



### Testing in Agile

- In Agile, the primary purpose of testing is feedback.
- The goal of the tester is to make sure the customer is receiving the value and the quality they need.
- We test as early, as often, and as much as possible.
- Quality is the responsibility of the Team, not the Tester.

## Agile Testing

#### Why do we test?

Support The Team Critique the Product

What forces drive our testing?

Business Technology

#### Agile Testing

#### Why do we test?

Support The Team Critique the Product

What forces drive our testing?

Business Technology

#### **Business Facing Tests**

Are we building the right thing?

Are we building the building?

Are we building the thing right?

Everything else!

Support The

**Technology Facing Tests** 

4

Product

Critique the

### The 4 Quadrants of Agile Testing

#### **Business Facing Tests**

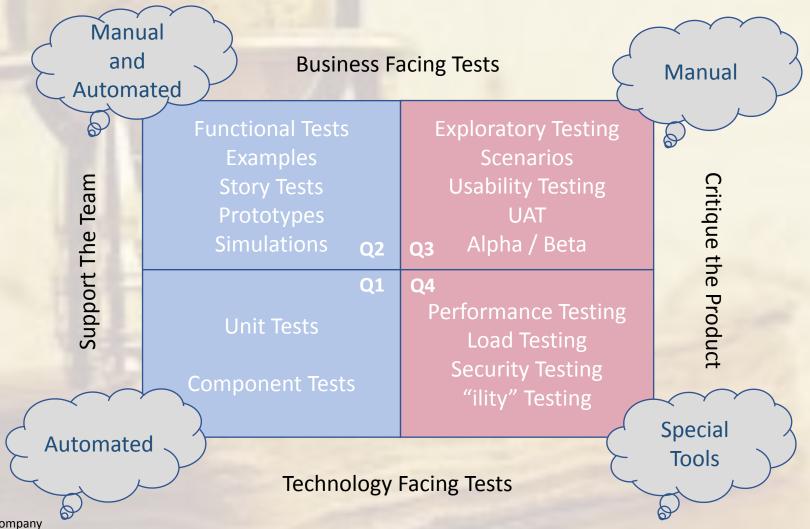
Support The Team

**Exploratory Testing** Examples Scenarios **Usability Testing** UAT Prototypes Alpha / Beta Q3 Q2 Q1 Q4 Performance Testing **Unit Tests** Load Testing Security Testing "ility" Testing

Critique the Product

Technology Facing Tests

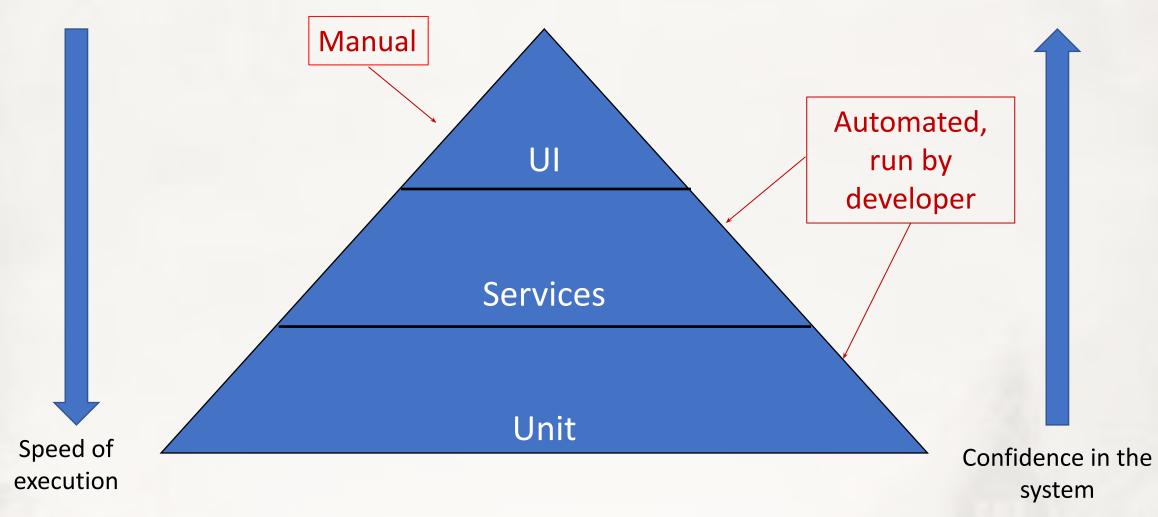
### **Testing Tools and Automation**



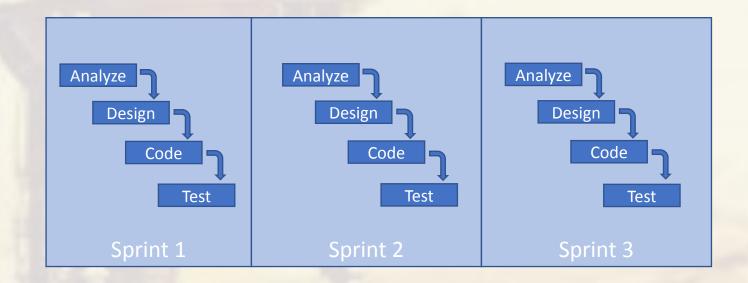
# A Good Test Plan has Tests from All Four Quadrants

Q1	1	Are we building it right?
Q2	2	Are we building the right thing?
Q3	3	Does our customer like it?
Q4	4	What else?

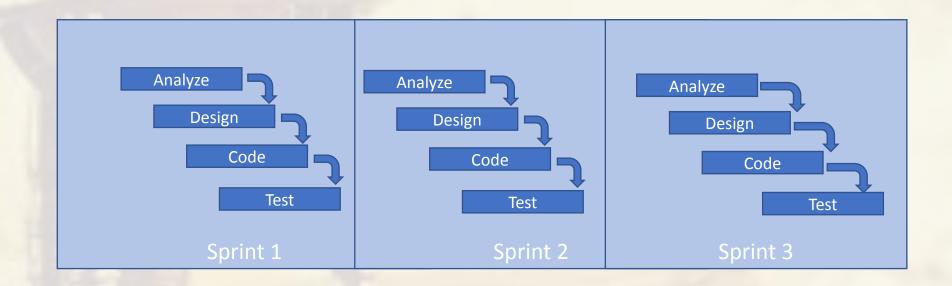
#### The Testing Pyramid



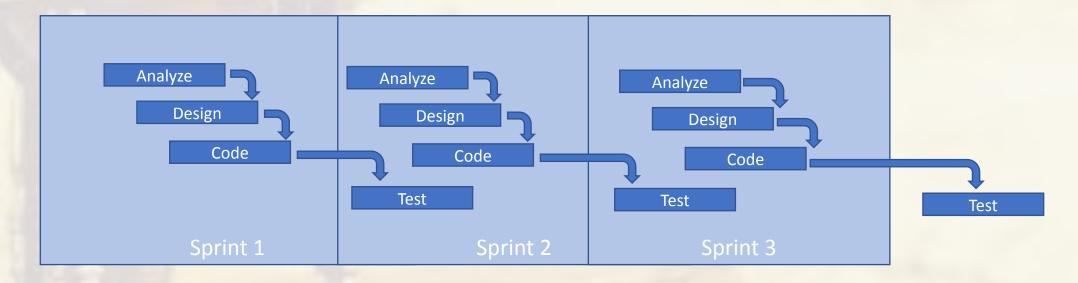
#### What Scrum Isn't ...

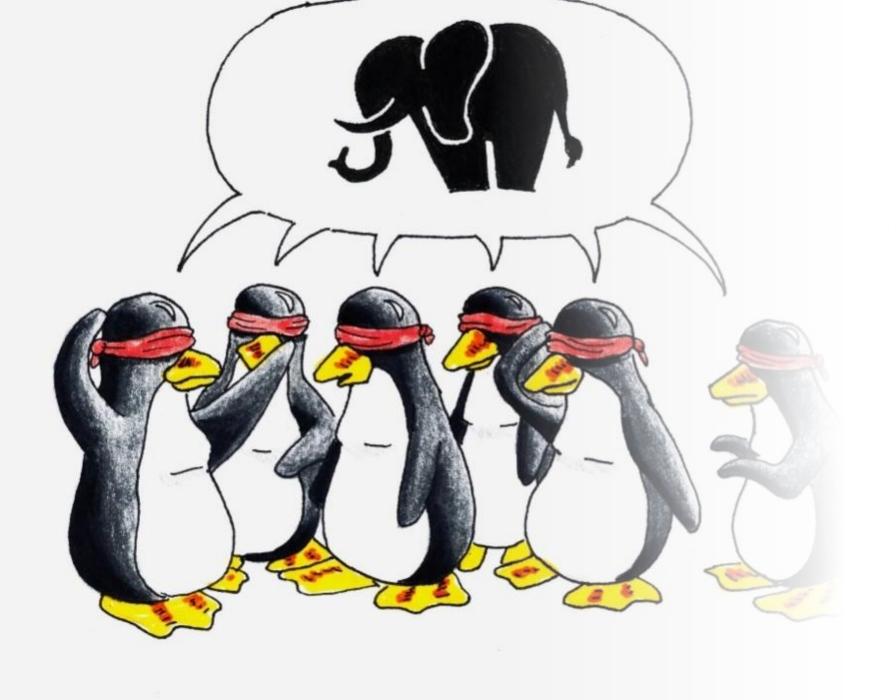


### "Solution" 1: Lengthen the Sprint



## "Solution" 2: Move Testing to the Next Sprint





The goal of REFINING is to develop a shared understanding

- What is needed?
- Why is it needed
- How big is it?

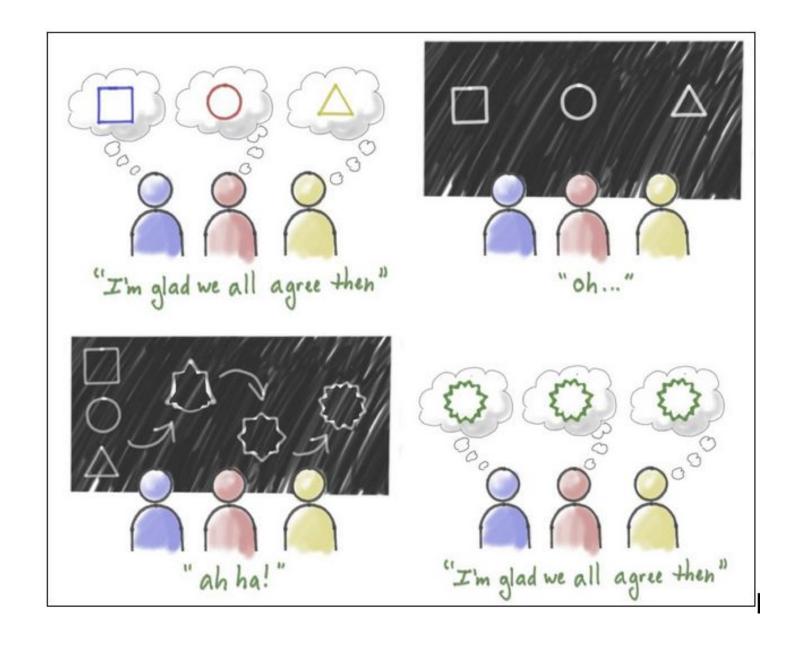
# Why is it Needed?

## **Bank accounts** Account ≎ **BUSINESSSELECT CHKG BUSINESS SAVINGS** My Checking Acct Tori Checking Acct My Savings Account Will Savings

**Tori Savings Acct** 

Account Number: 1234

Routing Number: AB - CD



We don't need a better document.

We need a shared understanding

Credit for this illustration goes to ThoughtWorks' Luke

Barret. Jeff Paton drew these illustrations based on Luke's.

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```
it (typeof console.markTimeline == 'undefined') {
   module.verbose('Mark timeline not available, normalizing events');
   window.console.markTimeline = function() {};
consoleClear: function() {
 module.debug('Disabling programmatic console clearing');
 window.console.clear = function() {};
requestAnimationFrame: function() {
 module.debug('Normalizing requestAnimationFrame');
 if(window.requestAnimationFrame === undefined) {
   module.debug('RequestAnimationFrame not available, normalizing event
   window.requestAnimationFrame = window.requestAnimationFrame
        window.mozRequestAnimationFrame
        window.webkitRequestAnimationFrame
        window.msRequestAnimationFrame
        function(callback) { setTimeout(callback, 0); }
```



## Walkthrough 1: ArrayList



## Activity 1: Movie Stars

Create an ArrayList of the team's favorite movie stars

When the list is complete, print it

#### Restriction

- 1. All input is to be from the console
- 2. Output is to be one name per line

Bonus: Is there a simple way to print the names in alphabetical order?

### Testing

