

# Testing Workflow

Video 3.3

# What you will learn in this video

## Theory:

- Why testing is important
- Different types of tests

## Practice:

- Implement the testing part of a CI workflow

## Why testing?

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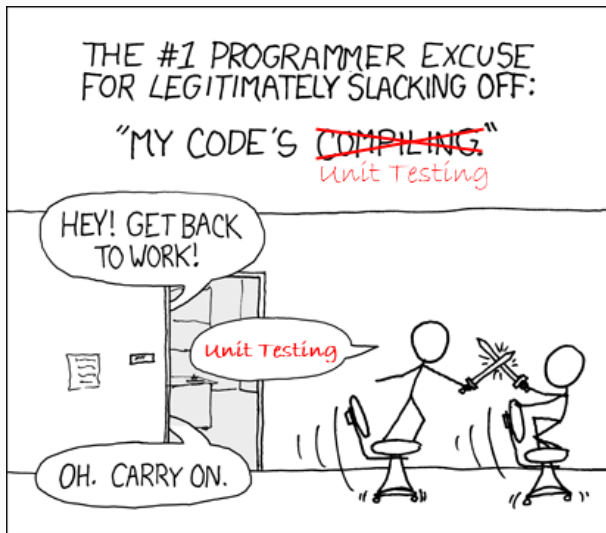
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- Testing **reduces** the risk of **regression bugs** in software releases
- Unit testing alone contributes to **removing 30% of bugs** [McConnell, Software Estimation: Demystifying the Black Art]

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- **Security tests:** test security issues (e.g. security updates applied)

# CI Workflow: Demo

**maven**

Build, Test, Package, and Deploy



Notify



slack

Trigger Job



# CI Workflow: Demo

**maven**

Build, Test, Package, and Deploy

1. Set up a build trigger



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# CI Workflow: Demo

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**3. Build breaks**

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**2. Commit a code change**

**4. Fix code and commit**

# CI Workflow: Demo

**maven**

3. Build breaks

5. Build passes

Build, Test, Package, and Deploy

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- **Polling must die**: <http://kohsuke.org/2011/12/01/polling-must-die-triggering-jenkins-builds-from-a-git-hook/>



# Next Video

Video 3.4 Notification workflow

