

**Esri Developer Summit**

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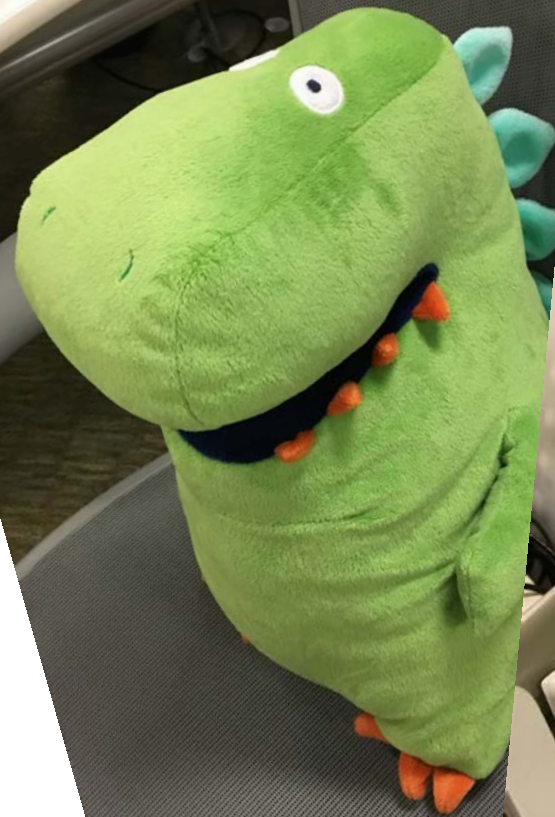
# JavaScript Applications for the Enterprise: Test More, Work Less

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George Bochenek

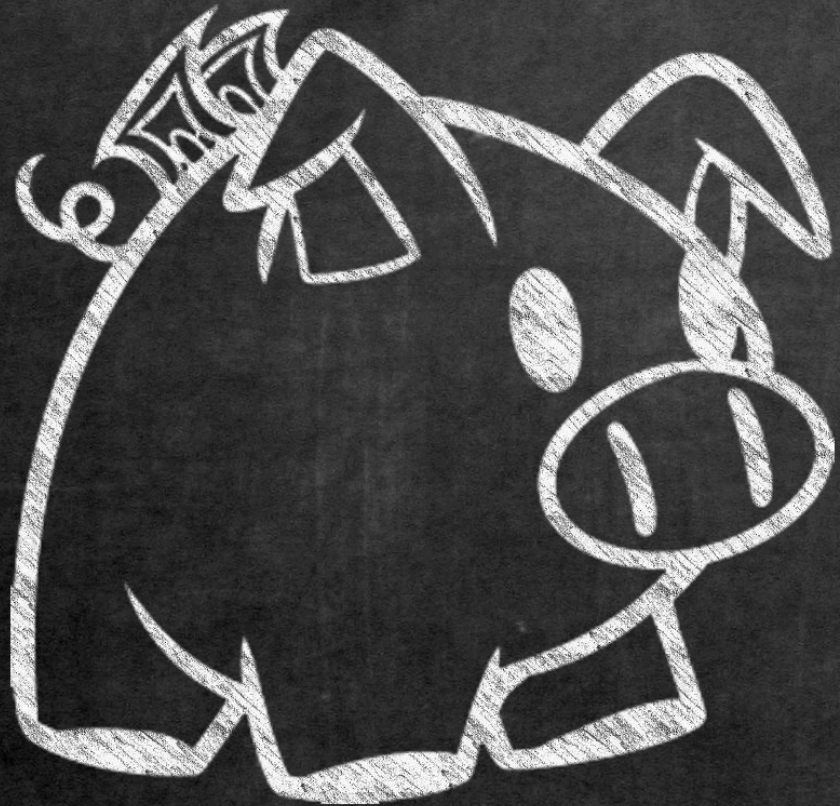
Randy Jones







# Money











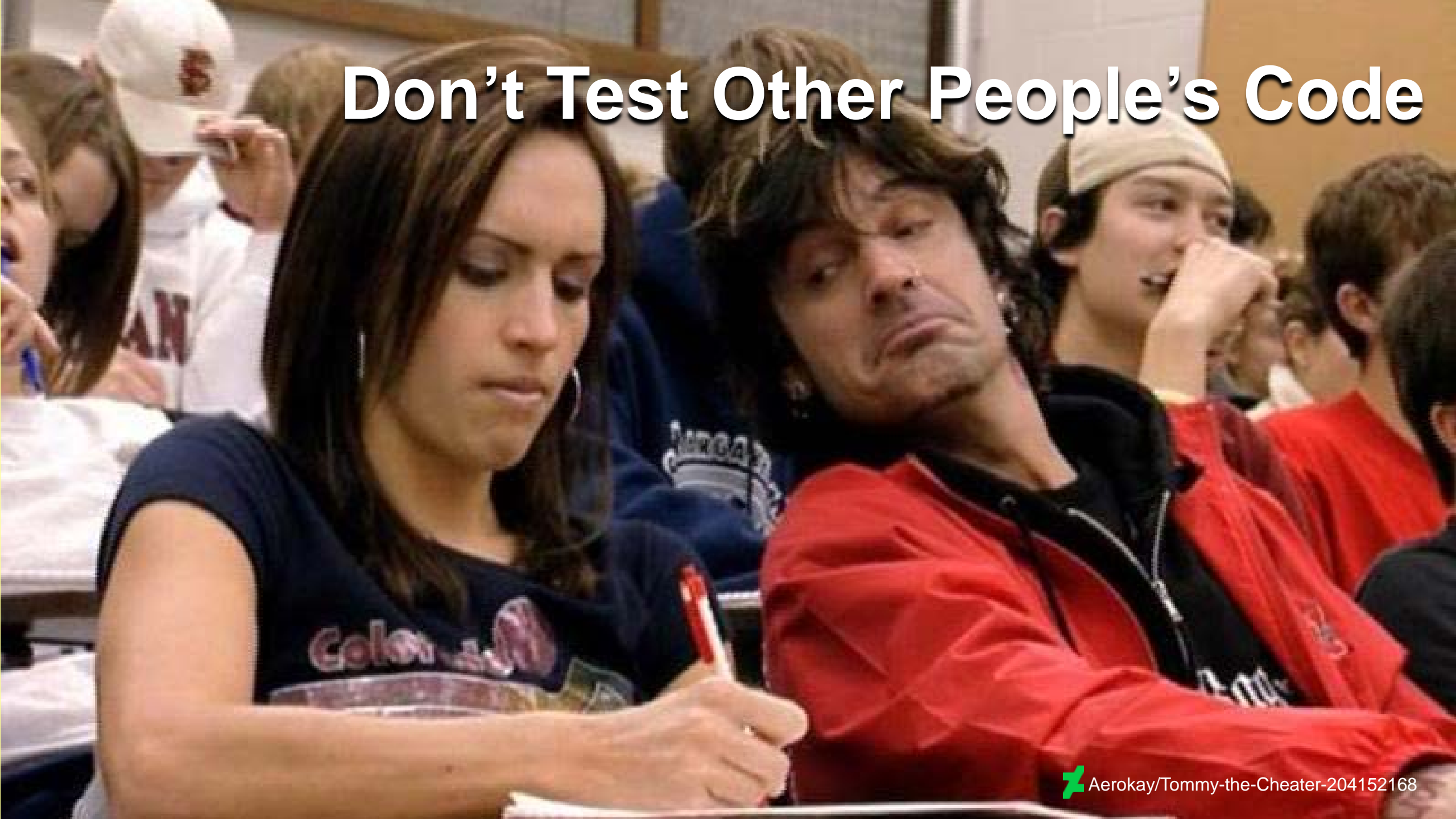


# Unit Testing





**Don't Test Other People's Code**





# Spies and Fakes





```
var map = {  
  graphics: {clear:function() {graphicsCleared = true;}},  
  infoWindow: {hide:function() {hiddenInfoWindow = true;}},  
  addLayer: function(Layer){lastLayerAdded = layer}  
};
```

```
var graphicsCleared, hiddenInfoWindow, lastLayerAdded;
```



# Encapsulation





# Functional Testing







**Intern.**

**Sinon.JS**



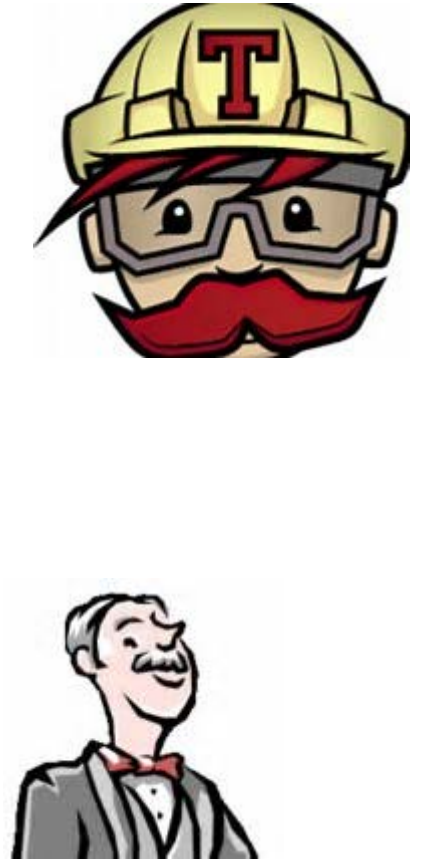
**KARMA**



**Jasmine**



# Continuous Integration





# How do we Test?

- Write Code**
- Write Test**
- Write code, break test**
- Rewrite Test**

# Test Driven Development

**Write Test**

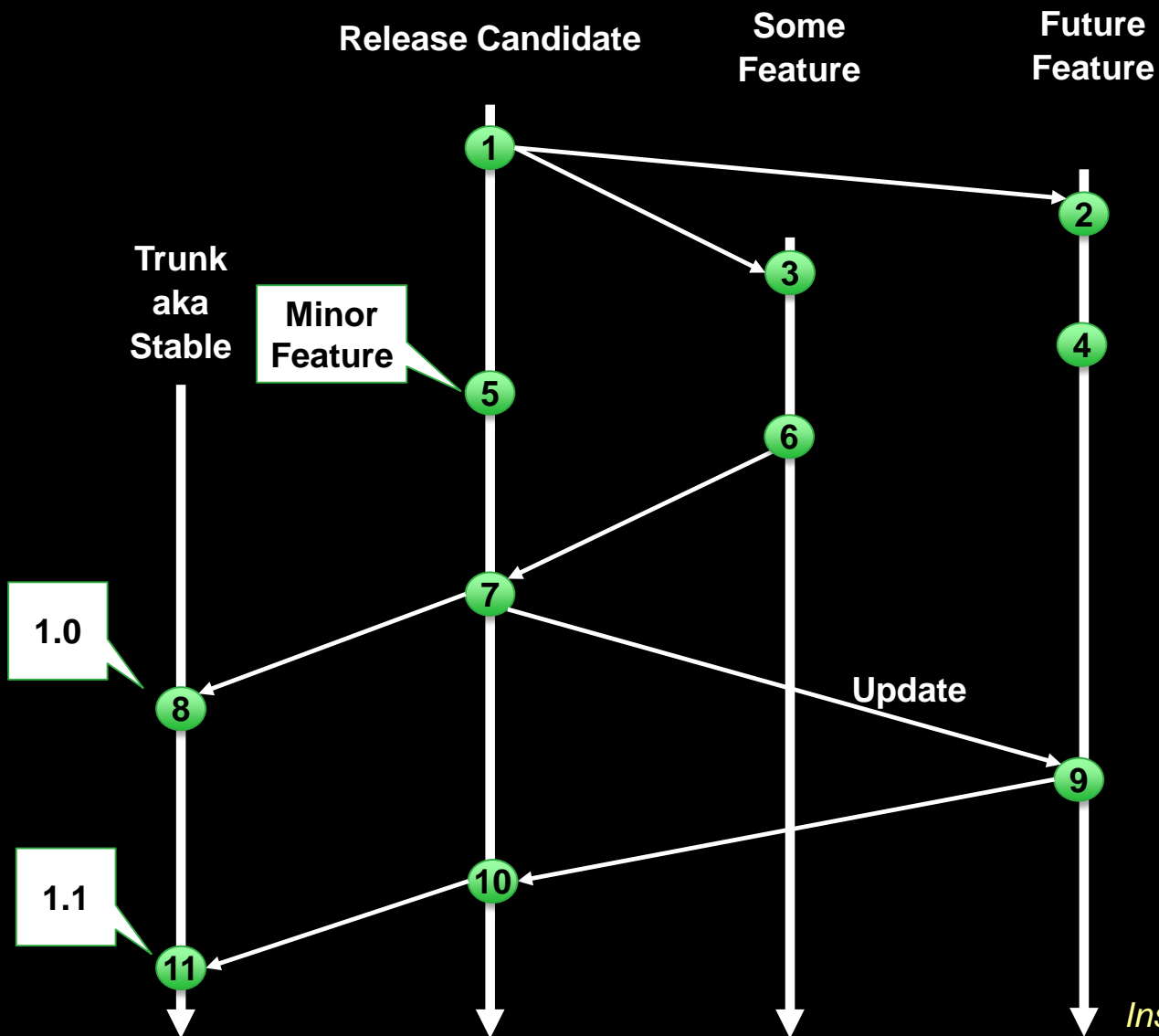
**Test Fails**

**Write code till passes**

**Refactor**



Time



# Source Control

Inspired from <https://gist.github.com/digitaljhelms/4287848>

# Resources

<https://github.com/Esri/enterprise-build-sample-js>

JavaScript Mapping Applications - Testing Tools and Patterns

[http://video.esri.com/watch/4281/javascript-mapping-applications-\\_dash\\_-testing-tools-and-patterns](http://video.esri.com/watch/4281/javascript-mapping-applications-_dash_-testing-tools-and-patterns)



