Agile Testing
with a
Side of TDD
April 5, 2014

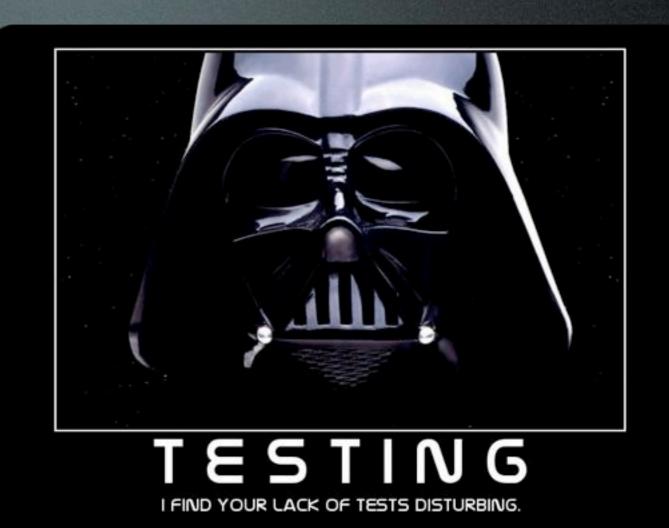


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Who Am I?

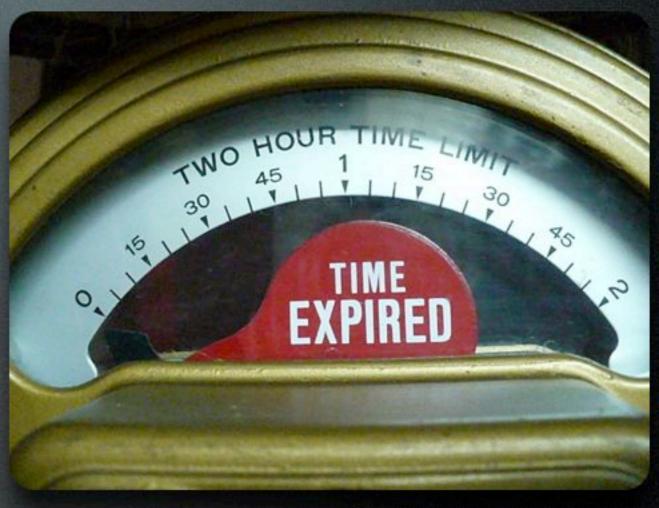
- Jenna Pederson
- Programmer-geek, developer coach
- Twitter: @jennapederson
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Agenda

- What is agile testing?
- What is TDD?
- Why is it effective?
- The TDD workflow
- Wrap up & questions

Traditional Testing verify and validate

Test Until
Time
Runs Out
and time always
runs out



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Agile Testing build quality in up front

Embrace Change

"The only constant in software is change"

Feedback Early & Often

- End of iteration demos
- Pair programming
- TDD, ATDD
- Retrospectives
- CI build results

- Discoveries during exploratory testing
- Collaboration with users and customers
- Information radiators
- Usability testing

"Everybody Tests"

everybody is responsible for quality



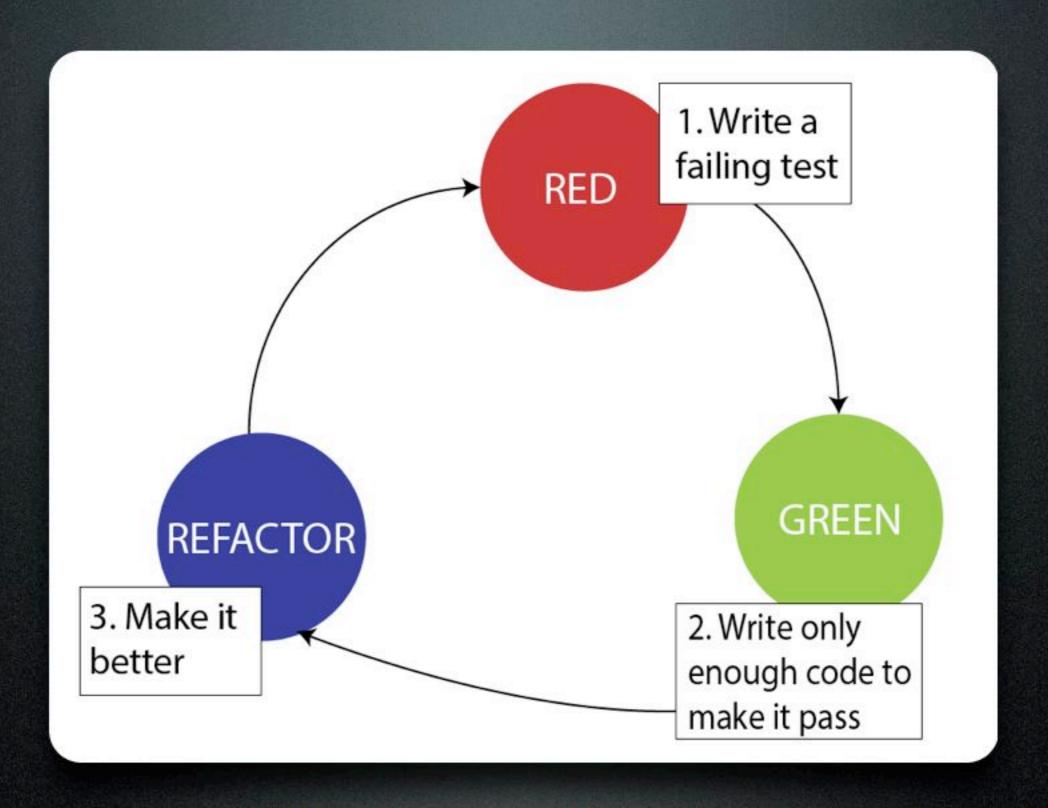
What is TDD?

Make it work, make it better

Three Laws of TDD

Uncle Bob Martin

- 1. You may not write production code until you have written a failing unit test.
- 2. You may not write more of a unit test than is sufficient to fail, and not compiling is failing.
- 3. You may not write more production code than is sufficient to pass the currently failing test.



The Flow

TDD is a skill



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Why is TDD effective?

Why should I (let my dev team) do this?

Proactive

vs. Reactive

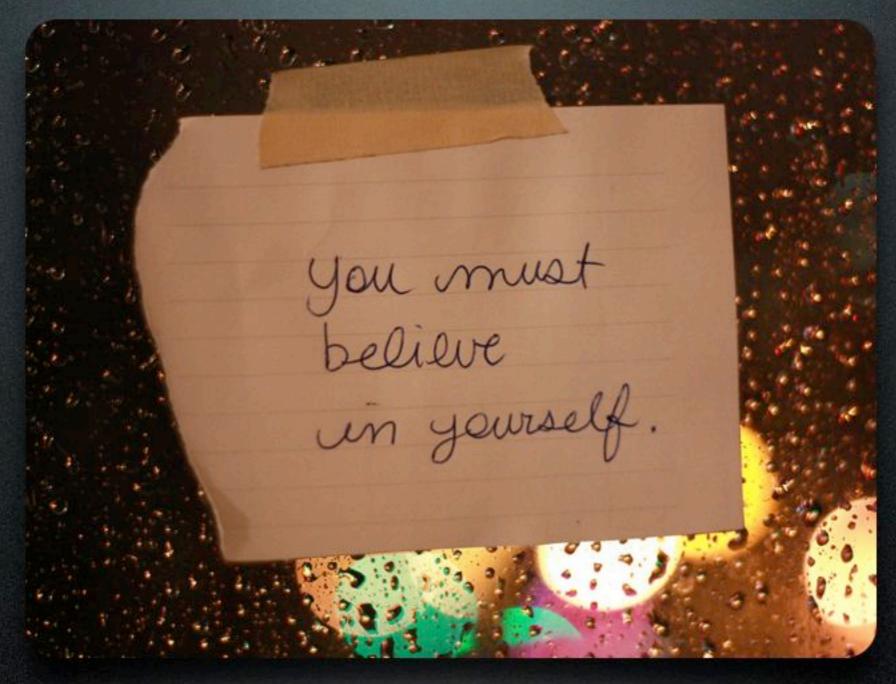
Features Become Cheaper



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Promotes Good Design & Clean Code

```
101
102
103
         * Tests the {@link FileUtils#getFile(String...)} method.
104
105
        public void testGetFile() {
106
            File expected_A = new File("src");
107
            File expected B = new File(expected A, "main");
108
            File expected C = new File(expected B, "java");
109
            assertEquals("A", expected_A, FileUtils.getFile("src"));
110
            assertEquals("B", expected_B, FileUtils.getFile("src", "main"));
111
            assertEquals("C", expected C, FileUtils.getFile("src", "main", "java"));
112
113
                FileUtils.getFile((String())null);
114
                fail("Expected NullPointerException");
115
            } catch (NullPointerException e) {
116
                // expected
117
118
119
120
121
         * Tests the {@link FileUtils#getFile(File, String...)} method.
122
123
        public void testGetFile Parent() {
124
            File parent = new File("parent");
125
            File expected_A = new File(parent, "src");
126
            File expected_B = new File(expected_A, "main");
127
            File expected_C = new File(expected_B, "java");
            assertEquals ("A", expected A. FileUtils, getFile(parent, "arc"));
```



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Confidence

The TDD Workflow

Examples

Thank You!

Twitter: @jennapederson

Blog: www.612softwarefoundry.com/blog

Code & Resources

https://github.com/jennapederson/agiletesting-with-a-side-of-tdd