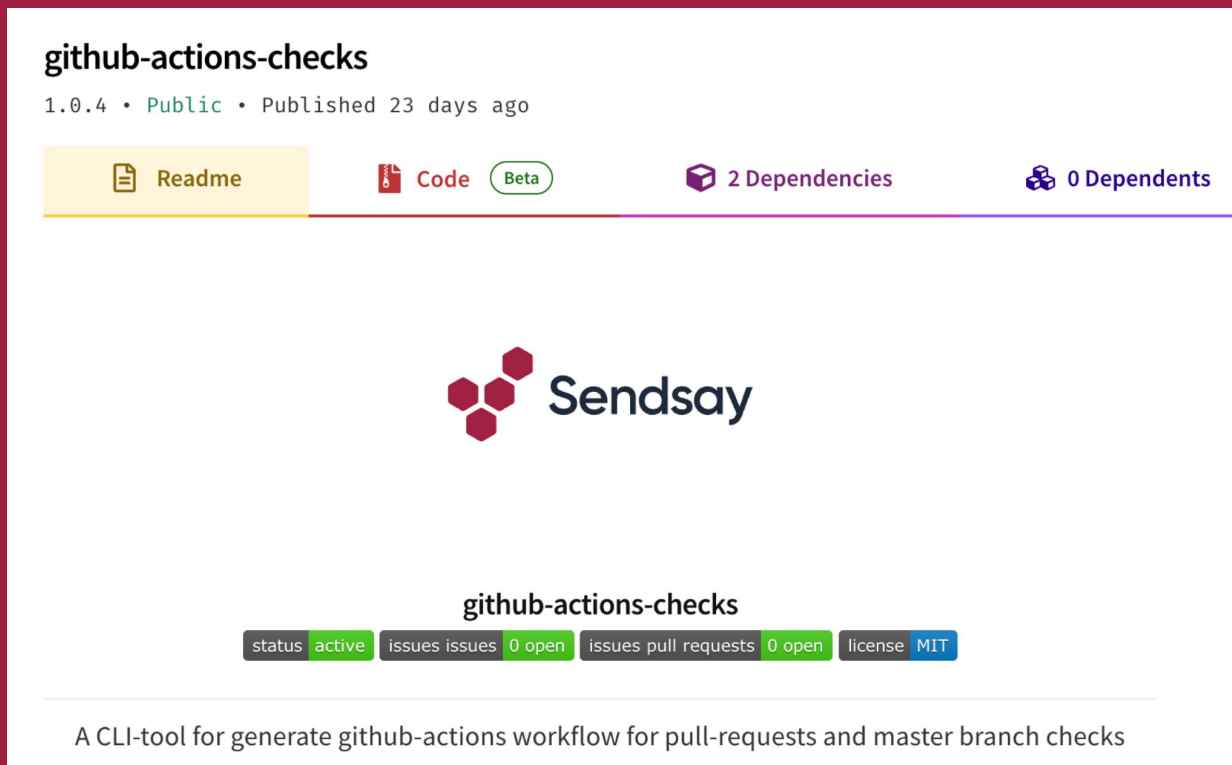
Сложные сценарии

Шаблоны

```
<% jobs.forEach((job) => { %>
  <%- job.key %>:
    <% if (showComments) { %>needs: start<% } %>
    runs-on: ubuntu-latest
    outputs:<% job.steps.forEach((step) => { %>
      <%- step.key %>: ${{ steps.<%- step.key %>.outputs.result }}<% }) %>
    steps:
      - name: Checkout
        uses: actions/checkout@v3
```

Сложные сценарии


NPM пакет



The screenshot shows the NPM package page for `github-actions-checks`. The package is version 1.0.4, is public, and was published 23 days ago. It has 2 dependencies and 0 dependents. The package is currently in a beta state. The package is developed by Sendsay, whose logo is visible. The package status is active, with 0 open issues and 0 open pull requests. The license is MIT.

github-actions-checks
1.0.4 • Public • Published 23 days ago

[Readme](#) [Code](#) Beta 2 Dependencies 0 Dependents

 Sendsay

github-actions-checks

status active issues 0 open issues pull requests 0 open license MIT

A CLI-tool for generate github-actions workflow for pull-requests and master branch checks

Сложные сценарии

CLI утилита

```
> npx github-actions-checks  
> nano ./github.checks.json  
> npx github-actions-checks  
> git commit
```


Сложные сценарии

CLI утилита

```
> npx github-actions-checks  
> nano ./github.checks.json  
> npx github-actions-checks  
> git commit
```



Поддержка

Сложные сценарии

CLI утилита

```
> npx github-actions-checks
```

```
> nano ./github.checks.json
```

```
> npx github-actions-checks
```

```
> git commit
```



Поддержка



Масштабирование

Тестирование

Check PR

[check-pr.yml](#)

47 workflow runs

✔ **feat(github-action-checks): init**
Check PR #22: Pull request [#3](#) synchronize by aleksnick

stable

✘ **feat(github-action-checks): init**
Check PR #21: Pull request [#3](#) opened by aleksnick

stable

✘ **feat(github-action-checks): init actions**
Check PR #20: Pull request [#2](#) synchronize by aleksnick

stable

✘ **feat(github-action-checks): init actions**
Check PR #19: Pull request [#2](#) synchronize by aleksnick

stable

✘ **feat(github-action-checks): init actions**
Check PR #18: Pull request [#2](#) synchronize by aleksnick

stable

✘ **[feat\(github-action-checks\): init actions](#)**
Check PR #17: Pull request [#2](#) synchronize by aleksnick

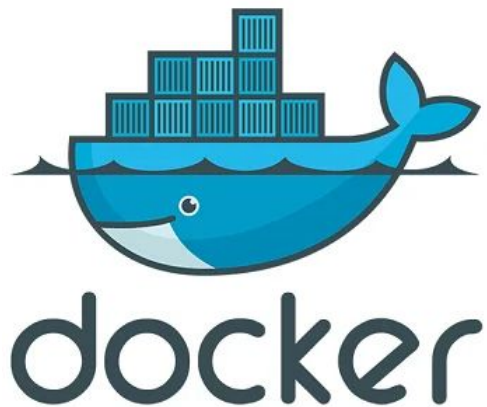
✘ **feat(github-action-checks): init actions**
Check PR #16: Pull request [#2](#) synchronize by aleksnick

✘ **feat(github-action-checks): init actions**
Check PR #15: Pull request [#2](#) synchronize by aleksnick

Тестирование

Act

```
act -W ./github/workflows/check-pr.yml
```



GitHub Actions

Итог

- CI/CD не должно быть сложным

Спасибо за внимание!



NPM пакет



t.me/aleksnick