

Defensive Coding in Java

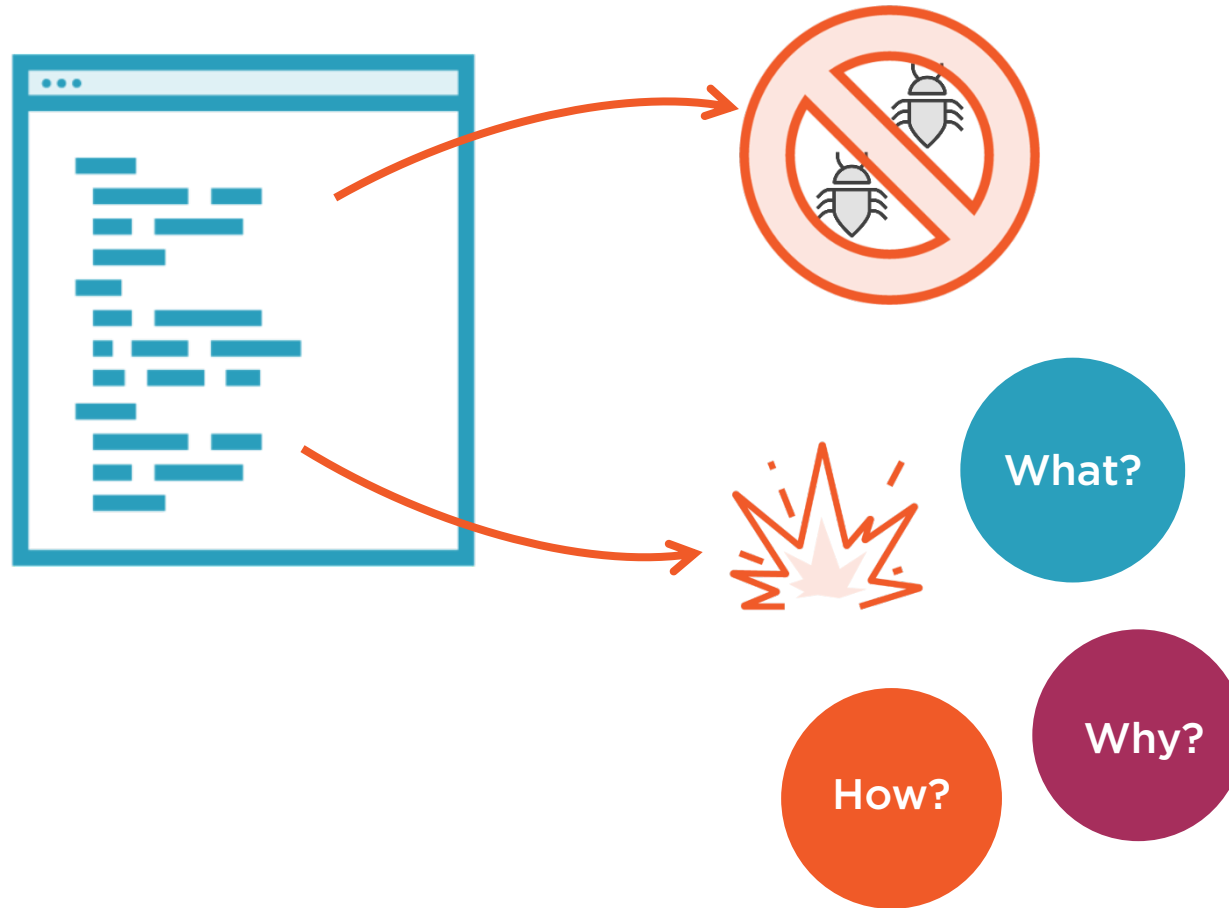
WHY DEFENSIVE CODING MATTERS



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TEST AUTOMATION ENGINEER





Defensive Coding

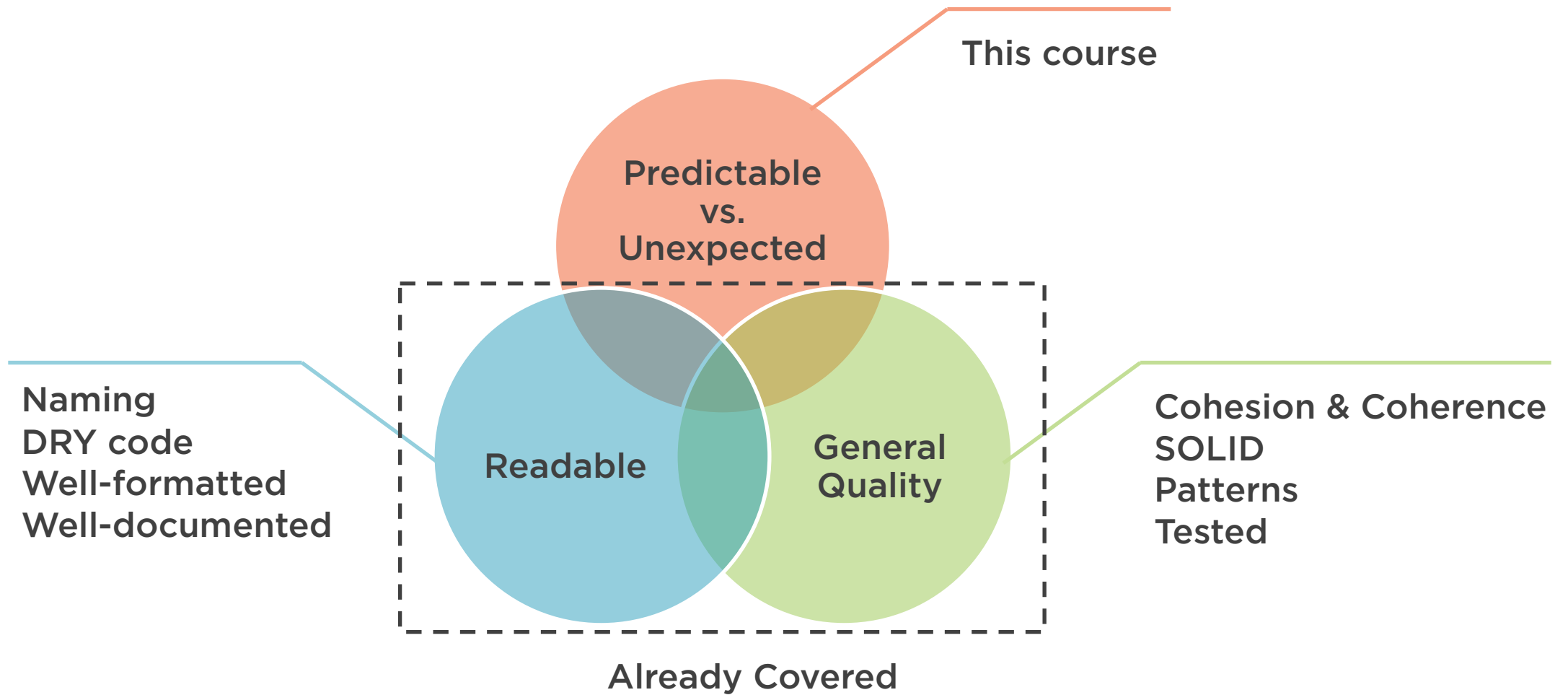


Defensive Coding (Programming)

Defensive programming is an approach to improve software and source code, in terms of:

- **General quality** – reducing the number of software bugs and problems.
- Making the source code comprehensible – the source code should be **readable and understandable** so it is approved in a code audit.
- Making the software behave in a **predictable** manner despite **unexpected** inputs or user actions.





Defensive Coding (DS)

Java: Refactoring Best Practices

Java: Writing Readable and
Maintainable Code

SOLID Software Design
Principles in Java



Defensive Coding



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Why?

What?

Defensive Coding

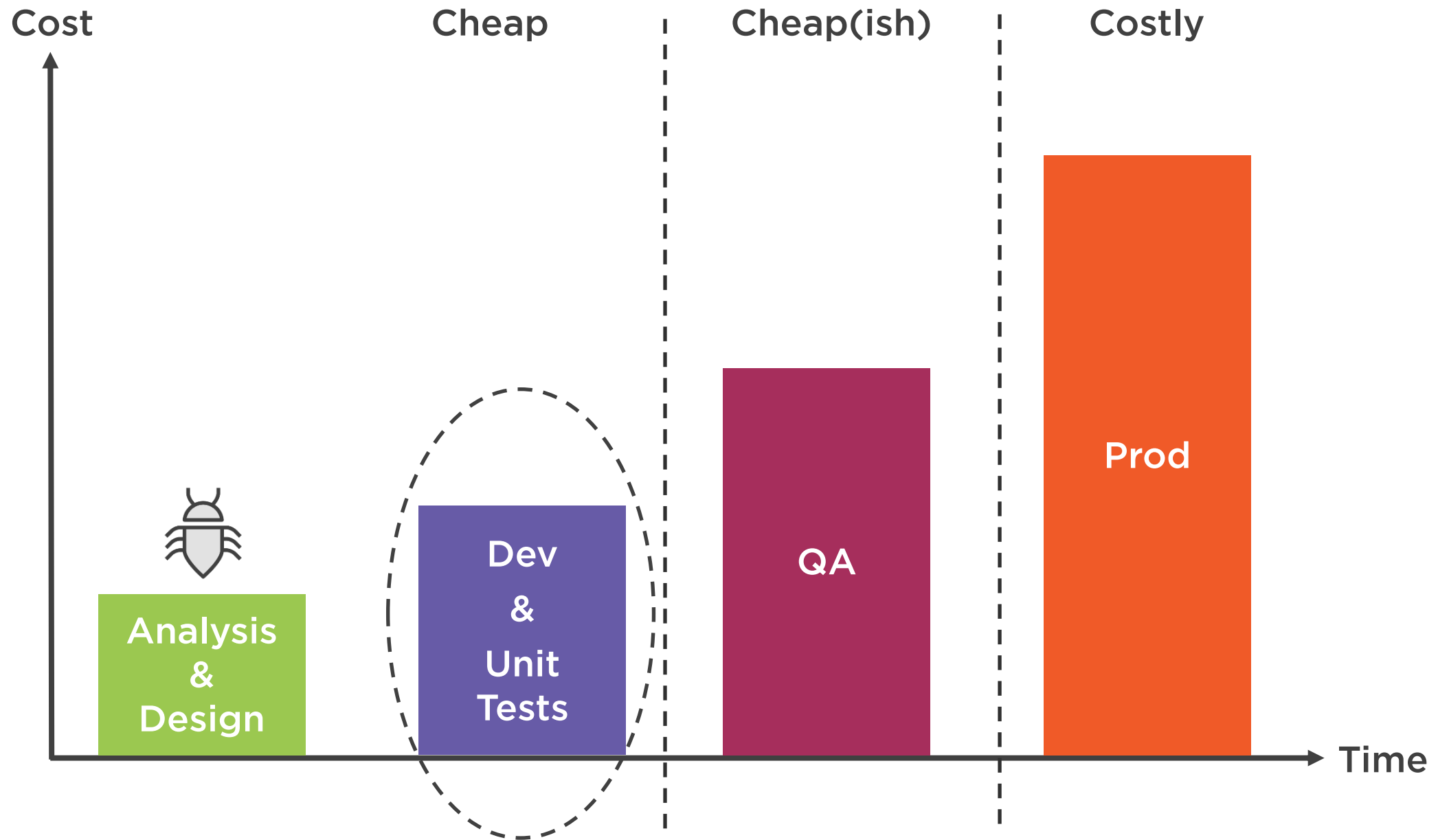
How?



“The whole point of defensive programming is guarding against errors you don’t expect. ”

Steve McConnell, Code Complete





The sooner we find a bug,
the better



Defensive coding is all about:

- 1) Reacting early
- 2) Preventing



React

Prevent



Prerequisites

Java and OOP

Any IDE



Course Overview

Validating Method Input

**Using Frameworks
for Validation**

**Improving Method
Return Values**

**Using Other Defensive
Coding Practices**

