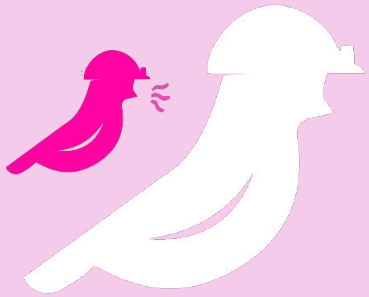

PIT MutationMate

PIT MutationMate

Team

Software Developers

Liam

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Scrum Master

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PIT MutationMate

What's mutation testing?

"Testing your test to test that they test what you think they test."

→ assess the efficacy of your test suite

→ identify how you can improve your tests

```
public static boolean isPositive(int n){
    if(n > 0){
        return true;
    }
    else {
        return false;
    }
}
```

```
@Test
public void testIsPositiveWithPositive(){
    assertTrue(Compare.isPositive( n: 5));
}

@Test
public void testIsPositiveWithNegative(){
    assertFalse(Compare.isPositive( n: -3));
}
```

PIT MutationMate

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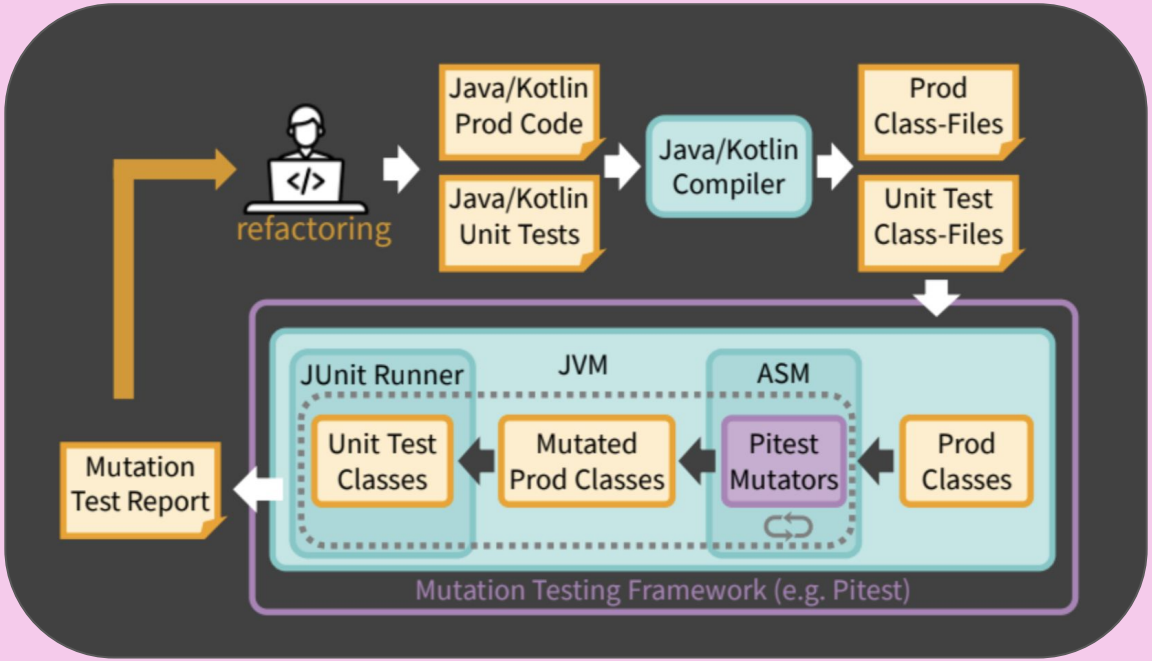
What's mutation testing?

Mutation testing is less about testing
the quality of your code.
It's for checking the quality of your tests.

Pitest

A popular mutation testing system for Java/JVM languages



Source: esolutions

Workflow without our plugin

1. Run Pitest from command line
2. Locate generated report file
3. Open and view HTML report

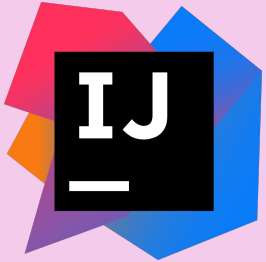
Problem: developer is forced to switch contexts

What's our use case?

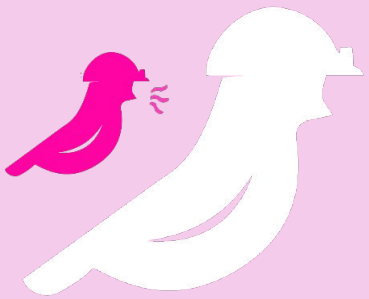
→ Enabling easier mutation testing when using Pitest

pitest.org

Our plugin



IntelliJ IDE

Live presentation of plugin

Thank you for your attention!