

# SonarQube

SonarQube is a  
static analysis tool for  
controlling technical debt

A close-up photograph of a person's hand, wearing a dark sleeve, pointing with their index finger at a document. A purple pen lies on the document. The background is blurred, showing some bokeh lights.

# Static Analysis

Analyzing a program  
without running it

Usually it is done by  
another program



# Technical Debt

Extra work needed to  
recover from past  
"quick and dirty" fixes.

Usually it is fixed by  
**refactoring**

# Technical debt isn't always bad

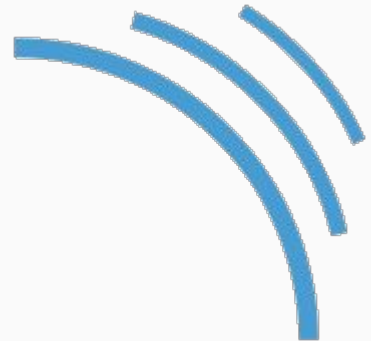
Sometimes, it allows you to move quickly and meet business goals

But a big amount of technical debt **is** bad

- Makes development slow
- Makes developers unhappy 🙄

# SonarQube

- Free and Open Source by SonarSource
  - Supports C#, Java, Python, JavaScript
- Scans your source code, and finds problems



# Jetabroad's dev process

GitHub Pull Request

Continuous Integration  
(by teamcity)

Pull Request Review  
(by a human)

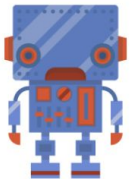
# Jetabroad's dev process

GitHub Pull Request

Continuous Integration  
(by teamcity)

Pull Request Review  
(by a bot!)

Pull Request Review  
(by a human)





# How we use it

- 
- Integrate it with TeamCity
- Runs on every pull request automatically (fast)
  - Uses a free plugin from SonarQube
- Nightly “full analysis” on code base (slow)
- Developers can install a free [SonarLint Visual Studio extension](#)
  - Nobody is surprised by the analysis

Demo