

Discovering the Need for TDD



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Pretest



Name 3 types of automated tests

What should you test?

Name characteristics of a good test



Types of Software Testing



Unit testing

Integration testing

Performance testing

Usability testing

Acceptance testing

Regression testing



Testing Frameworks



How to Talk Testing



Suite

Spec

Assertion

Matcher

Test runner

```
function welcomeMessage (first_name = "Friend") {  
  return (`Welcome, ${first_name}!`);  
}
```

welcomeMessage.js



```
describe("welcomeMessage") {  
  
}
```

welcomeMessage.spec.js



```
describe("welcomeMessage") {  
  it("concat welcome and a name when passed a name") {  
  
  }  
}
```

welcomeMessage.spec.js

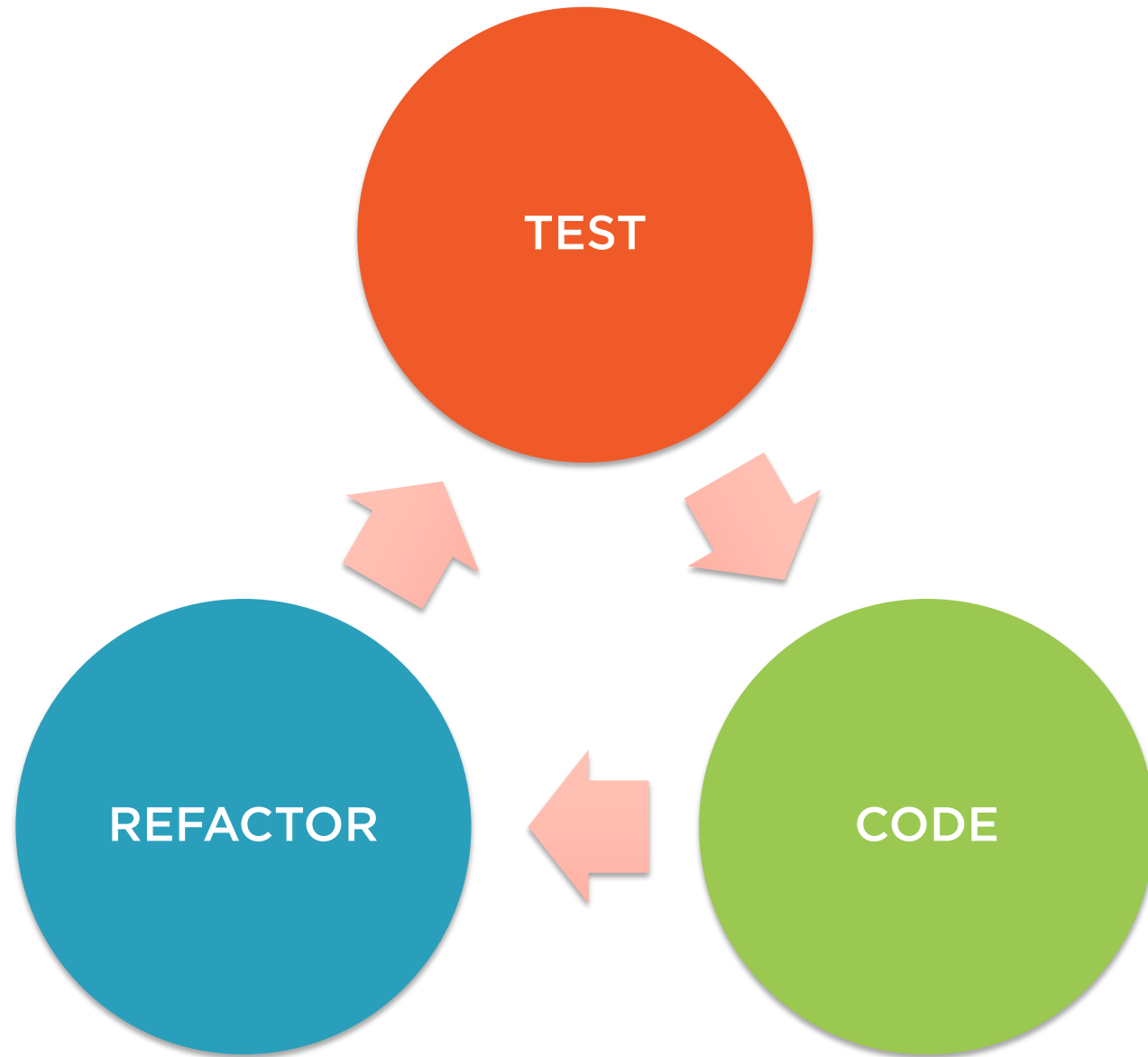



```
describe("welcomeMessage"){  
  it("concat welcome and a name when passed a name"){  
  
    let expected = "Welcome, Chris!";  
    let actual = welcomeMessage("Chris");  
    expect(actual).toEqual(expected);  
  
  }  
}
```

welcomeMessage.spec.js



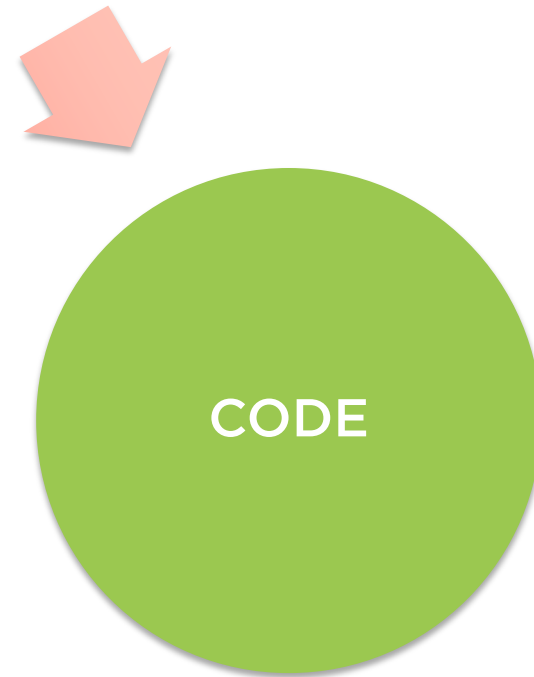
TDD Cycle



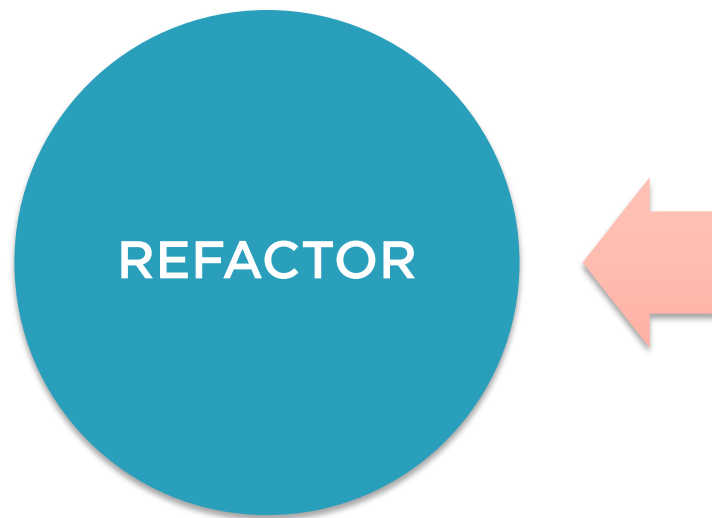
TDD Cycle



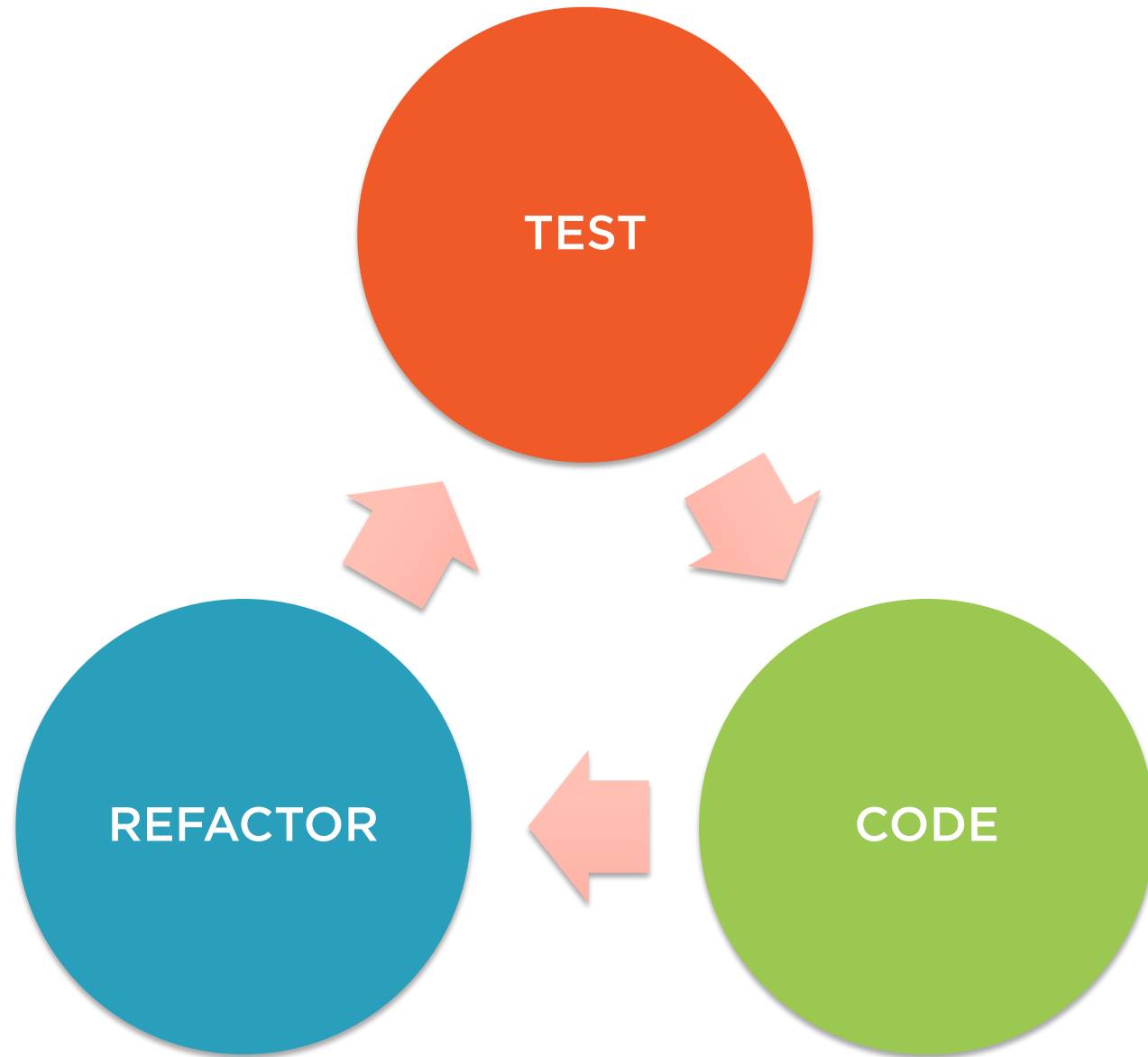
TDD Cycle



TDD Cycle



TDD Cycle



What Should You Test?



Does it render?

Does it render correctly?

Does it handle events correctly?

Do conditionals work?

Are edge cases handled?

What Makes a Good Test?



Each test should be independent of the others

Any behavior should be specified in only one test

No unnecessary assertions

Test only one code unit at a time

Avoid unnecessary preconditions

Store Locator Requirements

Display a map

Select a shop

Marker shows location

User can search

Detect user location

Get directions

Scalable



Demo



From requirement to test



Demo



From test to code



Demo



Refactor and repeat



Discovering the Need for React

COMING UP NEXT



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