



# sonarqube



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# Agenda

- General information
- Why should you use SonarQube
- How to setup a new Project
- Integration in your IDE
- Include SonarQube in your build process
- Customize rules and grading criteria
- Useful Plugins

# General information

- Continuous Inspection
- 26 languages supported (Java, Swift, COBOL...)
- >500 default rules for Java-Projects
- Available as private server or hosted as “SonarCloud”

# Why should you use SonarQube

- Static code analysis
- Improves your code quality
- Secures a minimum of code quality
- Saves a history of your statistics
- Custom rule sets
- Custom quality gates
- Extendable with Plugins
- setup once, use it everywhere

# How to setup a new project

- Cloud or Local Server
- Organisations
  - Safe settings for multiple projects
- Command line vs sonar-project.properties

# Integration in your IDE

- SonarLint Plugin
- Setup a SonarQube Server in the plugin settings
- Bind your current project to the just created server

# Include SonarQube in your build process

- Jenkins
  - direct configuration within jenkins' tool configuration
- Travis
  - sonarcloud addon in your travis.yml
  - triggers automated branch analysis
  - compares every branch to your master-branch

# Customize rules and quality gates

- 1 - 3 default quality profiles
  - not editable
- create new profiles by either inheriting an existing or establishing a new one
  - can not edit inherited rules



# Useful Plugins

- Findbugs
  - 872 additional rules
- Checkstyle
  - 158 rules about code style
  - configuration with xml documents
- SoftVis 3D
  - visualization of your code



Thank you for your attention

# Sources

- <https://www.sonarqube.org/>
- <https://sonarcloud.io/about>
- <https://softvis3d.com/#/>
- <https://docs.travis-ci.com/user/sonarcloud/>