



# Improving How





# Improving How Developers and PMs





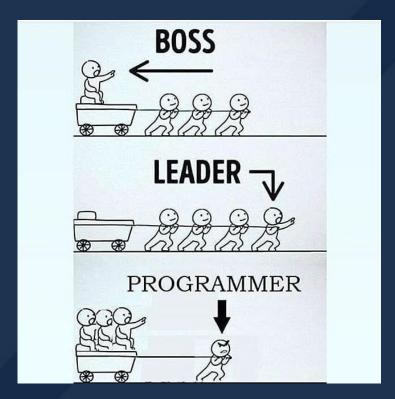
# Improving How Developers and PMs Work Together Across UC San Diego



# We're a Team Not a Hierarchy



# A PM is Not Your Boss (usually)





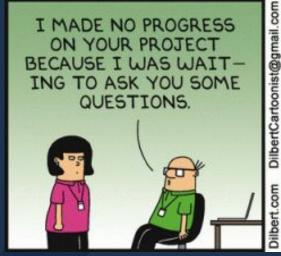
# A PM is Not Your Boss (usually)



# Why Do I Need a PM?



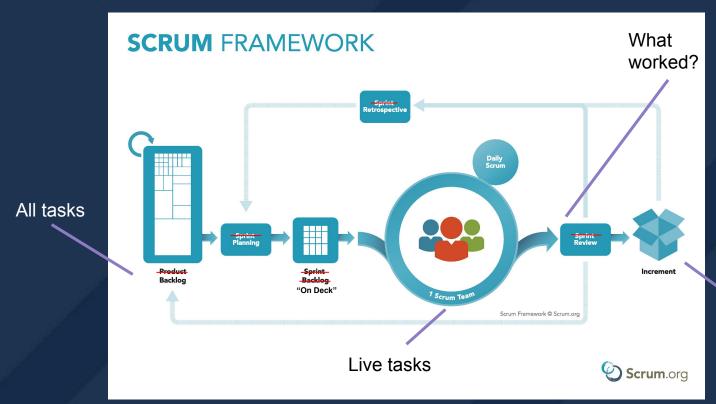
# PMs are People Too! (Mostly...)







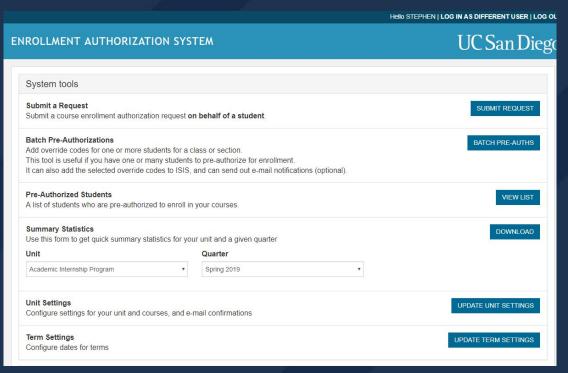
# An Agile-like Workflow



Final Product, or Done\*

# It should have been EASy

Case Study: Enrollment Authorization System (EASy)



# EASy: Project Management Pre-PM



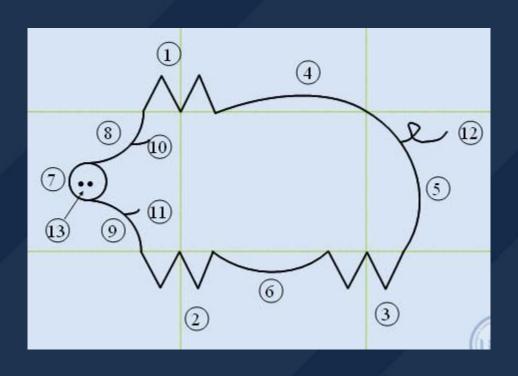
# EASy: Things get harder...

NAME (LA	ST, FIF	ST, MIDDLE)		STUDE	NT PID NUMBER			LEVEL		ADD/CHA DROP CA	
						GRADING OPTION: LETTER GRADE P/NP (for undergraduates) S/U (for graduates) UNITS:  no" for each override option below.  re Da	SD Office of the	e Registrar			
YEAR	VIII-04-04-04-04-	ACTION ADD DROP CHANG	E	SUBJECT:		LE	TTER GF	RADE		٩	
TERM		U U U		CO⊎RSE NU	JMBER:				uates)		
Fall Winter		SECTION ID		SECTION N	UMBER:	U	NITS:				
Spring		When approval is required inst	tructor o	or departmer	nt must check "yes" or "no" fo	r each over	ride opti	on below.	below.		
Summer I Summer II Spec Sum		Permission to Override: Prerequisite	Yes 🗆	No 🖸	Instructor's Signature					Date	ONLY
Spec sam	•	Enrollment Restrictions Enrollment Limit	Yes C Yes C		Department Stamp					Date	REV. 8-11
UC San D	iego	College Approval to Exceed 22.0 units	Yes [	] No□	College or Dean of Grad	uate Stud	ies Sign	ature (if req	uired)	Date	REGISTRAR 41240349 REV

# EASy: Our first (awkward) committee meeting



# EASy: Seeing things differently



# EASy: User Stories

#### Example:

"Add an alert when approval is not an option"

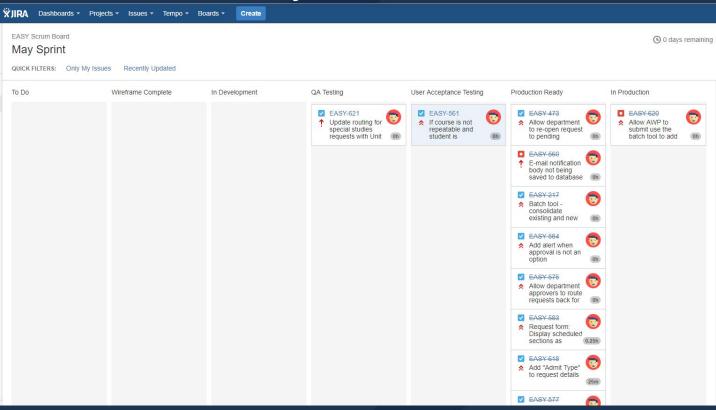
As a departmental EASy request approver

I want to see an alert to let me know why Approve or Approve and Notify Student is not an option

Whenever I am reviewing a request where the student would exceed the unit limit, but the section/grading option/number of units is missing

So that I understand why I can't approve the request

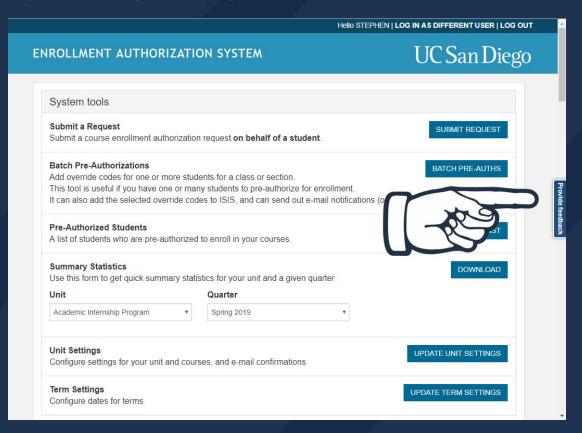
# EASy: Jira Board



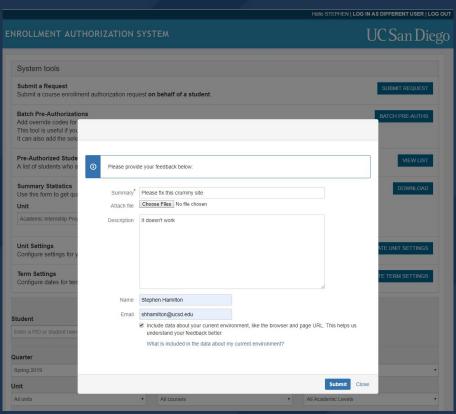
# **EASy: Managing Test Plans**

		est Plans 🌣 🛅 t Format Data Tools Add-ons Help	Last edit was made 4 days ago by anonymo	us					
~ 6 7	100% 🕶	\$ % .0 .00 123+ Calibri +	11 → B I ÷ A → ⊞ 55	-   = - ↑ -     -   ♥ -   GD 🖽 🗓	Ψ - Σ -				
"HYPERLINK("	https://prov	ost.ucsd.edu/jira/secure/RapidBoard.jsp	pa?rapidView=73&view=detail&selectedIssue=	EASY-561", "EASY-561")					
A	В	C D	E	F	G	н	1	J	К
		https://dev-academicaffairs.ucsd.edu/Modu	les/Students/PreAuth						
Jira Issue ID =	Tester	Test Case Type = Test Case Description =	Test Execution Steps	Test Data	Expected Result =	Actual Result =	Test Result (Pass	Comments =	Stephen's Response =
EASY-575	Dana/Matt	F Route request back to department	Open the request in the Test Data column     Select option to return request to department     Submit form			as expected	pass	tested by MH	
EASY-583	Dana/Matt	F Display scheduled sections as options for special studies requests		Calcutt, Nigel A Lauberth, Shannon Marie Hao, Nam Bui, Jack D Caffrey, Conor Leutgeb, Stefan Gingras, Alexandre Schroeder, Julian I Chang, Geoffrey A. Bartlett, Douglas H Ginsberg, Mark H. Zhou, Huilin		instructor/sectio n appears correctly. Tested for Caffrey, Conor and Ginsberg, Mark H.		tested by DB	
EASY-618	Dana/Matt	F Display "Admit Type" on request details	Open any request     Verify that the Admit Type displays between     ACADEMIC LEVEL and CLASSIFICATION LEVEL		Admit Type should display	admit type appears correctly	pass	tested by DB; will this display ICT and READ admits? or any other types other than FR/TRAN?	Yes, all admit types should be displayed. I added some to columns C and D of Test PIDs.  EAP Reciprocity (Study Abroad) Freshman Inter-campus (from another UC) Transfer Limited Status Special Employee Program Transfer Visitor or Exchange Program
EASY-561	Dana/Matt		Open request form     Complete request for a non-repeatable course (S119 or S219), for a student who is currently enrolled in it in the current quarter     Click Submit button		This should appear: You have previously taken or you are currently enrolled in this course and a grade has not been recorded on your transcript. You may not				

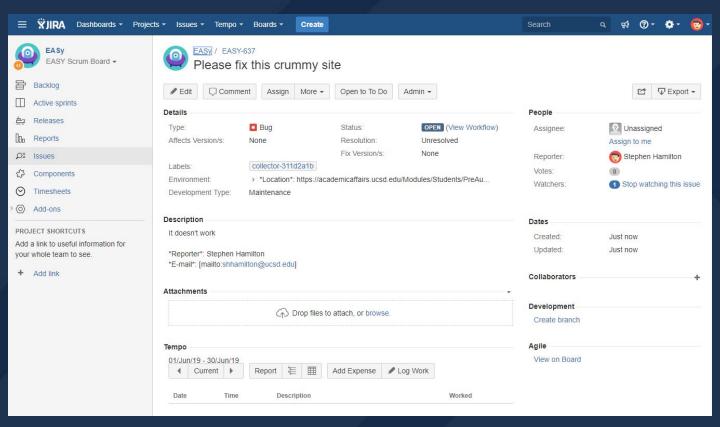
# EASy: Integrating the Jira feedback form



# EASy: Integrating the Jira feedback form



# EASy: Feedback becomes a Jira issue



# EASy: See, now, that wasn't so hard



## Roles and the Definition of "Done"

**The Developer**Role: Doer, Creator, Visualizer



**The Sponsor**Role: Approver, Budget-holder, Visionary

The Project Manager
Role: Planner, Taskmaster, Leader

#### The Sponsor

Sets the need and creates agreement with team

#### The Project Manager

Sets product parameters based on Sponsor's need(s) and Developer's resources

#### The Developer

Creates product based on Project Manager's specs outlined in the agreement

#### Team

Achieve consensus that the need(s) have been met

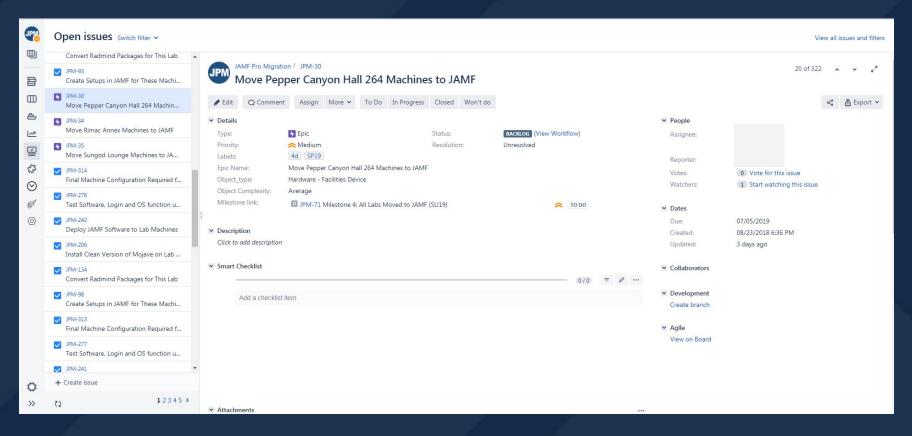
#### **Atlassian Hacks!**



# Atlassian Hacks! (Not real hacking though...)



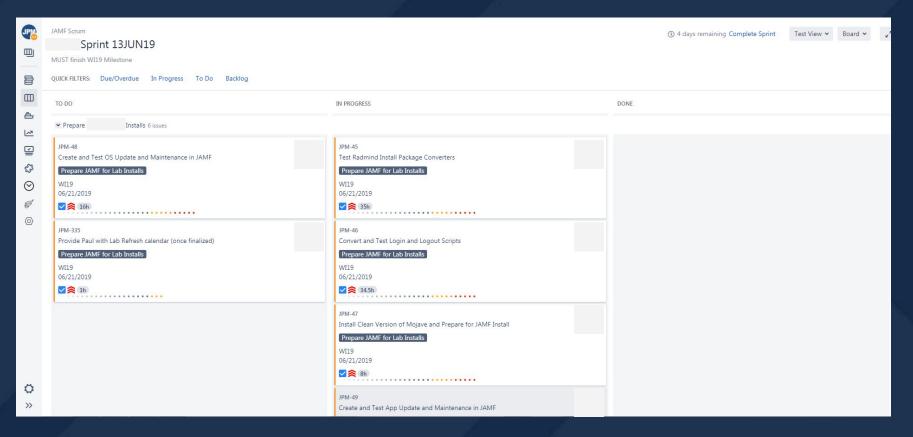
#### JIRA



## Kanban Boards



#### Kanban Boards



# **Executives Like Spreadsheets**

4	A	В	С	D	E	F	G	Н	I	J	K
1						NEXT GENERATION LMS					
2 1	Milestone I	TS-PRO	Object (Epic)	Object Type	Complexity	Task Breakdown	Status	Estimate	Resource	Due Date	Phase
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-5											

#### What is JQL?

▲ ATLASSIAN Support Products ✓ Resources ✓ Q Log in

#### Search JIRA like a boss with JQL

Atlassian Support / Documentation / Jira Core / Blog / ... / Blog Posts in Jul 2015

JQL stands for JIRA Query Language (not to be confused with Java Query Language). It's the most flexible way to search for issues in JIRA and is for everyone: developers, testers, project managers, and even non-technical business users. This blog is intended to be a tutorial for those who have no experience with database queries as well as those who want faster access to information in JIRA. Basically, anyone who works in JIRA can benefit from a little JQL.

If you're a technical person who already knows SQL, you've got a leg up because Atlassian's implementation of JQL is very similar. The search box is even equipped with code hints and inline validation to make constructing queries easy. To try out JQL in your JIRA instance, you can:

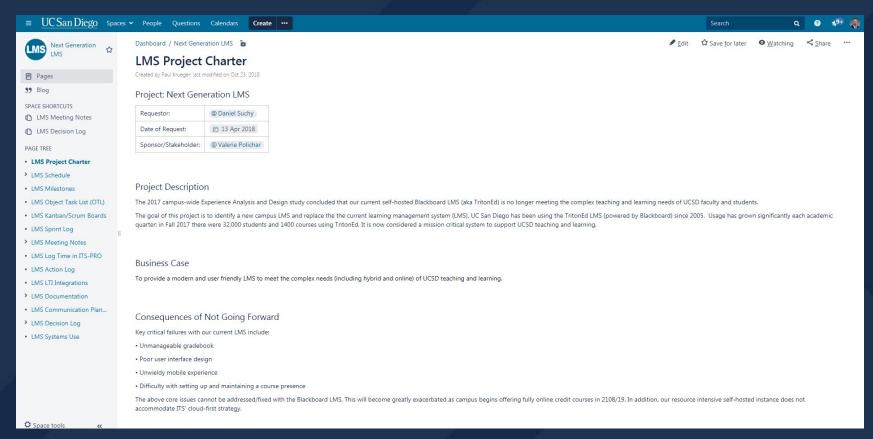
- Click Issues > Search for issue
- Click Edit (If you have a search in progress)
- Click Advanced Searching

You can then type your queries directly into JIRA. For a complete reference, check out our help docs on advanced searching. I recommend bookmarking this link – I find myself returning to it often to look up obscure queries. The docs page has a lot of content, so it's helpful to do a "Ctrl/Cmd + F" so you can jump directly to a specific topic or keyword of interest.

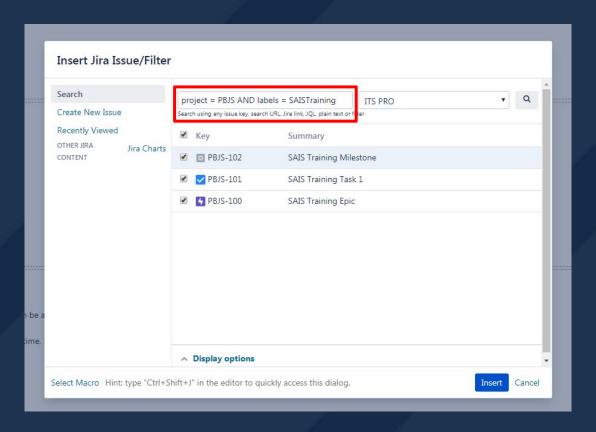
# Why Do I Care About JQL?



#### Confluence



## Macros



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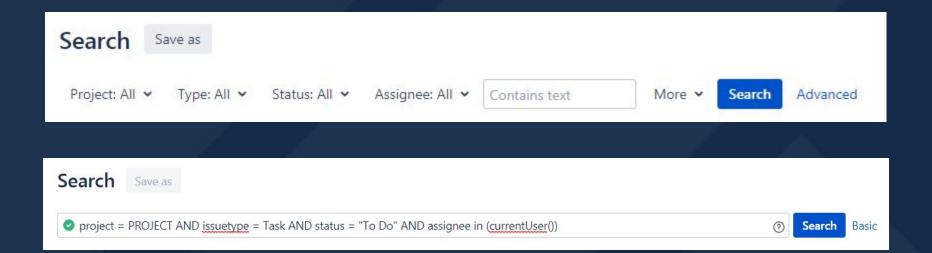
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				LMS-479	Collaboration with SOM	CLOSED	12h	Oh	3h		Mar 26, 2019	Operations
				LMS-447	Coordinate with WTS about advertising Canvas	IN PROGRESS	40h	37.5h	2.5h		Jun 30, 2020	Detailed design
				IMS-449	CourseFinder to canvas.ucsd.edu in TritonLink, etc.	BACKLOG	40h	40h			Jan 03, 2020	Detailed design

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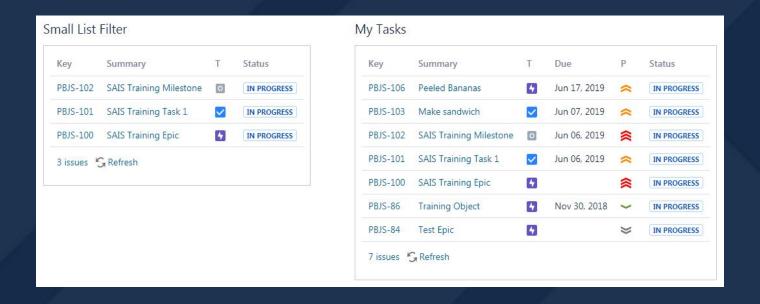
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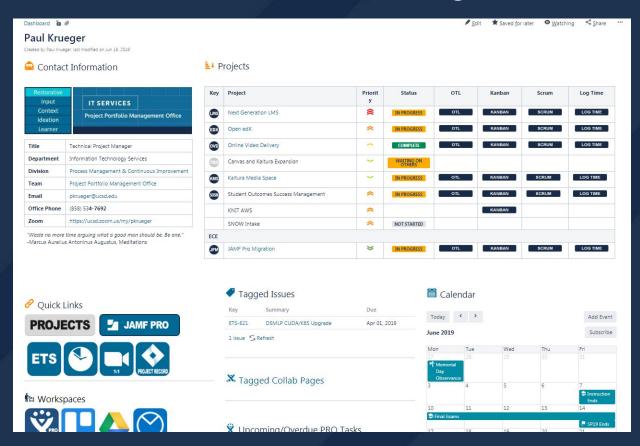
# Easy JQL



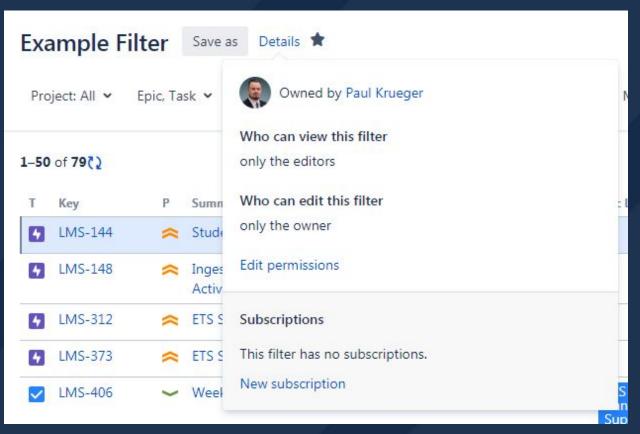
#### **Personal Lists**



## **Custom Home Page**



# Subscriptions



# Subscriptions



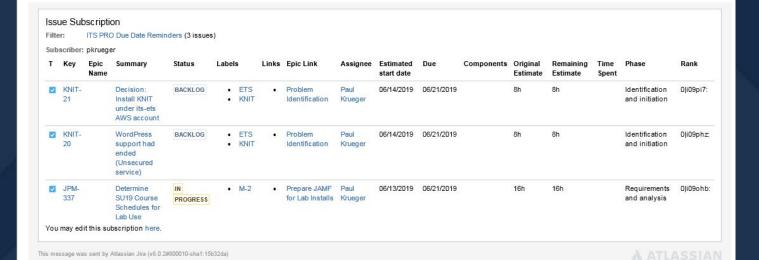
Wed 6/19/2019 8:00 AM

its-pro-jira@ucsd.edu

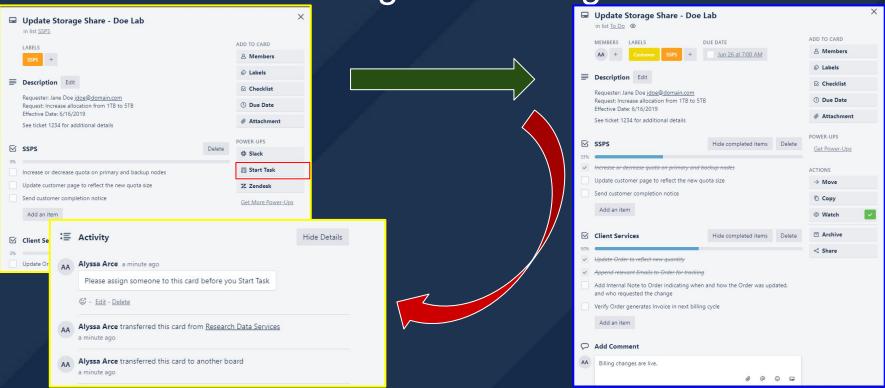
[ITS-PRO] Subscription: ITS PRO Due Date Reminders

To Paul Krueger

1 If there are problems with how this message is displayed, click here to view it in a web browser.



## Task Management using Trello



Backlog

Live

## Interpersonal Communications - not EASY



## Interpersonal Communications - not EASY

Imagine the following people in a room

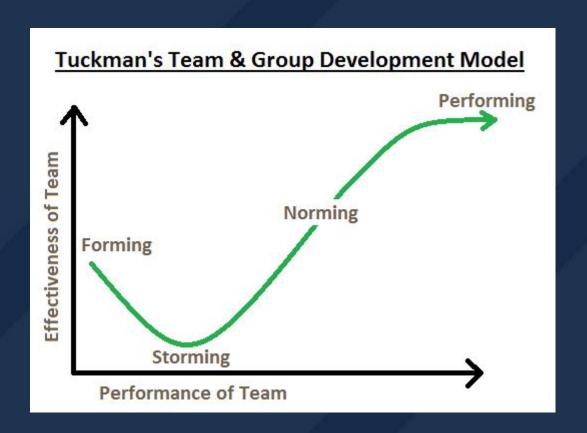
Piano player, introvert, never worked on a project before, <1 year on job Video game player, extrovert, working on 3 projects, 4 years on job Intramural sport player, introvert, working on 5 projects, 15 years on job







## Interpersonal Communications - not EASY



## Retrospectives / Lessons Learned

#### Retrospectives

- Happen at the end of each sprint (usually a 2-3 week period of work)
- Are a means to get immediate feedback on the work just completed
  - Offers ability to course-correct and deliver immediate positive impact on the next sprint
- Should be attended by all team members
  - Helps to increase shared understanding as well as builds team communication
- Should not be long! (hour maximum)
  - Not designed to be a scream session, lessons should be learned in a calm manner
- Are often cut from the sprint schedule try to avoid this mistake
  - This is the best opportunity for feedback on the state of the project, don't throw that away!

#### What can I do tomorrow if I do/don't have a PM?

- Daily stand-up (even just following the process yourself)
- Familiarize yourself with Agile terms
- Talk with your PM about Agile

## Glossaries of Agile/SCRUM terms

- PMI-ACP Glossary
  - Agile Glossary
- Agile guide to team management

# Closing Remarks

• Adam Tilghman

• Questions from audience

Credits - just in case...

Office Space. Directed by Mike Judge Performances by Ron Livingston, Gary Cole, John C. McGinley, Paul Willson, Richard Riehle 20th Century Fox, 1999

The Office. Directed by David Rogers, Rajiv Mehra, Tucker Gates, Ken Kwapis Performances by Steve Carell, Jenna Fischer, Rainn Wilson, B.J. Novak, John Krasinski NBC Universal, 2013

Dilbert. Scott Adams
Depictions of various comic strips
Andrews McMeel Publishing, 1989 to present

Star Wars. Directed by George Lucas Depiction of Millenium Falcon LucasFilm Limited, 1977 to present

Anchorman: The Legend of Ron Burgundy. Directed by Adam McKay Performances by Will Ferrell, Paul Rudd, Steve Carell, David Koechner Dreamworks Pictures, 2004

