

TEST DRIVEN DEVELOPMENT

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_SKYNYRD



SKYNYRD



KENT BECK '03

"REDISCOVERY"



TEST DRIVEN DEVELOPMENT
AGILE MANIFESTO
EXTREME PROGRAMMING



FAIL TO SUCCESS ???

TDD

A close-up photograph of a tabby cat's face. The cat has brown and black striped fur, green eyes, and its mouth is open, showing its pink tongue and white teeth. The background is a soft, out-of-focus beige color. Overlaid on the cat's face is the text "WRITE A FAILING TEST!" in a bold, sans-serif font. The word "WRITE" is yellow, "A" is yellow, "FAILING" is red, and "TEST!" is yellow.

WRITE A FAILING TEST!

The background is a blurred photograph of a silver laptop on a desk. A tabby cat is curled up on the laptop, its head resting near the keyboard. The word "IMPLEMENT" is overlaid in a large, yellow, stylized font across the center of the image.

IMPLEMENT

The background of the image is a vibrant sky. At the top, a bright sunburst radiates light across a clear blue sky. Below this, there are large, billowing clouds. The lower portion of the image is dominated by a deep red and orange glow, suggesting a sunset or sunrise. The overall effect is one of intense light and color.

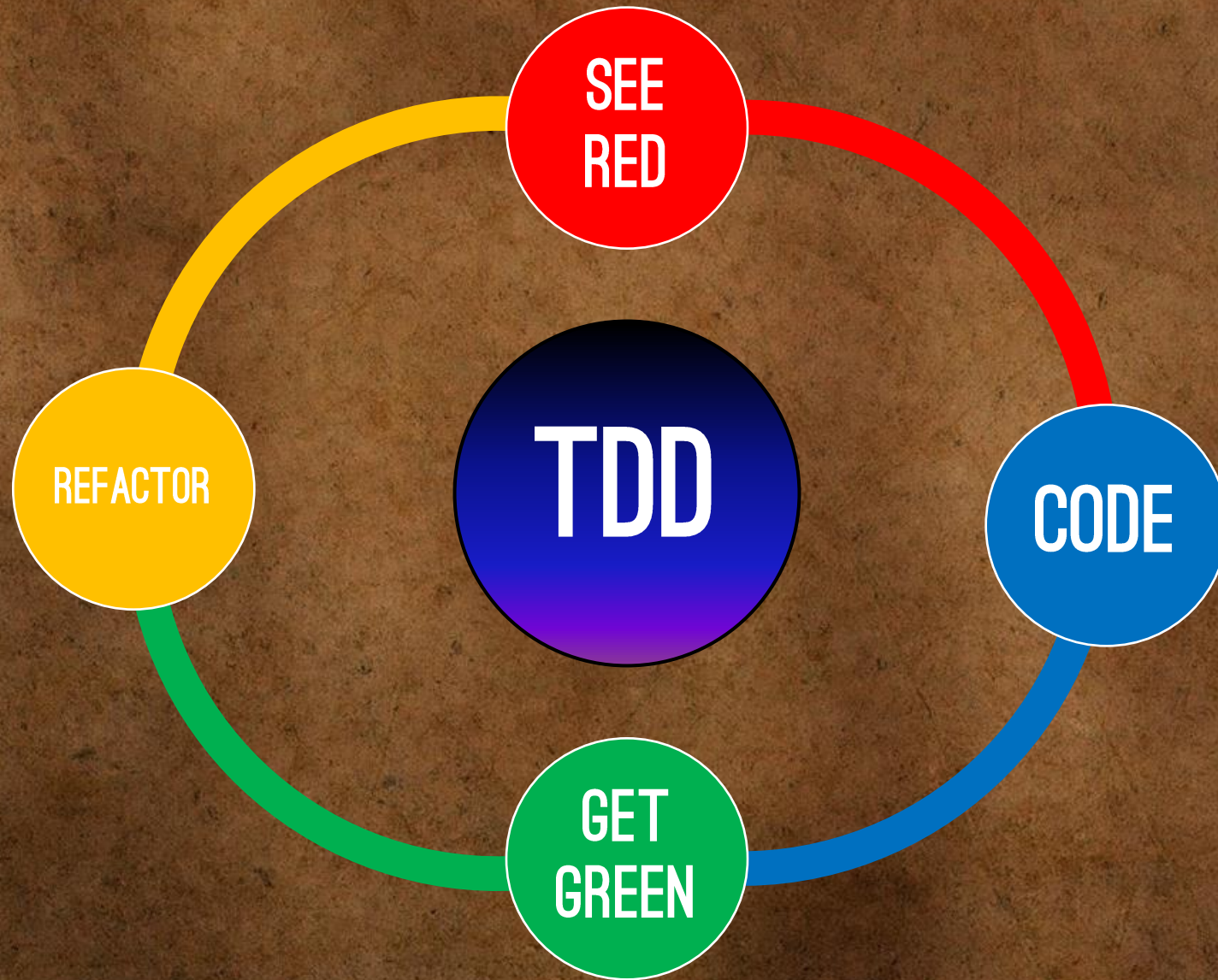
PASSED ???

REFACTOR

From messy

To clear

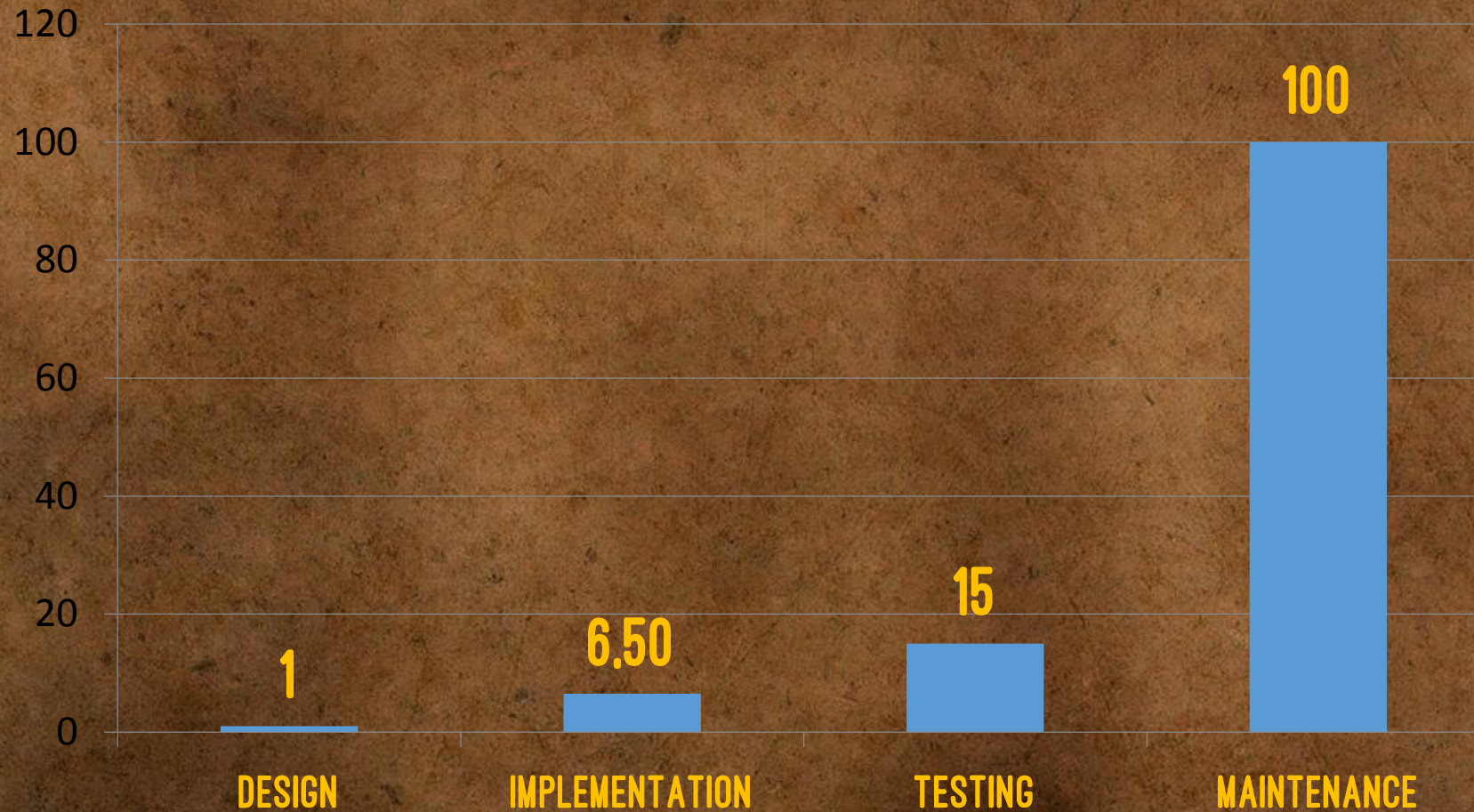




WHY



TIME TO FIX BUGS



TEST COVERAGE

The background of the slide features a network of thin yellow lines connecting various points, overlaid with several large, semi-transparent green circles that create a complex, abstract pattern.

EASY EVOLUTION

&

ADAPTATION



BEST PRACTICES

TDD



BDD

CONTINUOUS INTEGRATION
AGILE FRAMEWORKS

TOOLS

UNIT TESTING FRAMEWORKS

```
[TestFixtureSetUp]
public void TestFixtureSetUp() {
    result = SomeHelperClass.GetResult();
}
```

```
[Test]
public void the_result_should_be_true() {
    result.ShouldBeTrue();
}
```

EXAMPLES: NUNIT & SHOULDLY FOR .NET

MOCKING LIBRARIES

```
public void Foo() {  
    var mockObject = new Mock<SampleClass>();  
  
    mockObject  
        .Setup(object => object.Bar())  
        .Returns(whatIWantForTest);  
}
```

EXAMPLE: MOQ FOR .NET

LET'S DIVE IN...



REFERENCES

MARTIN FOWLER ARTICLES

[HTTP://MARTINFOWLER.COM/BLIKI/TESTDRIVENDEVELOPMENT.HTML](http://martinfowler.com/bliki/TestDrivenDevelopment.html)

[HTTP://MARTINFOWLER.COM/ARTICLES/IS-TDD-DEAD/](http://martinfowler.com/articles/is-tdd-dead/)

KENT BECK'S BOOK

[HTTP://WWW.EECS.YORKU.CA/COURSE_ARCHIVE/2003-04/W/3311/SECTIONM/CASE_STUDIES/MONEY/KENTBECK_TDD_BYEXAMPLE.PDF](http://www.eecs.yorku.ca/course_archive/2003-04/W/3311/sectionm/case_studies/money/kentbeck_tdd_byexample.pdf)

HEPSIBURADA TEAM

[HTTPS://GITHUB.COM/HEPSIBURADA](https://github.com/hepsiburada)