

An isometric illustration of a city skyline with various skyscrapers in shades of blue and green. The buildings have different architectural styles, including some with helipads, antennas, and windows. A small helicopter is flying in the center. Icons like a Wi-Fi symbol, a padlock, a dollar sign, and a checkmark are placed on or near the buildings. The background is a dark blue gradient.

# sonarqube

And continuous code  
inspection

## GOALS

### INTRODUCTION

Weaknesses of regular testing & code quality

### CONTINUOUS CODE INSPECTION

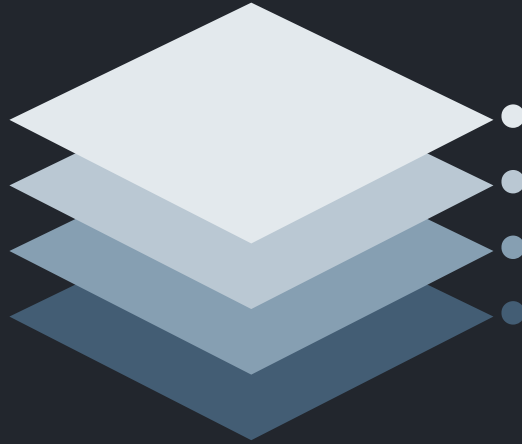
Advantages and use cases

### SONARQUBE

One implementation of continuous code inspection

### CONCLUSION

Place in the DevOps pipeline, takeaway message



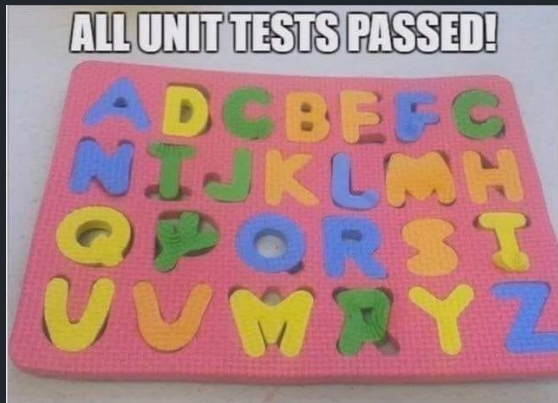
## INTRODUCTION

“Code quality is an indicator of how quickly a developer can add business value to a software system.”

*Paris Xavier Pinkney*



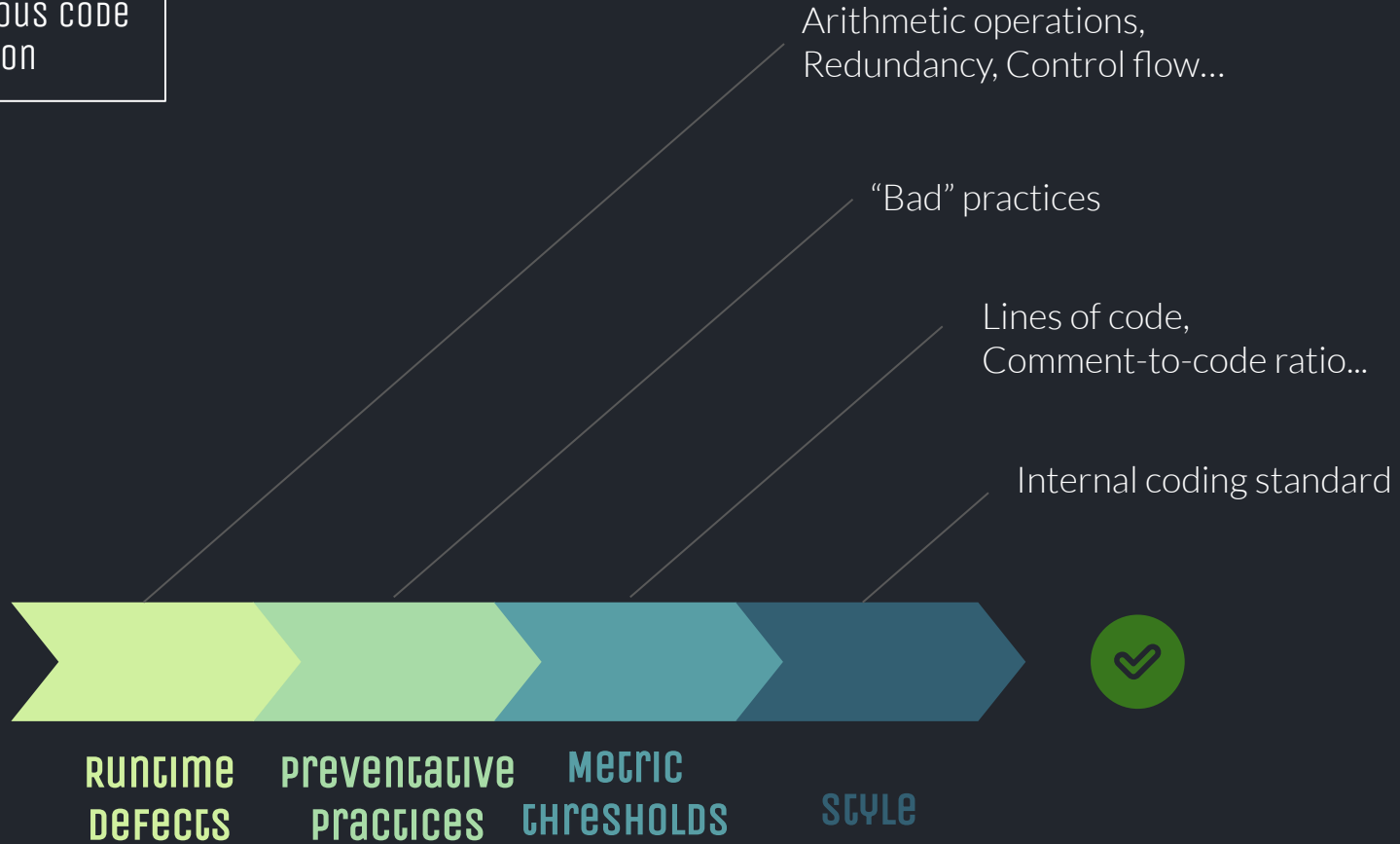
## INTRODUCTION



- Reliability
- Readability
- Simplicity
- Consistency
- Testability
- Maintainability
- Comprehensibility
- Modularity
- Efficiency




## CONTINUOUS CODE INSPECTION



## A SonarQube report in a CI Pipeline

### Quality reports

 SonarQube **FAILED**




+ Find integrations






#### SonarQube

SonarQube reported 1 week ago

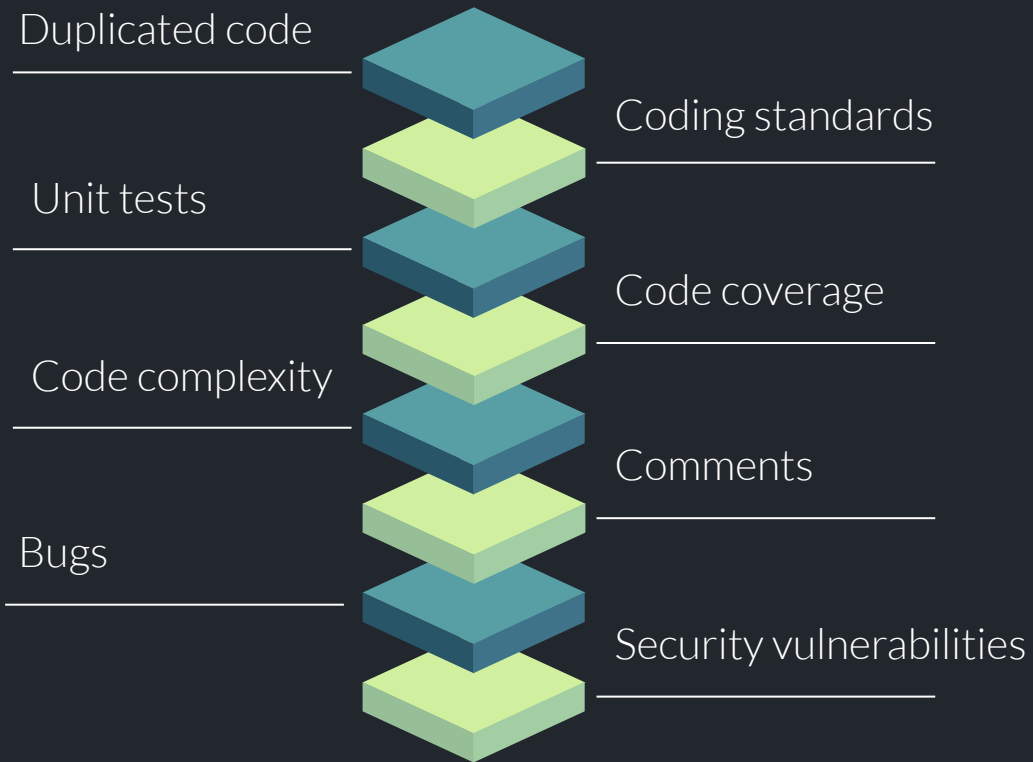
Quality Gate failed

- E Reliability Rating on New Code (is worse than A)
- 68.2% Coverage on New Code (is less than 80%)
- 17.7% Duplicated Lines on New Code (is greater than 3%)

Bugs	1	Code coverage	68.2%
Vulnerabilities	0	Duplication	17.7%
Code Smells	4	Details	<a href="#">Go to SonarQube</a>
Annotations	 3  1  1		

Severity	Message	File
 High	Add some tests to this class.	<a href="#">SimpleTest.java:6</a>
 High	Add an end condition to this loop.	<a href="#">Foo.java:15</a>
 High	Add a nested comment explaining why this method is empty, throw an...	<a href="#">Foo.java:25</a>
 Medium	Remove this useless assignment to local variable "primary".	<a href="#">Foo.java:12</a>
 Low	Remove this unused "primary" local variable.	<a href="#">Foo.java:10</a>

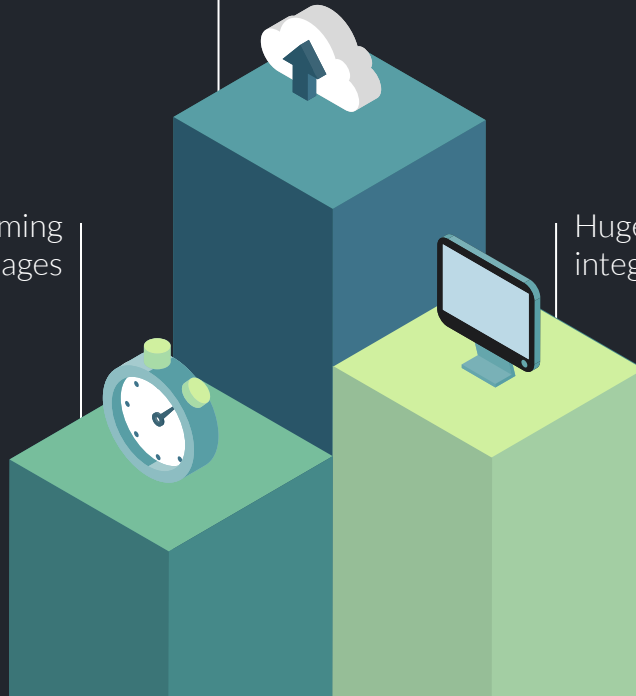
## Features



Analyse 27 programming  
languages

Industry Standard:  
More than 100,000  
organisations use it

Huge support of  
integration





## CONCLUSION

“Continuous [Code] Inspection is a holistic, fully-realized process designed to make internal code quality an integral part of the software development life cycle.”

sonarsource

Take-away  
message

**testing**

has intrinsic limitations

**code inspection**

within CI allows to  
overcome those limitations

**sonarqube**

is one of the most used tool  
to accomplish that



# THANKS FOR LISTENING

Does anyone have any questions?

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