

W3

Test Automation Wednesday, May 2nd, 2018 11:30 AM

Automated Testing: Beyond the Basics

Presented by:

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Guidepost Systems

Brought to you by:



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Jim Holmes

Guidepost Systems

Jim Holmes is an executive consultant at Pillar Technology where he works with organizations to improve their software delivery process. he is also the owner/principal of Guidepost Systems which lets him engage directly with struggling organizations. Since joining the US Air Force in 1982, Jim has been in various corners of the IT world. He has worked with organizations—ranging from start-ups to Fortune 10 companies—to improve their delivery processes and ship better value to their customers. When not at work, you may find Jim in the kitchen with a glass of wine, playing Xbox, hiking with his family, or banished to the garage while practicing his guitar.

Automated Testing

Beyond The Basics

Slides: SpeakerDeck.com/JimHolmes

A Story of Woe

ENTHUS IASM



TIME

What's YOUR Current State?

Slow

Brittle

High Maintenance Cost

WITHWBWH

What The FHECK is Tested By What Where How

Trust Deficit

Automation's Goals?

FAST FEEDBACK LOOPS

- X

WEET.

SAFET



Teams Test!

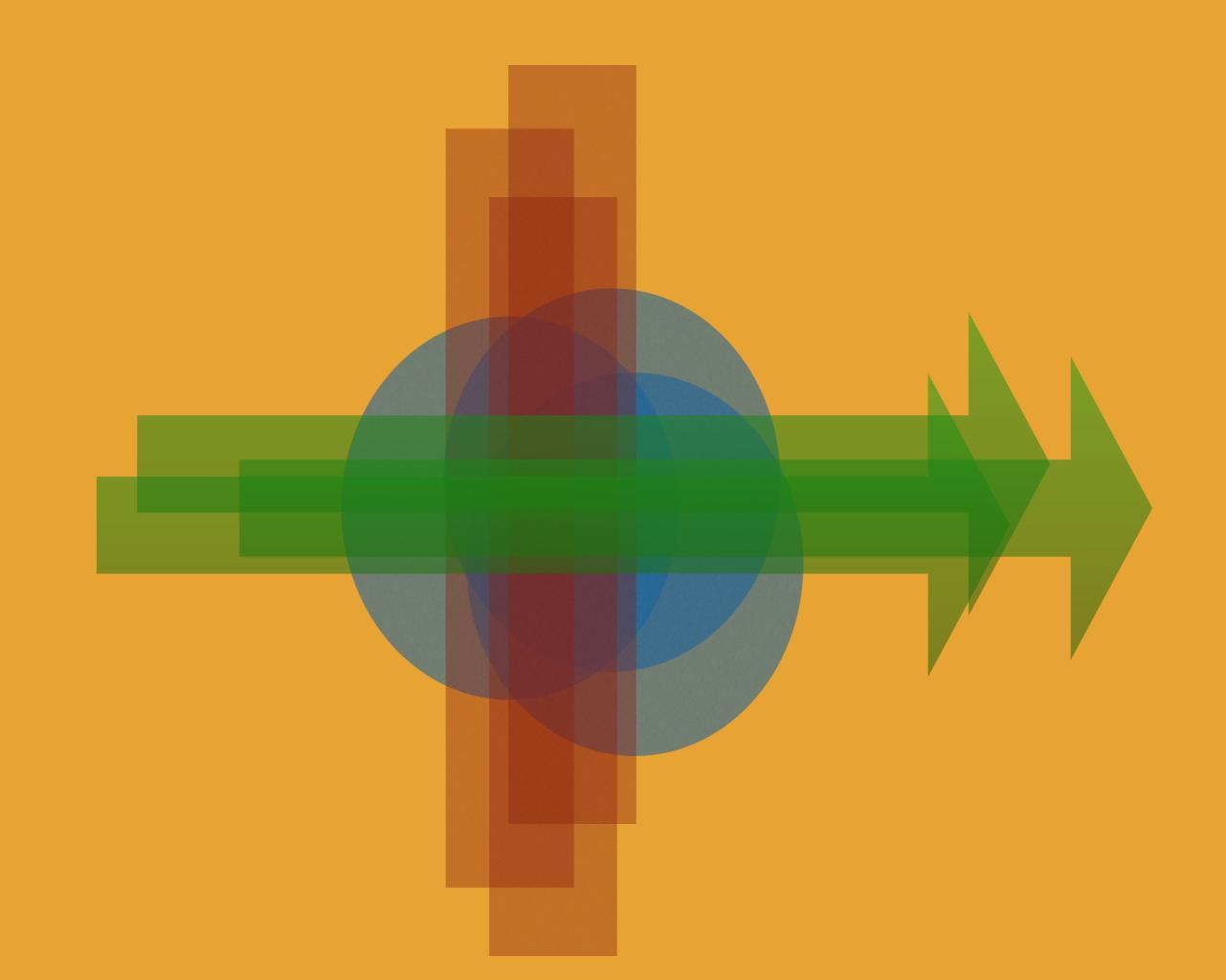
Let's Talk Fixes

First and Foremost: Be Thoughtful

Good Coverage

Reduce Overlap

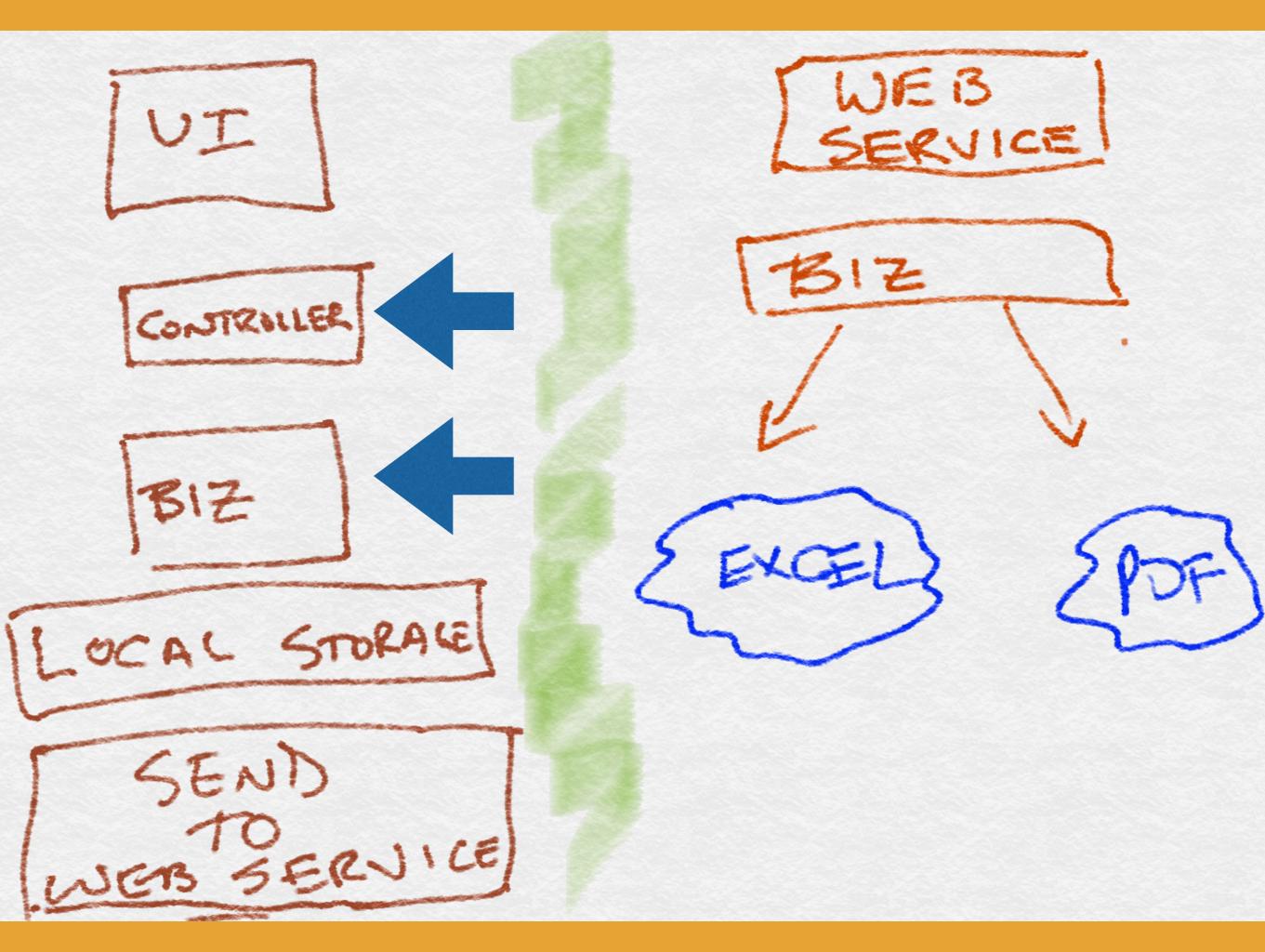


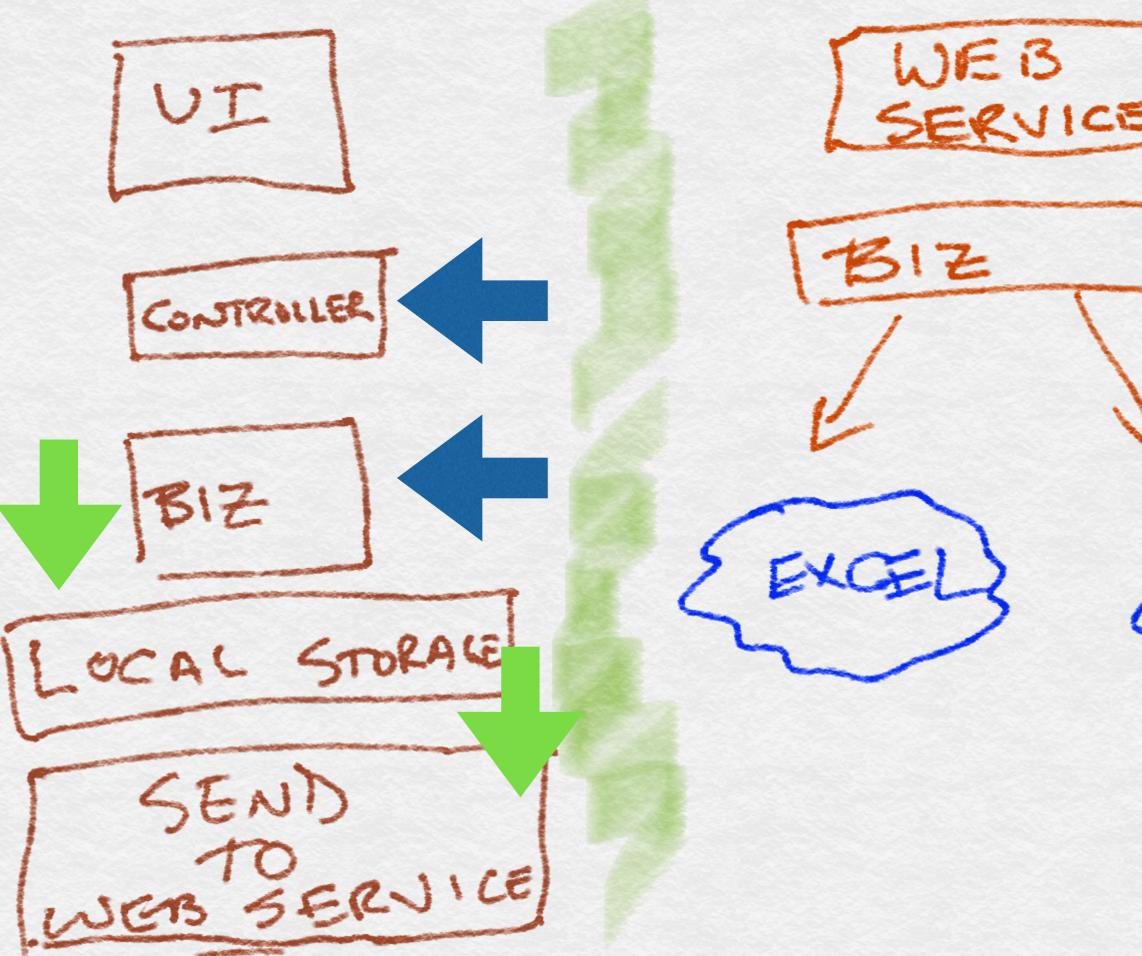


Understand Data Flows

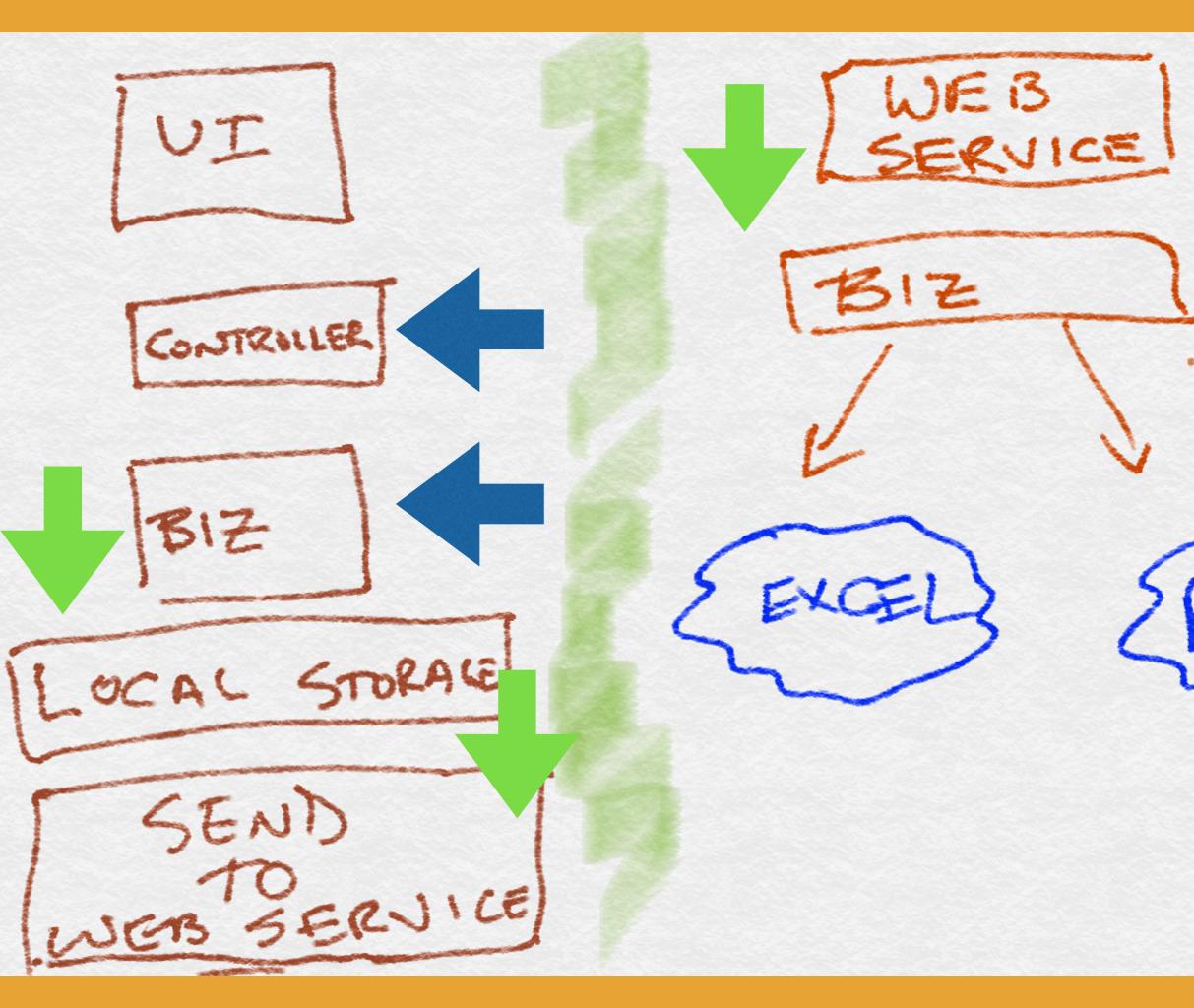
CONTRALLER LOCAL SEND WEB SERVICE

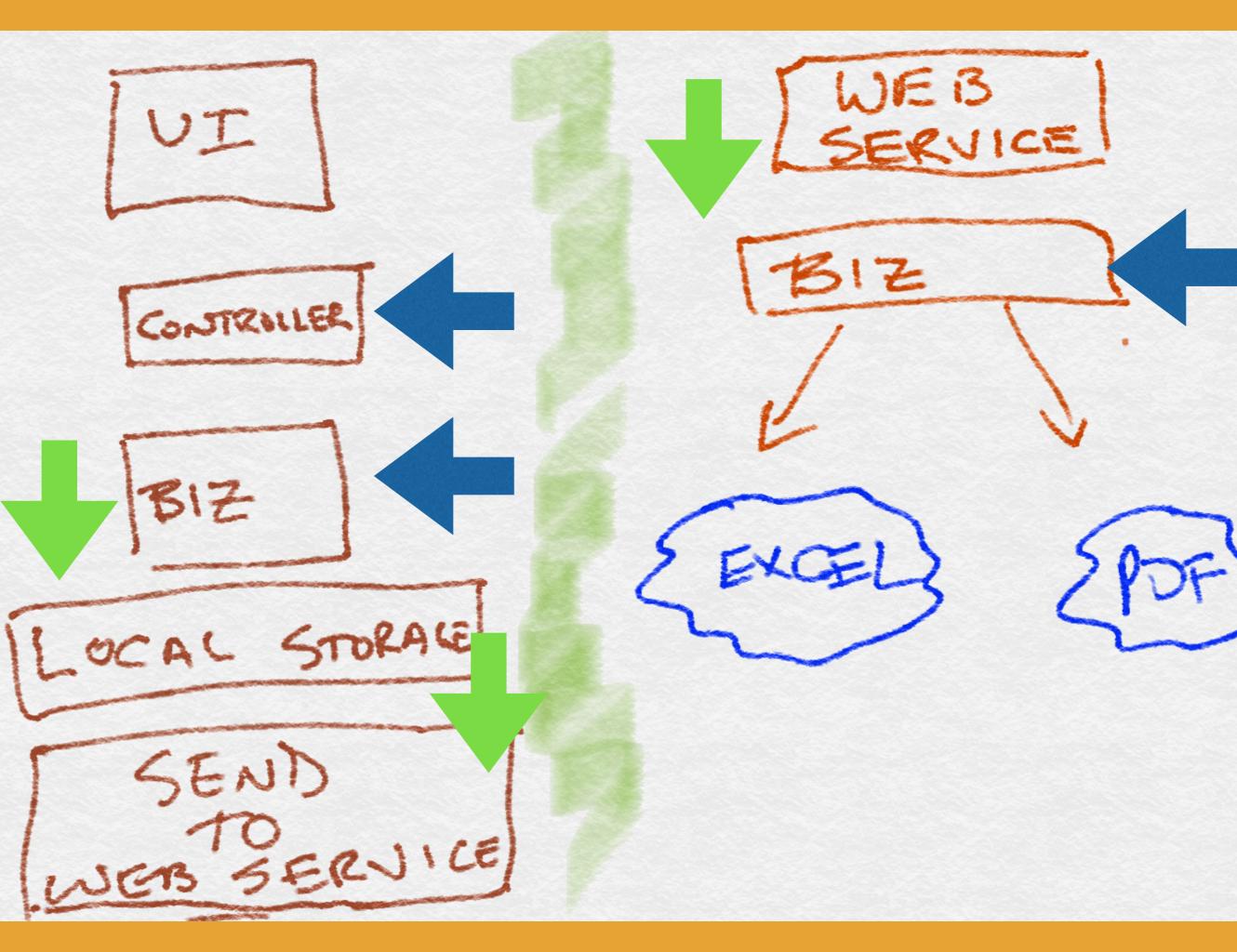
WEB SERVICE

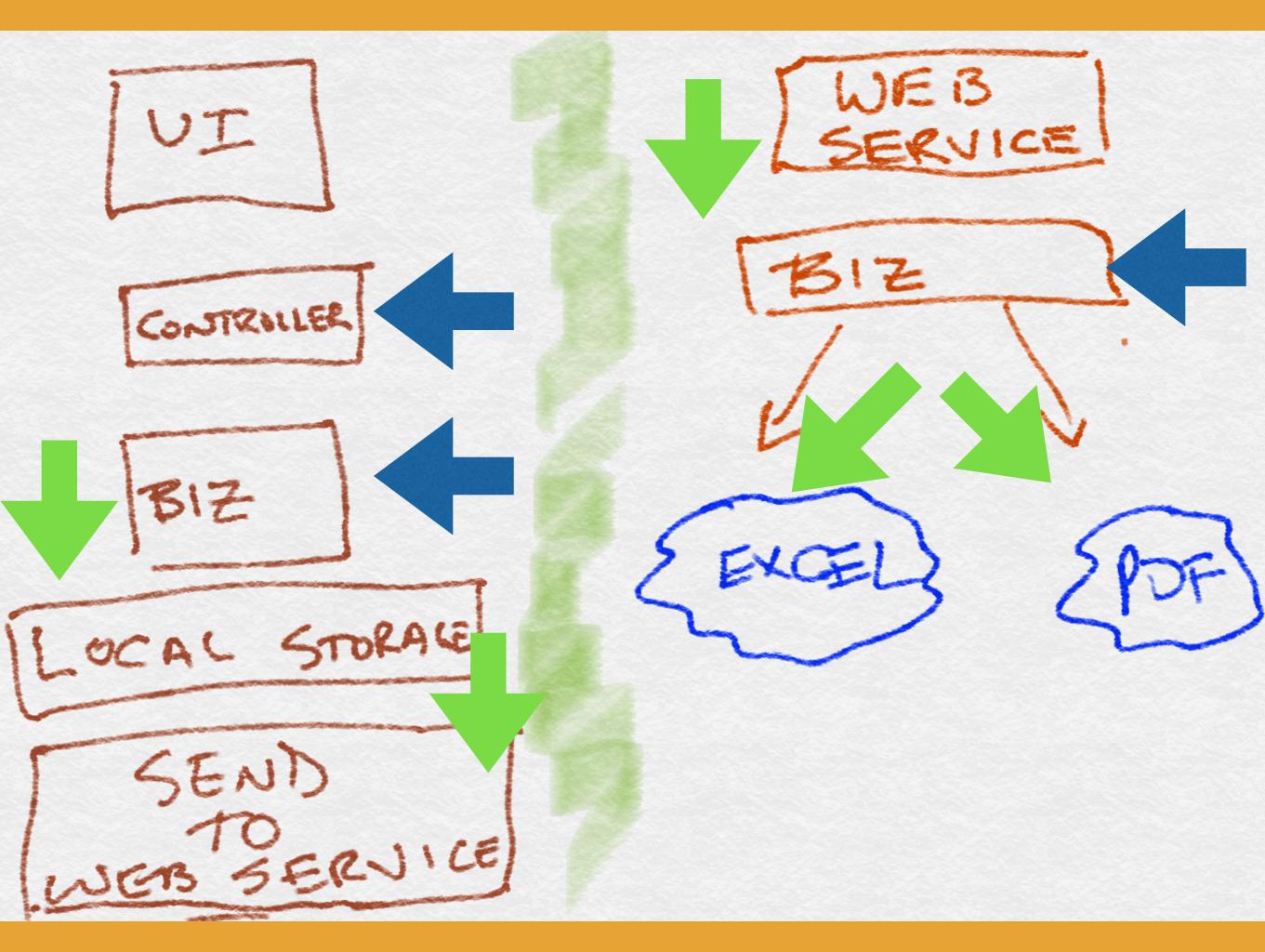




SERVICE







MORE TALK!

Don't Test Stupid Stuff

Don't Test Low Value Less Optimal Stuff That Someone's Already Tested Or Is a Dependency You Don't Want

Gmail

3rd Party Controls

CAPCHA

SharePoint

Test Code is Production Code!

Software Craftsmanship

DRY

Don't Repeat Yourself

SRP

Single Responsibility Principle

Cucumber => Step Definitions

CopyProductCatalogItem EditProductCatalogItem DeleteProductCatalogItem TransmitBookingOrder HandleRejectedBookingOrder WashJimsCar **FixJimsCar** ReplaceJimsCarEngineWithRocket

CopyProductCatalogItem GetAProductItem

EditProductCatalogItem
GetAProductItem

DeleteProductCatalogItem
GetAProductItem

Domain Objects

ProductCatalogItem BookingOrder **JimsCar** CarEngine RocketAdapter CasketForJim

ProductCatalogItem GetAProductItem

LogUserOn FindUserName UserName.SendText("Jim")

CheckUserIsLoggedOn
FindUserName
UserName=="Jim"

CheckInvalidUserCan'tLogOn FindUserName UserName.SendText("B0b")

Page Objects

LogonPage UserName

LogUserOn LogonPage.UserName="Jim" CheckUserIsLoggedOn "Jim" == LogonPage.UserName CheckInvalidUserCan'tLogOn LogonPage.UserName="B0b"

Test Data

Don't Use Ul Tests to Set up or Configure

Baseline Datasets

Store Datasets in Version Control!

Custom APIs

Help tests be granular, random, and independent

Support APIs leverage existing system APIs

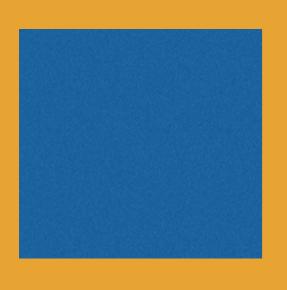
Create Retrieve Update Delete

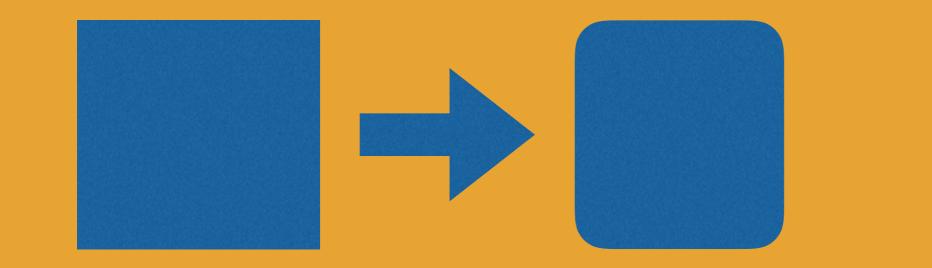
Setup and Teardown

Oracles

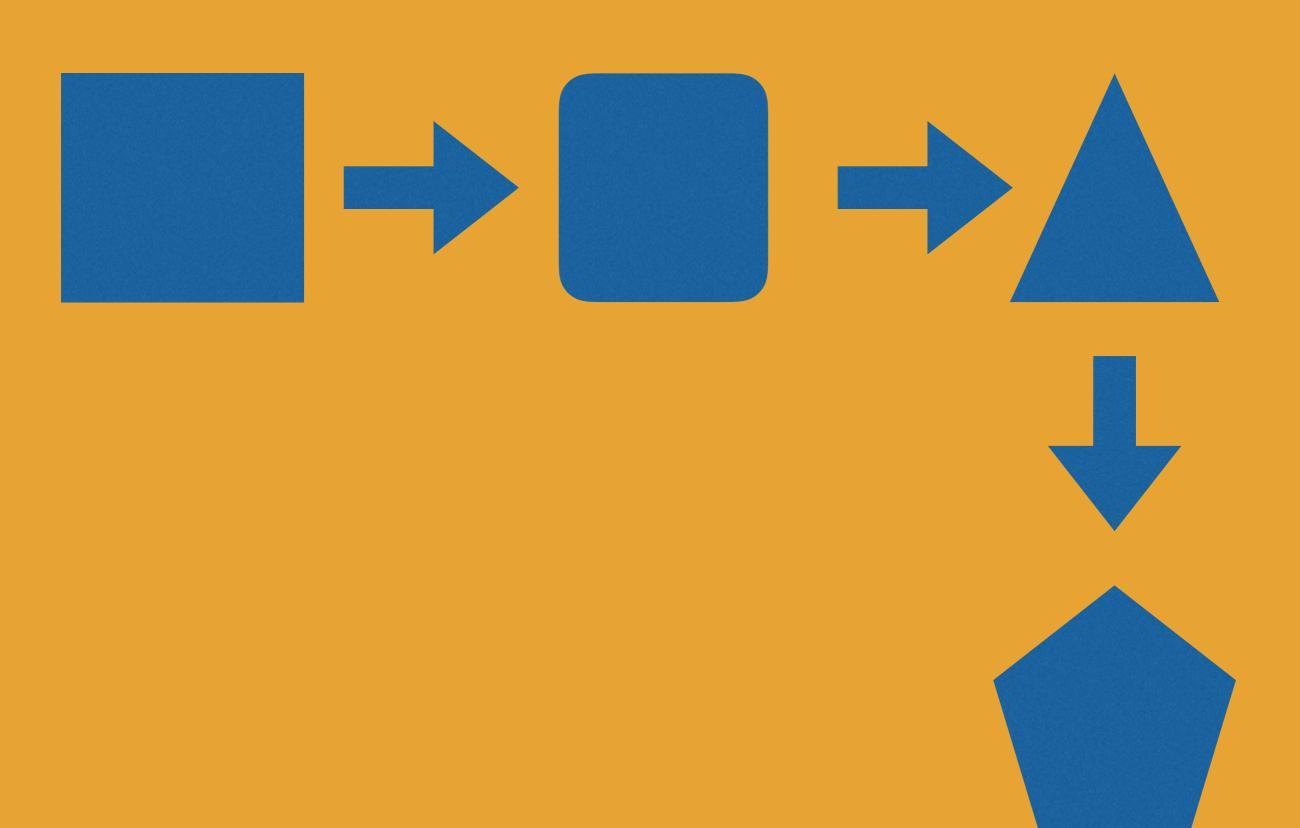
FSAPITBAA

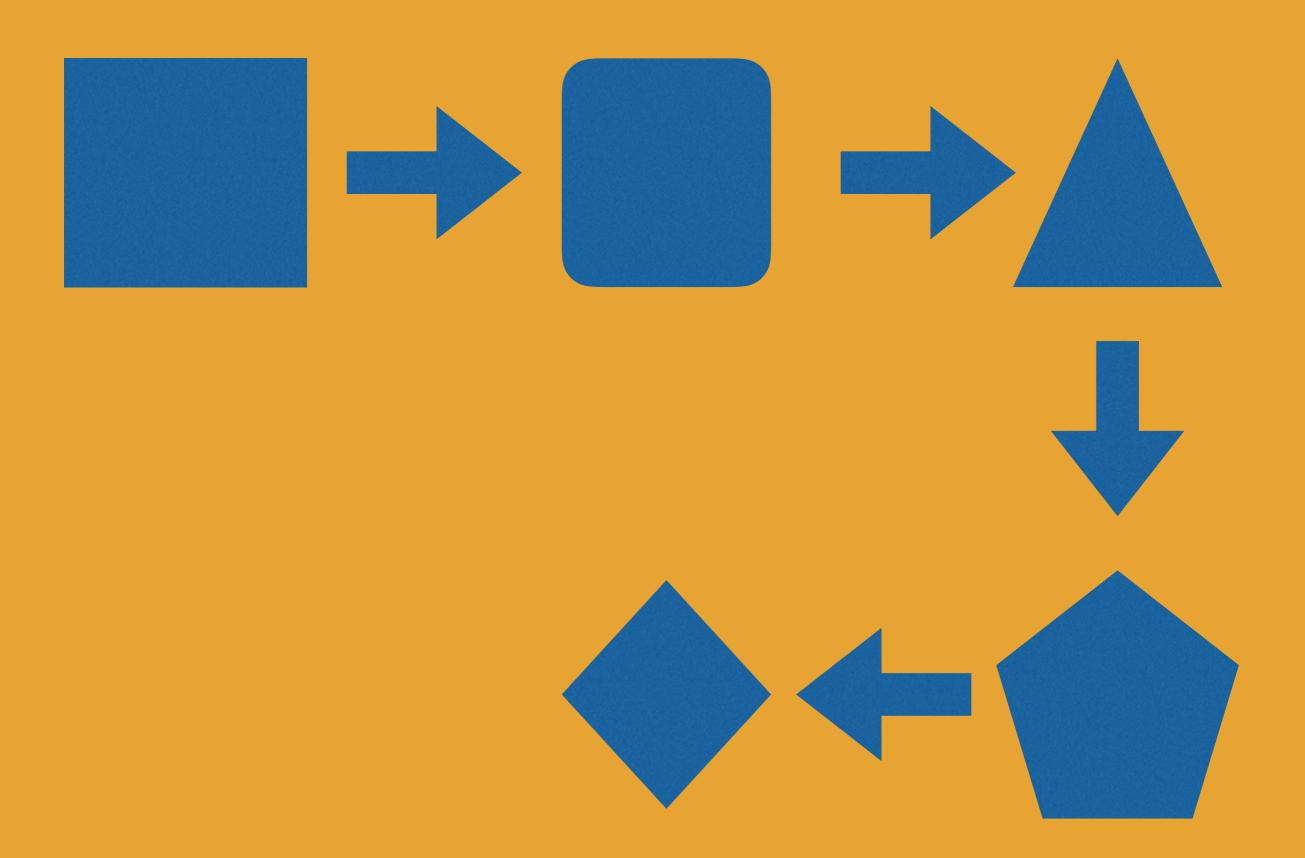
Freaking Stupid Assed Pain In The Butt Async Actions

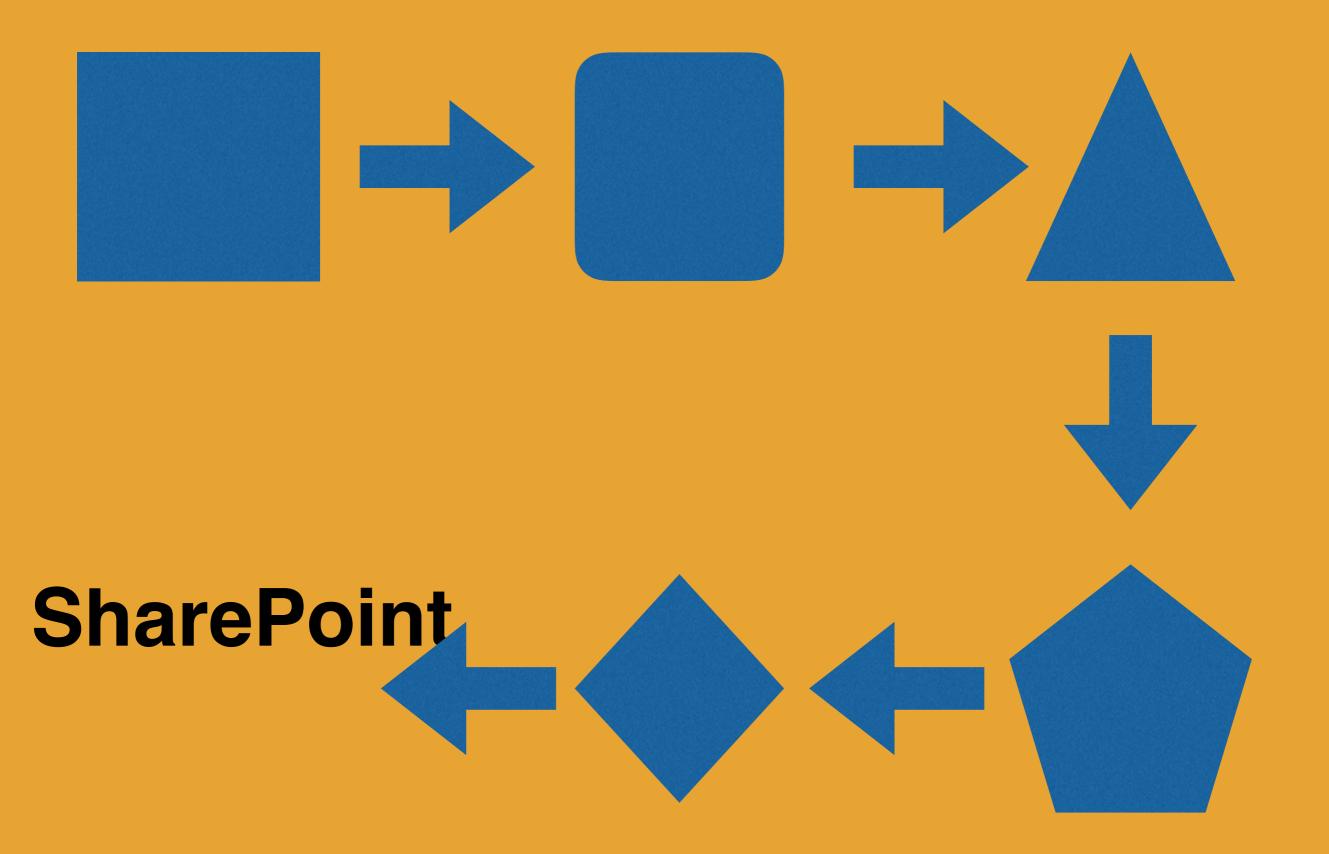








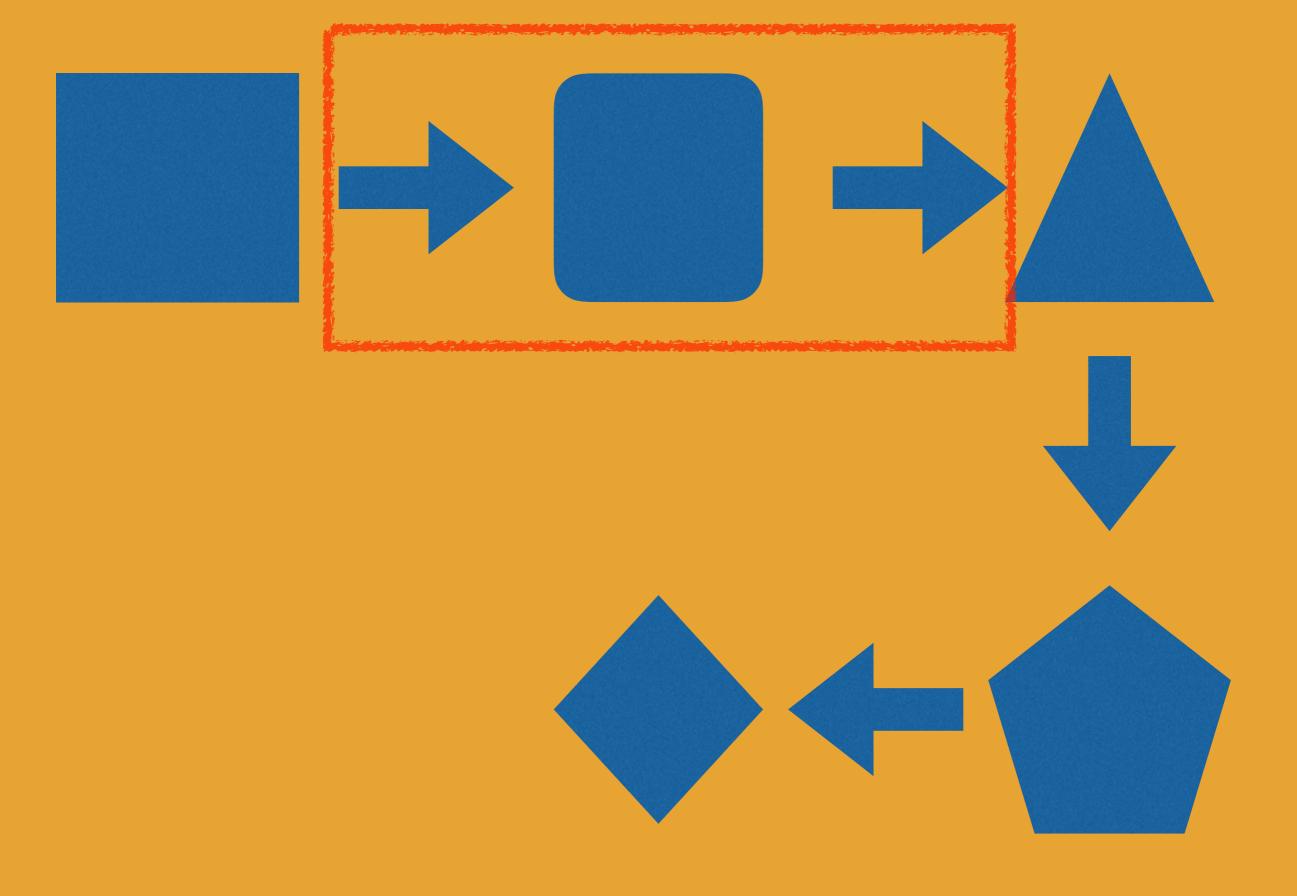






Test in Isolation

Minimize End-to-End



Speed



Parallelization Solves Everything!







Fix Your Dang System!

bit.ly/3HoursTo3Mins

Takeaways:



Automate High-Value, High Risk

Avoid Overlapping Coverage

Test Code 15 Production Code

Manage Your Data

Build Out APIs

Avoid End-To-End

Parallelization as LAST RESORT

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Jeadership Journey

Practical Tips to Help You Develop Your Leadership Abilities To Their Fullest



"Truly a must have for anyone looking to develop and grow as a leader."

- Alan Page

Jim Holmes

FOREWORD BY ROBERT C. MARTIN

bit.ly/leadershipjourney

0) No SharePoint

B) Hug your loved ones

RIGHTNOW

THANK YOU