

AGILE SCRUM FRAMEWORK



Scrum Training Series

1. Introduction to Scrum
2. Backlog Refinement Meeting
3. Sprint Planning Meeting
4. Daily Scrum Meeting
5. Sprint Review Meeting
6. Sprint Retrospective Meeting



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agilemanifesto.org/

Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to value:

- Individuals and interactions** over processes and tools
- Working software** over comprehensive documentation
- Customer collaboration** over contract negotiation
- Responding to change** over following a plan



*The 12 agile principles**

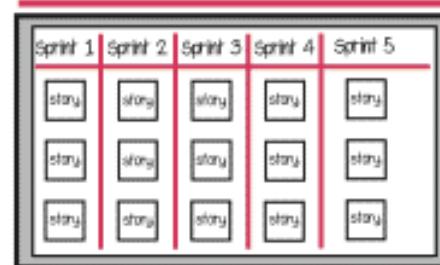
1 Satisfy the **customer**



Welcome **change**



Deliver **frequently**



4 Work **together**



5 Trust and **support**



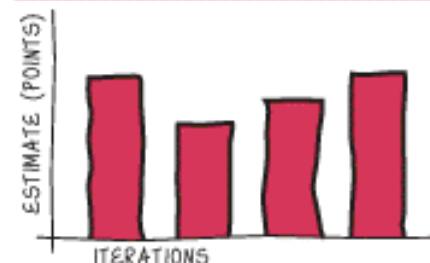
Face-to-face **conversation**



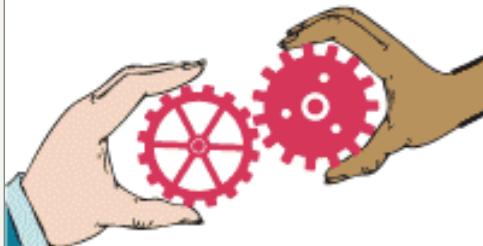
Working **software**



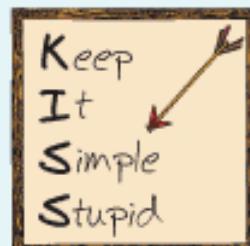
8 Sustainable **development**



9 Continuous **attention**



10 Maintain **simplicity**



11 Self-organizing **teams**

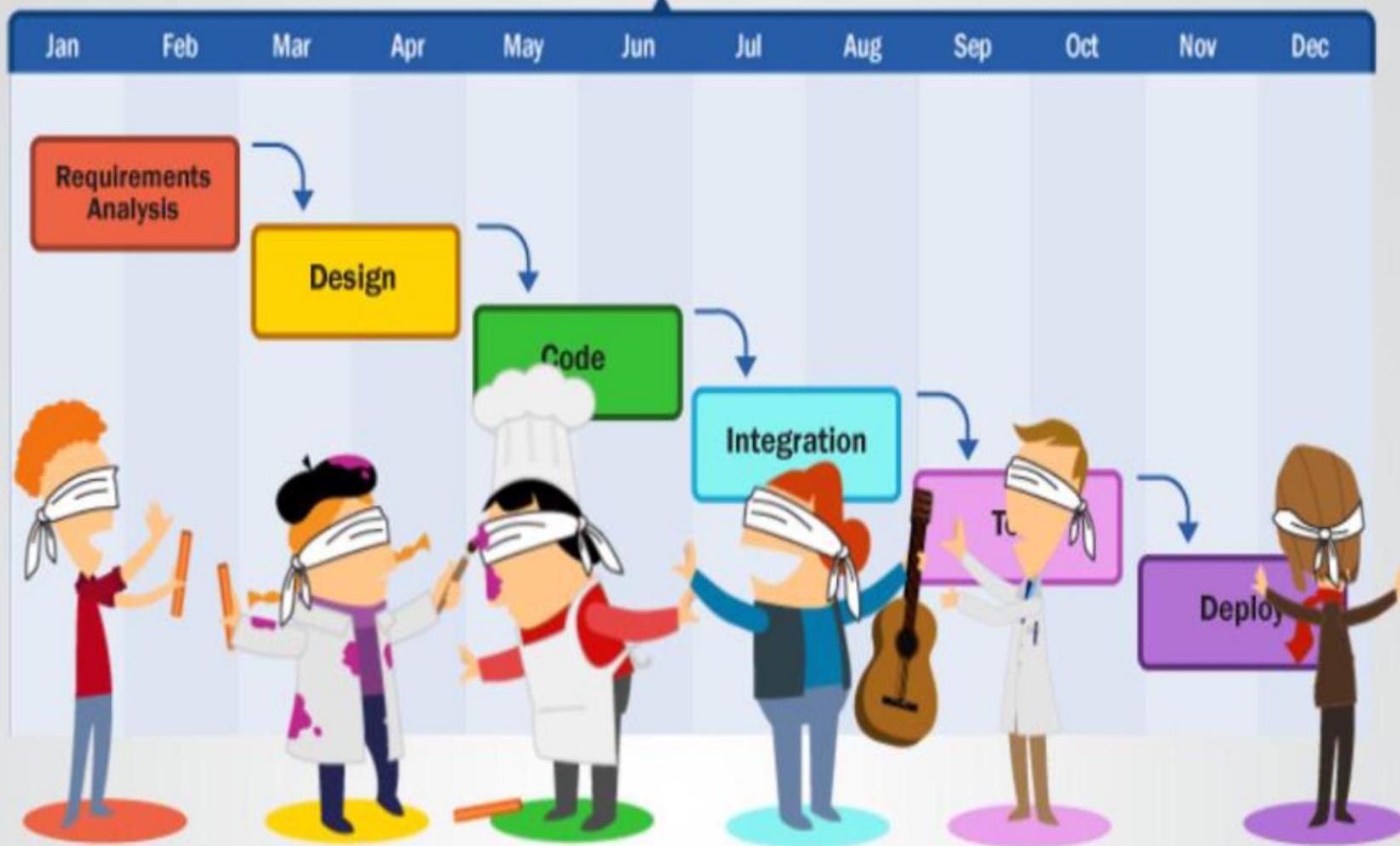


12 Reflect and **adjust**



What Scrum is not

One year



 What is Scrum?

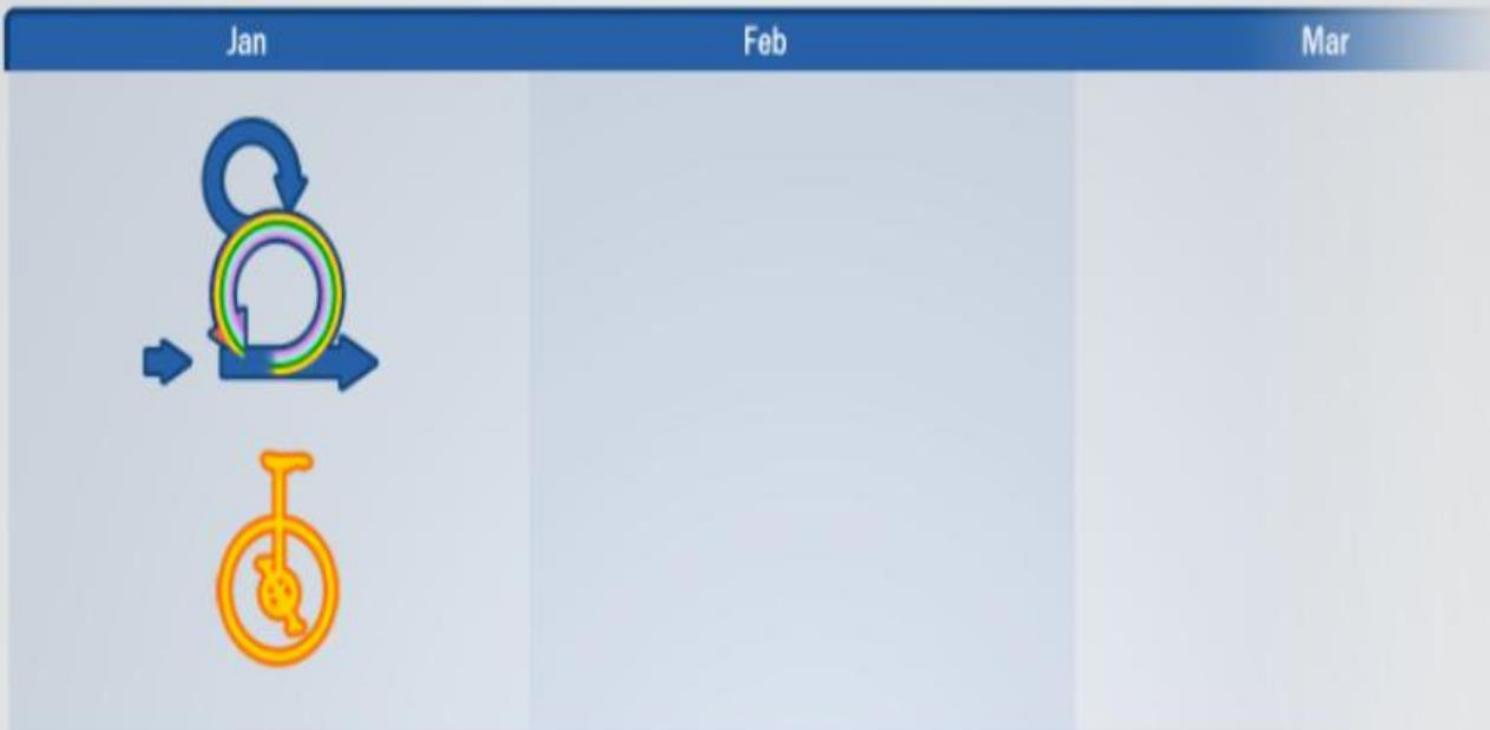




Sprints



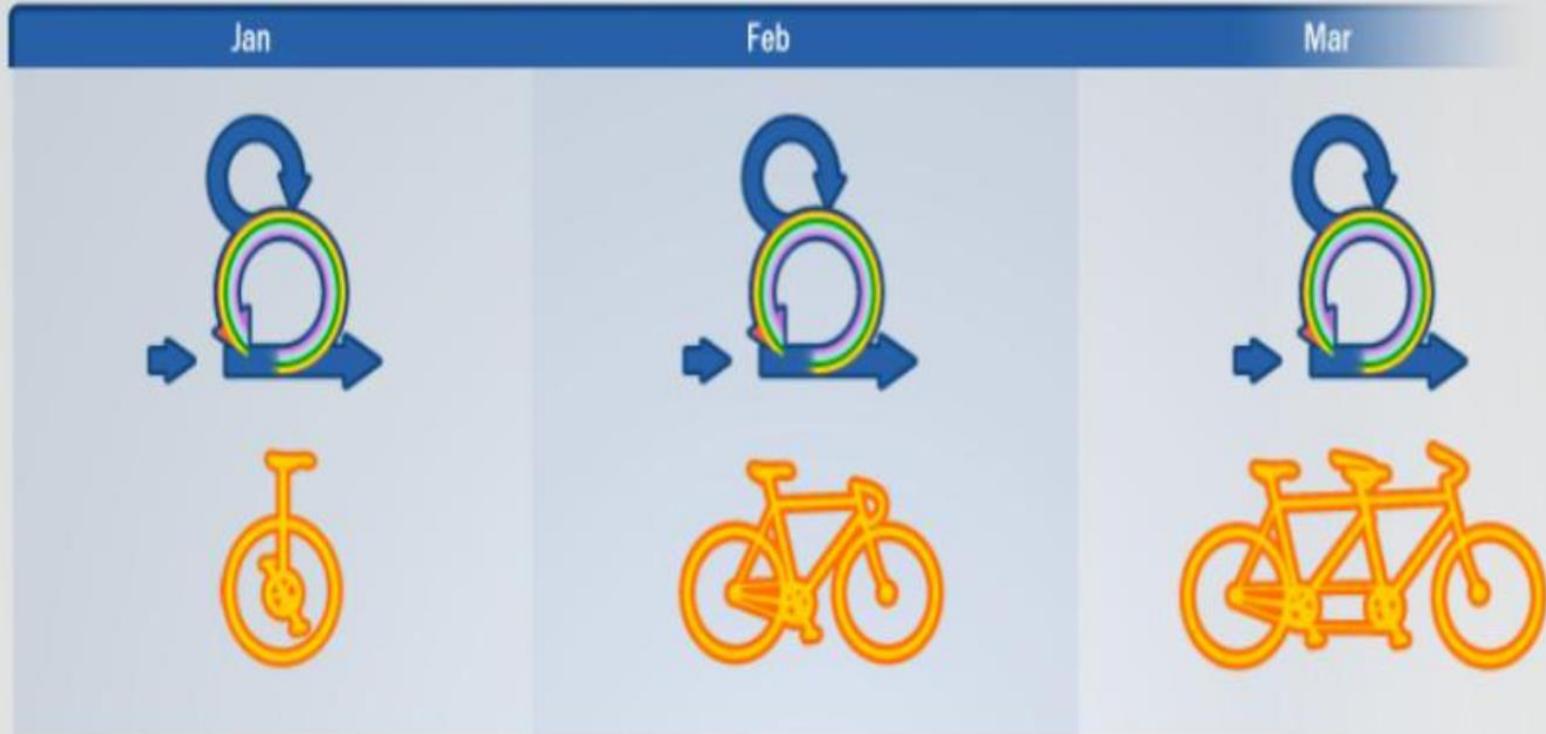
 What is Scrum?



 What is Scrum?



What is Scrum?





Scrum is
HARD TO PRACTICE!

It takes
**COURAGE AND
COMMITMENT**



Scrum Elements - Roles





PRODUCT OWNER

Responsible for Return On Investment (ROI)

Final arbiter of requirements questions

Focused more on the *what* than on the *how*

Scrum Elements - Roles



SCRUM DEVELOPMENT TEAM

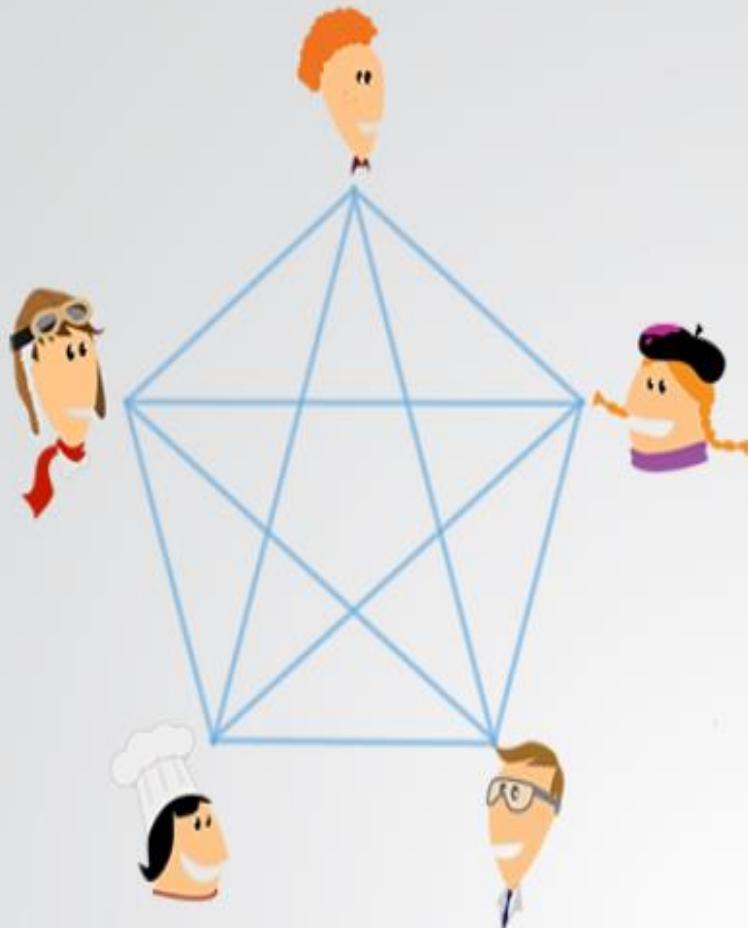
Cross-functional group

Attempts to build a “potentially shippable product increment” every Sprint

Collaborates

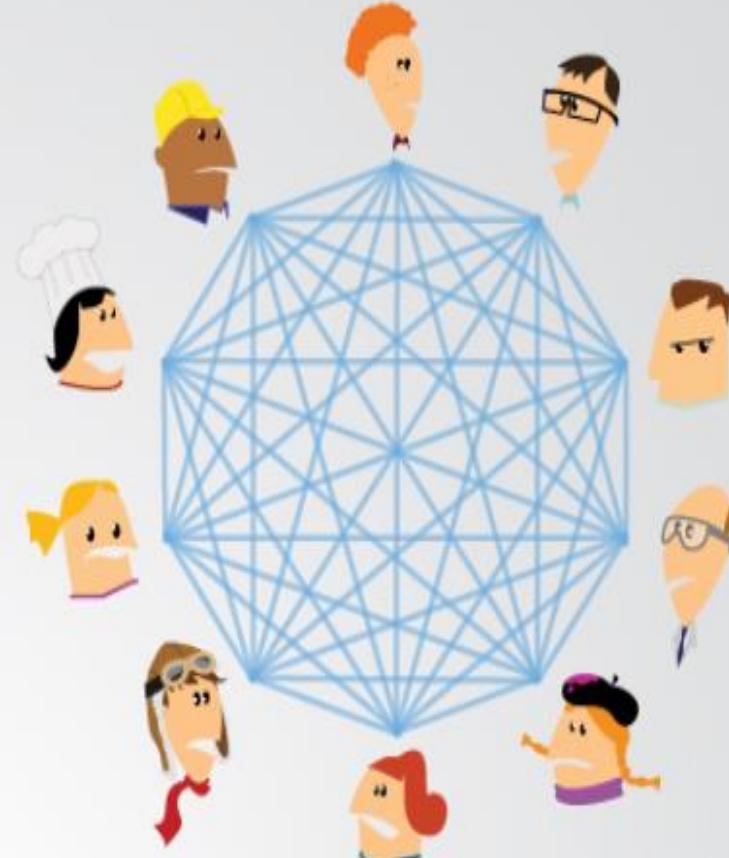
Self-organizing

Scrum Elements - Roles



SMALL TEAM

vs.



BIG TEAM

Scrum Elements - Roles

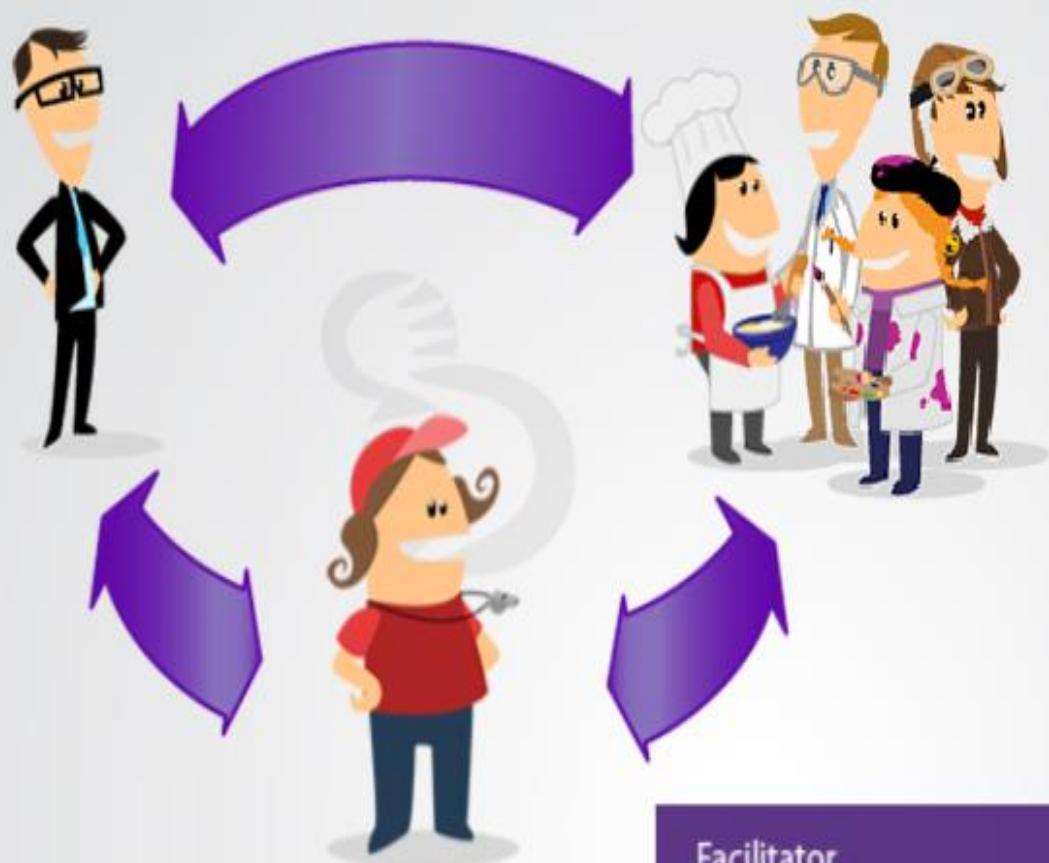


THE TEAM ROOM

🎩 Scrum Elements - Roles



Scrum Elements - Roles



Facilitator

🎩 Scrum Elements - Roles





Scrum Elements - Artifacts



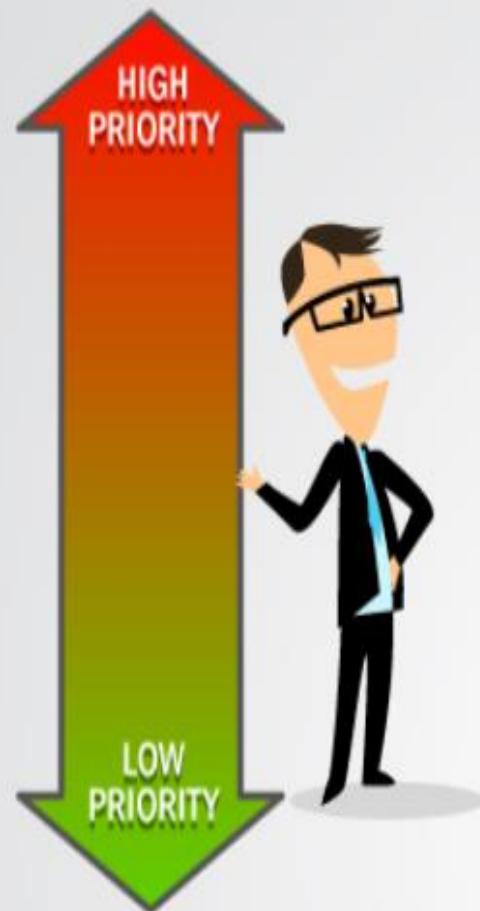


Scrum Elements - Artifacts



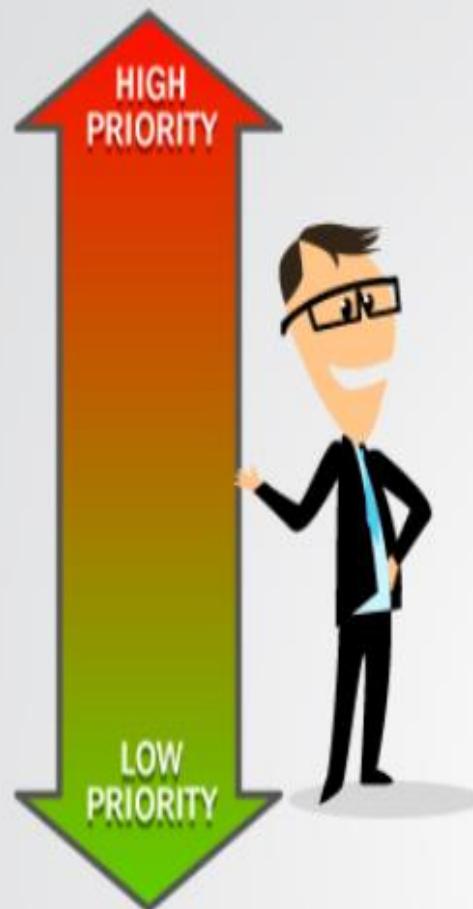


PRODUCT BACKLOG: Everything we might ever do





PRODUCT BACKLOG: Everything we might ever do





SPRINT BACKLOG: What we have planned to do during the current Sprint

SELECTED BACKLOG
ITEMS

Product Backlog Item

Product Backlog Item

Product Backlog Item

Product Backlog Item

NOT STARTED



IN PROGRESS



COMPLETED



What

How

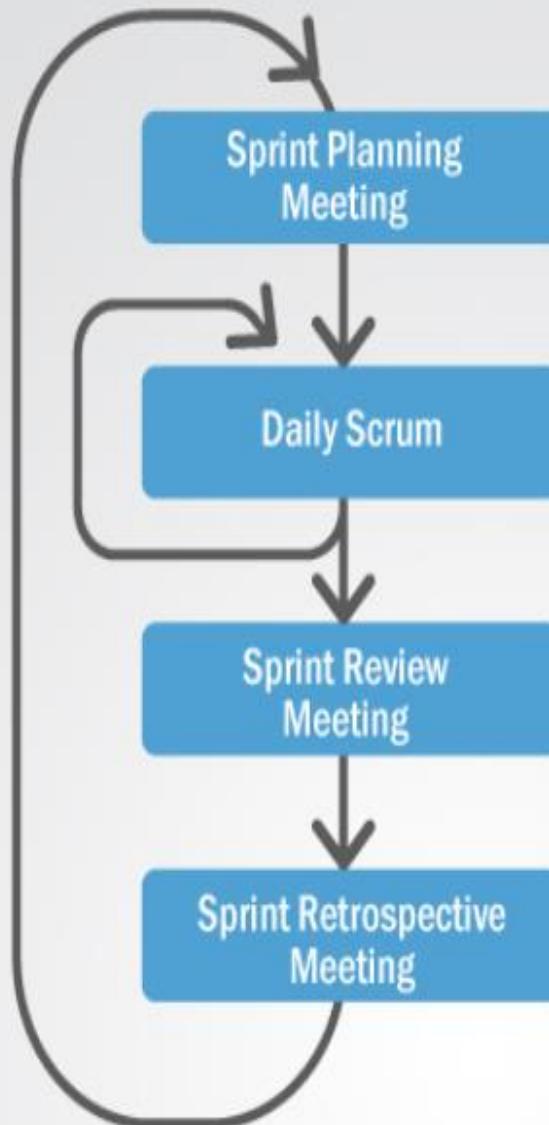


Scrum Elements - Meetings



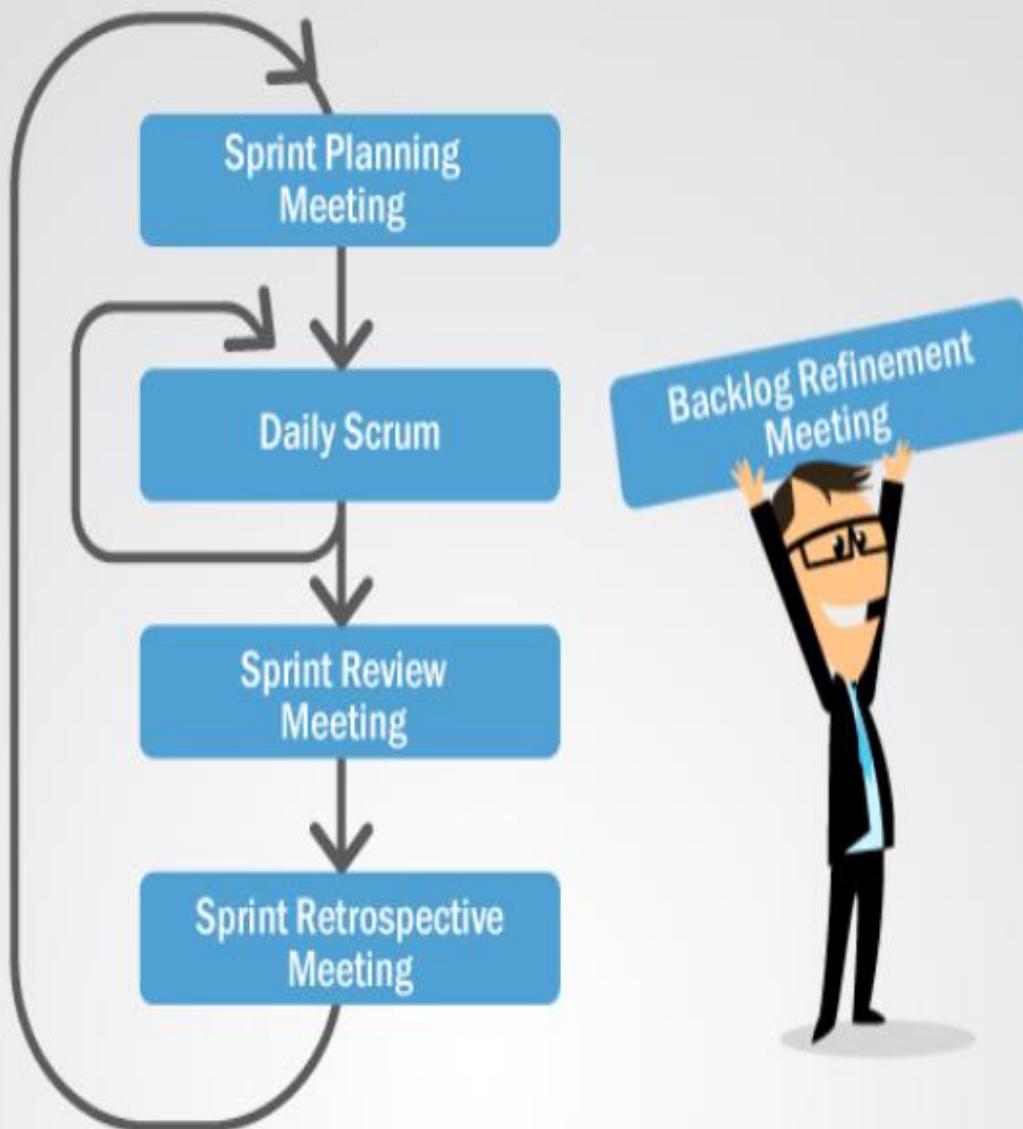


Scrum Elements - Meetings





Scrum Elements - Meetings





Scrum Elements - Meetings

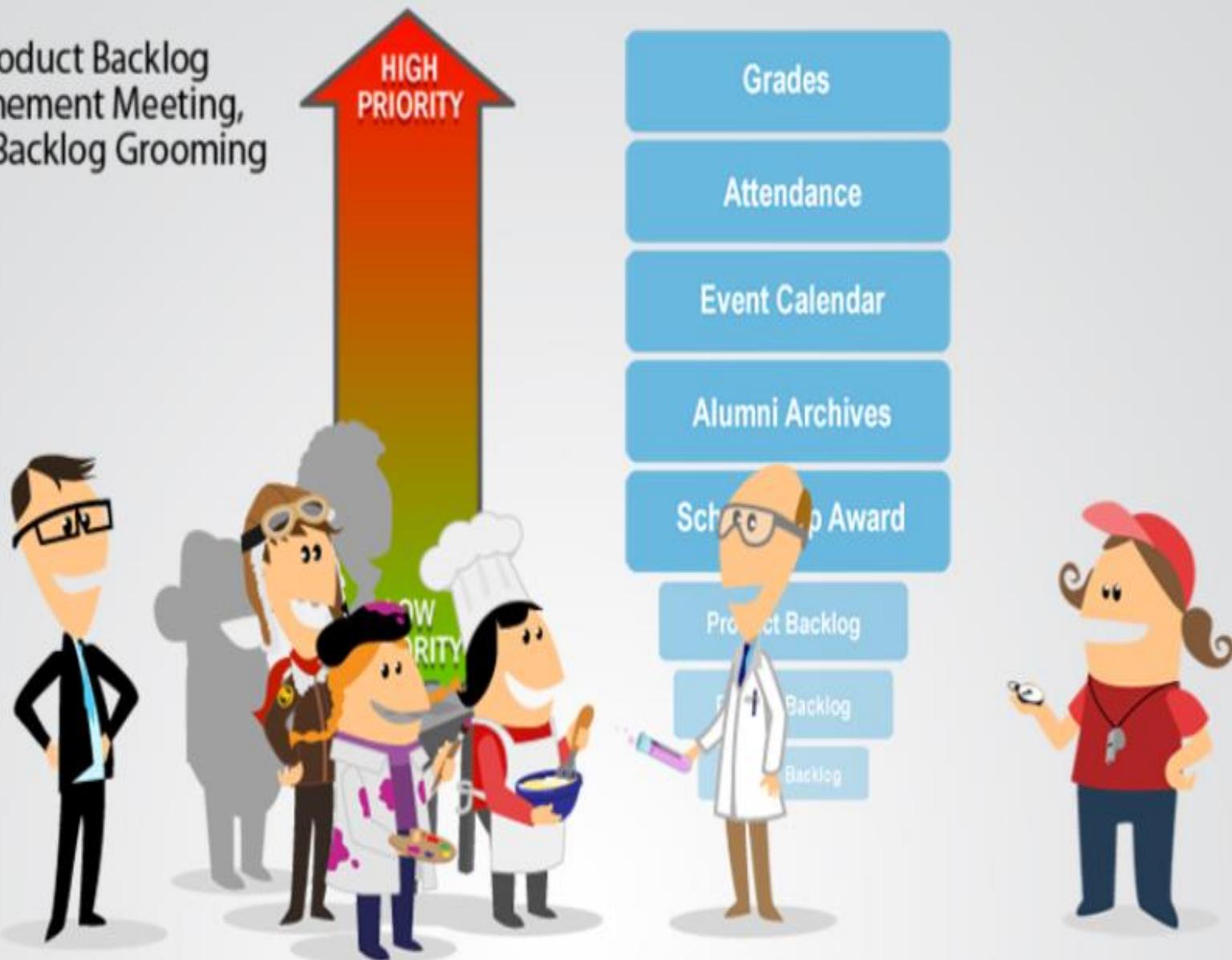
Two weeks

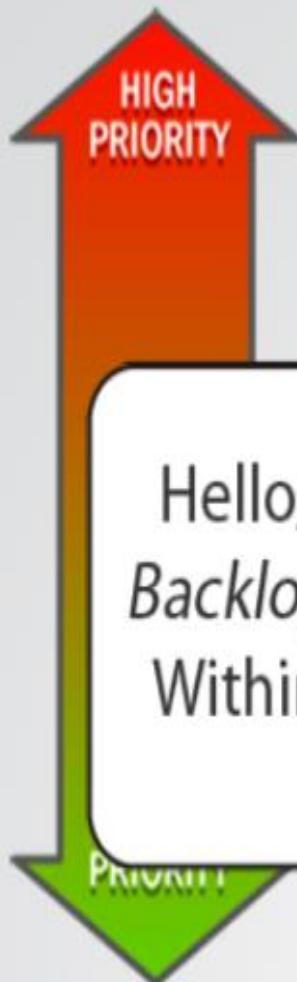


Scrum Training Series

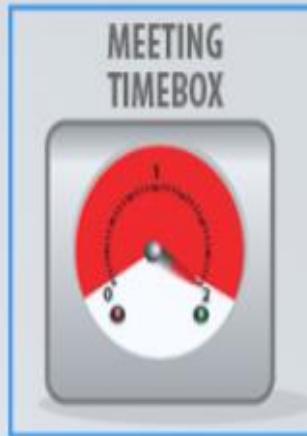
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Product Backlog Refinement Meeting, a.k.a. Backlog Grooming

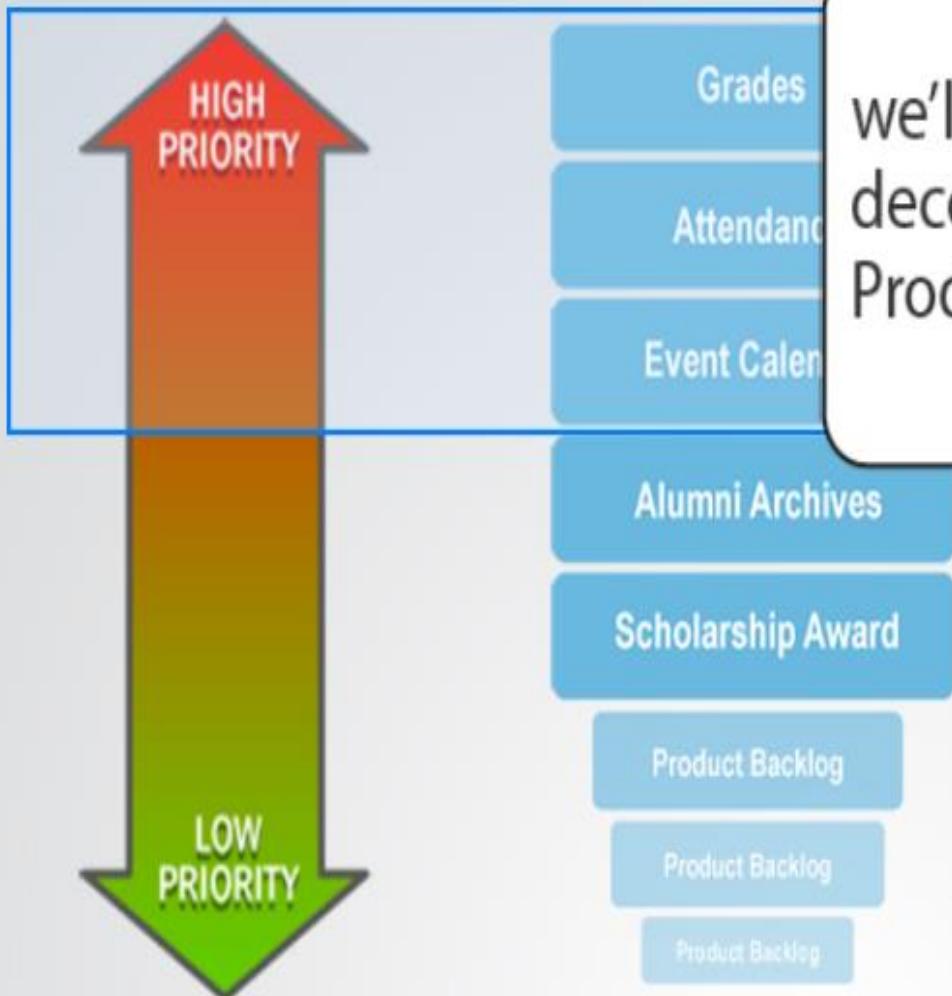




Hello, I'll be facilitating our
Backlog Refinement Meeting.
Within a two-hour timebox



Product Backlog



we'll attempt to clarify and decompose the higher priority Product Backlog Items.



Product Backlog Item

Product Backlog Item

Product Backlog Item

Product Backlog Item

One objective of this Backlog Refinement Meeting is to create PBIs that are



Product Backlog Item

Product Backlog Item

Product Backlog Item

Product Backlog Item

INDEPENDENT
NEGOTIABLE
VALUABLE
ESTIMABLE
SMALL
TESTABLE



INDEPENDENT:

As the team learns modern engineering practices that reduce dependencies, the Product Owner gains the ability to prioritize by business value rather than technical efficiencies.

NEGOTIABLE:

Business people and developers must work together daily throughout the project. See: <http://agilemanifesto.org/principles.html>

VALUABLE:

A well-formed PBI is customer-centric, so the business value is clear.

ESTIMABLE:

If we can't agree on a rough estimate for a PBI, it's a clue we don't understand it yet.

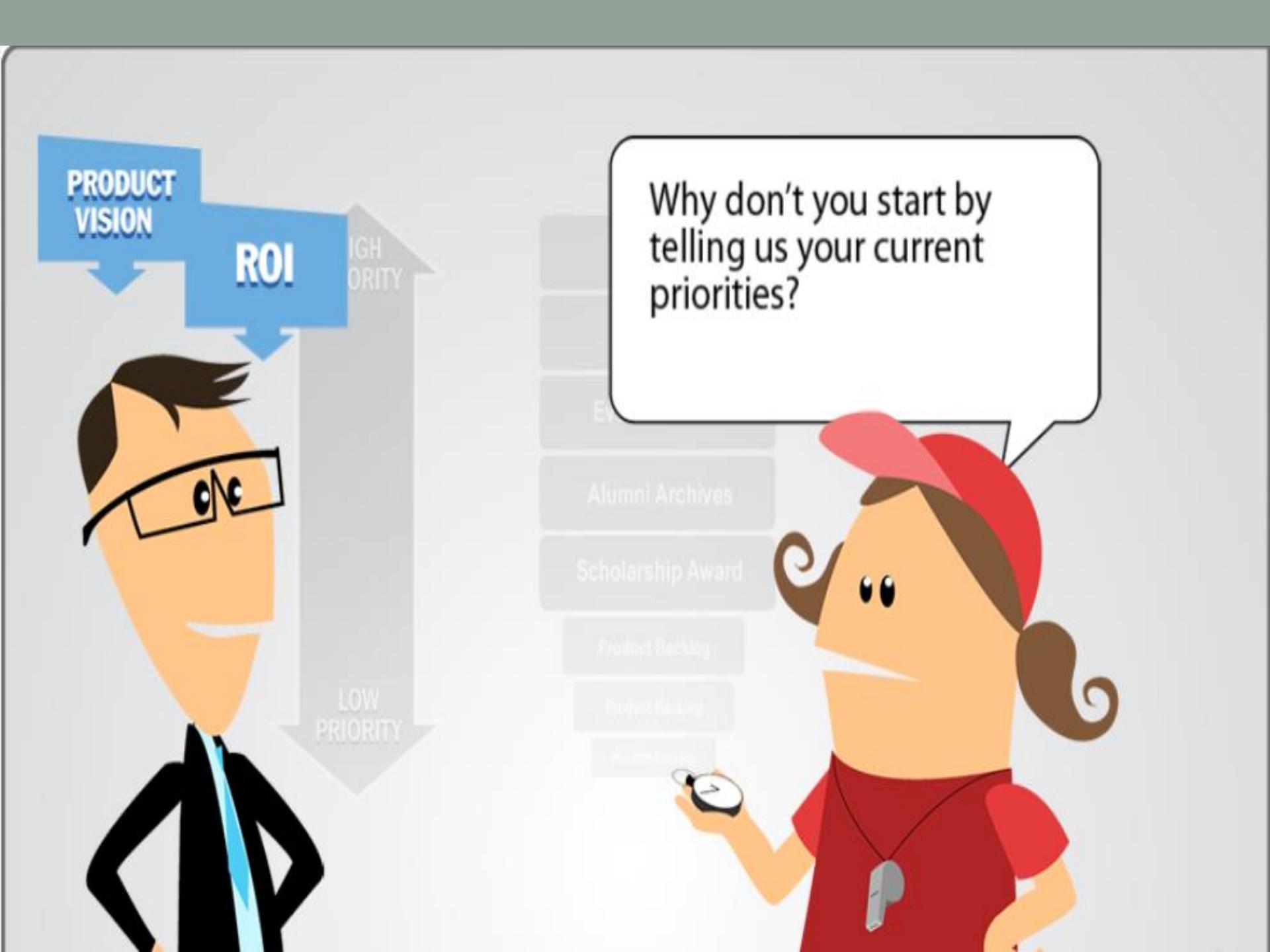
SMALL:

A single PBI should be no bigger than a quarter of the team effort for one Sprint. Ideally, the PBI should be even smaller than that, such as one or two team days.

TESTABLE:

Each item should have a clear, bright finish line agreed between the Team and PO.





PRODUCT
VISION

ROI

HIGH
PRIORITY

LOW
PRIORITY

Why don't you start by telling us your current priorities?

Alumni Archives

Scholarship Award

Product Backlog

Product Backlog

Based on my vision for this product, here are my top priority items:



Grades

Attendance

Event Calendar

Alumni Archives

Scholarship Award

Product Backlog

Product Backlog

Product Backlog

Grades, Attendance, Event
Calendar, Alumni Archives,
and Scholarship Awards.



Grades



Attendance



Event Calendar



Alumni Archives



Scholarship Award



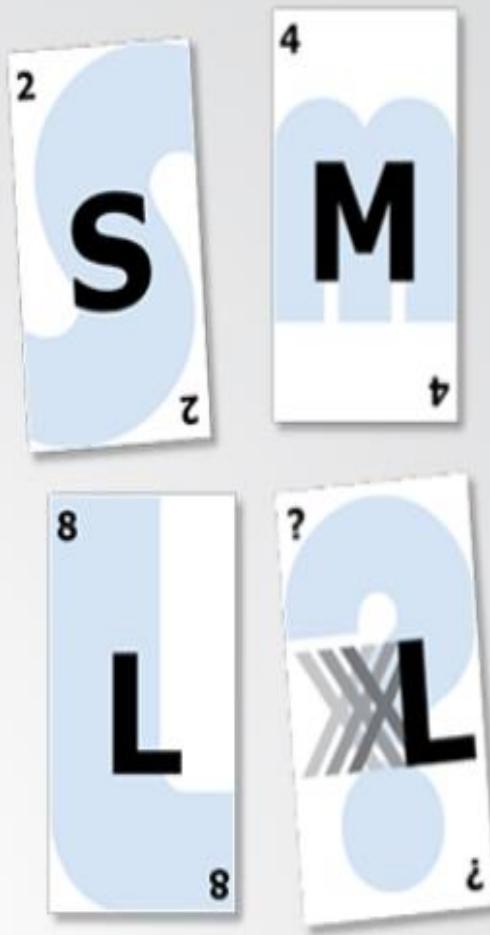
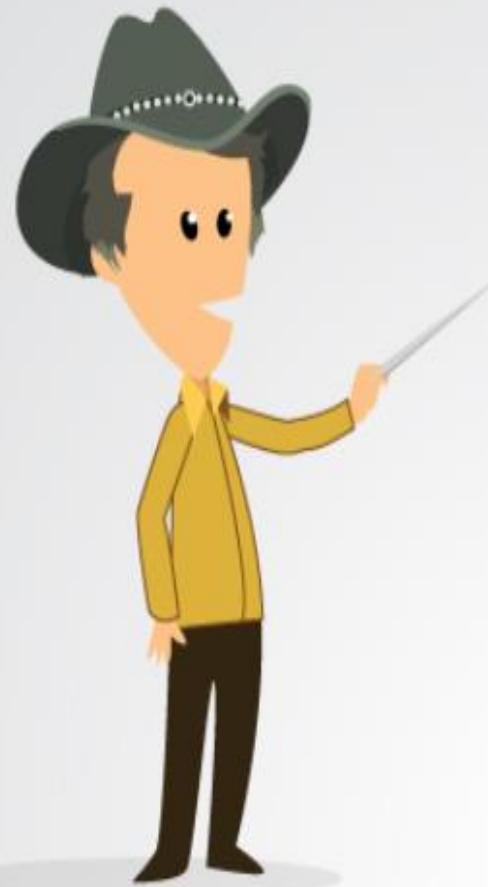
Product Backlog

Product Backlog

Product Backlog

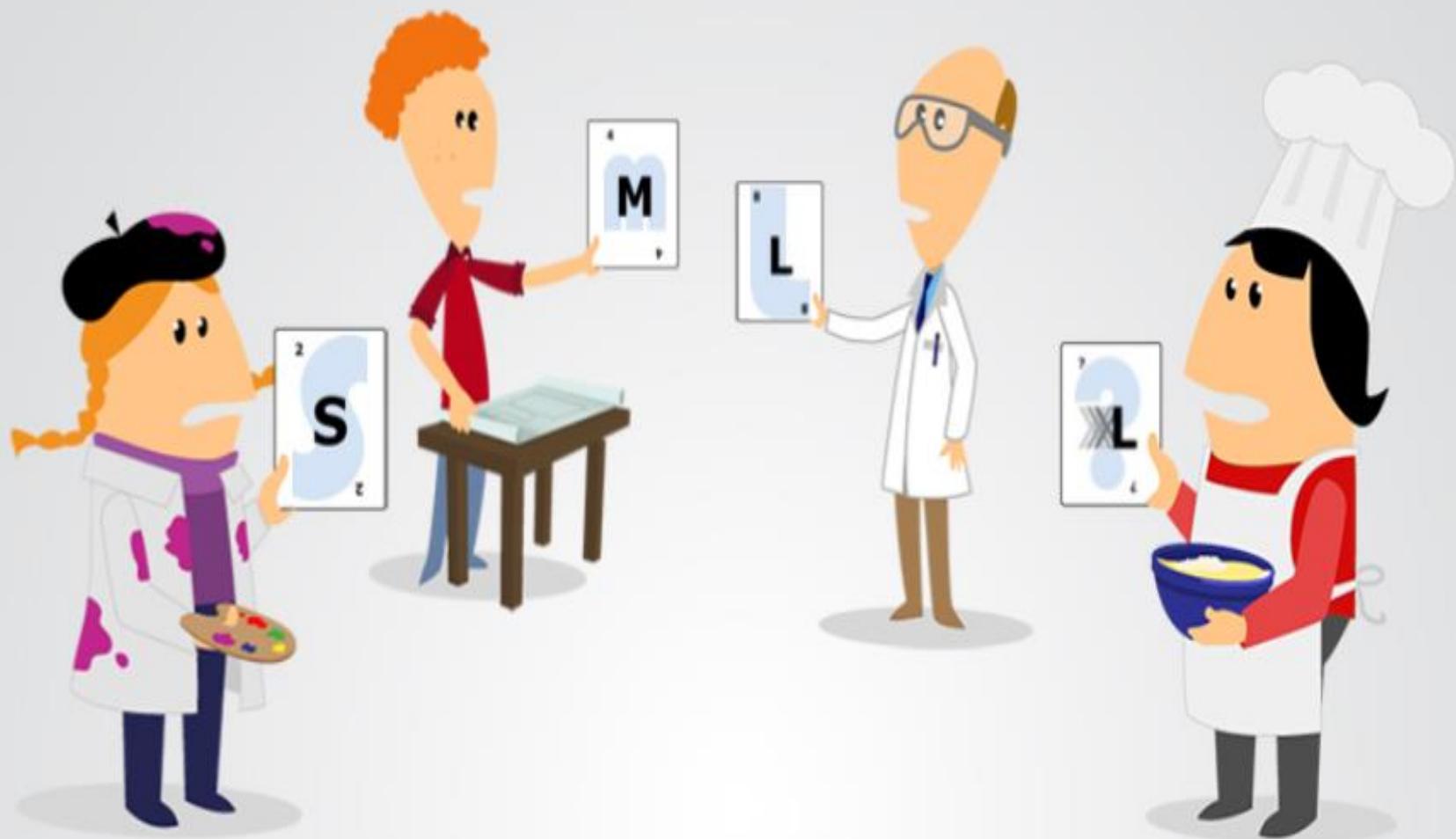
I propose using *estimation cards* to get a better cross section of opinions about the effort to get that PBI into potentially shippable form.



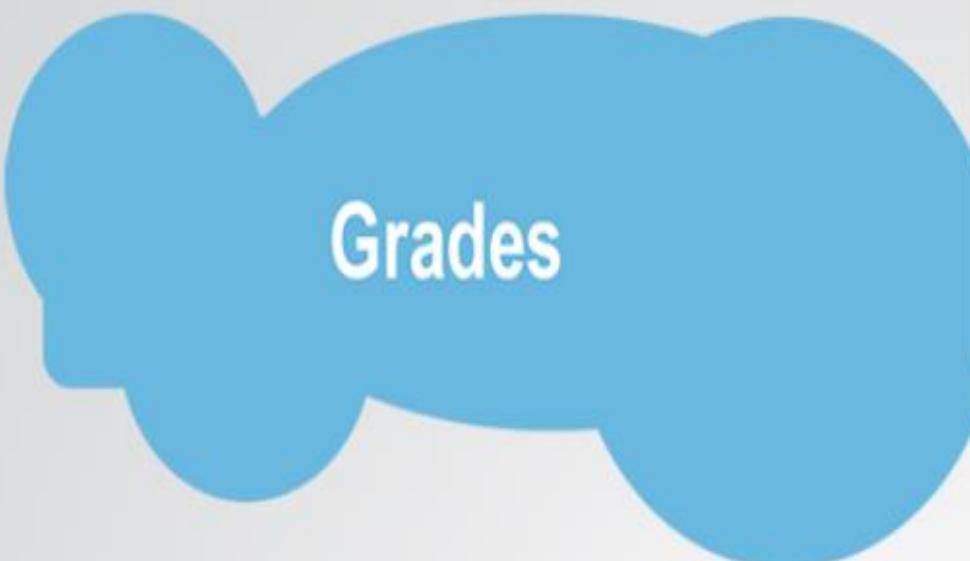


We're estimating the effort to complete the Grades PBI.
Choose a card, then reveal it at the same time as everyone else.





Let's hear the
reasoning behind
these guesses.



Grades



Maybe we can split the
Grades epic into more
valuable parts to get
smaller user stories.



Grades

Attendance

Event Calendar

Alumni Archives

Scholarship Award

Report Cards

It is often useful to identify *who*, *what* and *why* in a Product Backlog Item. For example:

View Grades

As a student, I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.



Feel free to re-prioritize the Product Backlog at any time.



View Grades, current semester

As a student, I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria/Done:

Revote?



View Grades, current semester

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria/Done:

Works on FingerFly







I declare the
Backlog Refinement
Meeting over!

BACKLOG REFINEMENT PURPOSE



Estimation of effort



Clarification of requirements



Decomposition of large PBIs into smaller ones (e.g. epics to user stories)



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PRODUCT BACKLOG

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Fingafly 4.1 and iPhone.

EFFORT: SMALL.

[Update Grades, current semester](#)

As a teacher, I can update grades online so I don't depend on administration to do it for me.

EFFORT: MEDIUM.

[View Grades, previous semester](#)

EFFORT: SMALL.

[Attendance](#)

EFFORT: MEDIUM.

[GPA](#)

EFFORT: SMALL.

[Report Cards](#)

EFFORT: EXTRA LARGE.

[Event Calendar](#)

[Alumni Archives](#)

SPRINT BACKLOG

COMMITTED
BACKLOG ITEMS

NOT STARTED

IN PROGRESS

COMPLETED

PRODUCT OWNER

DEVELOPMENT TEAM



SPRINT TIMEBOX

Two weeks

M	T	W	Th	F	M	T	W	Th	F
9a									
10a	Sprint Review Meeting (1 hour)								
11a									
12a									
1p									
2p									
3p									
4p									
5p									

Sprint Execution

Sprint Review Meeting (1 hour)

Sprint Review Meeting (1 hour)

Sprint Review Meeting (1 hour)

SCRUMMASTER

MEETING TIMEBOX



Hello. As your
ScrumMaster, I'll be
facilitating our *Sprint
Planning Meeting*.



We have a four-hour timebox



to plan a two-week Sprint. Any questions?

Two weeks

	M	T	W	Th	F	M	T	W	Th	F
9am										
10am	Sprint Planning Meeting (4 hours)									Sprint Review Meeting (2 hours)
11am										
12pm										
1pm										
2pm						Backlog Refinement Meeting (2 hours)				
3pm										Sprint Retrospective Meeting (2 hours)
4pm										
5pm										

Sprint Execution



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

IN PROG

Product Backlog Item



Product Backlog Item



Product Backlog Item



Product Backlog Item

Also during this meeting,
the team will come up with
an initial list of tasks





PRODUCT BACKLOG

Update Grades, current semester

As a teacher, I can update grades online so I don't depend on administrators to do it for me.

EFFORT: MEDIUM.

View Grades, previous semester

EFFORT: SMALL.

GPA

EFFORT: SMALL.

Attendance

EFFORT: MEDIUM.

Report Cards

EFFORT: EXTRA LARGE.

Event Calendar

Alumni Archives

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

IN PROGRESS

COMPLETED



This is Product Owner's top priority item. Do you think we could do this in our two-week Sprint?

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and JPhone.

EFFORT: SMALL.

What is our definition of *done*?



DONE:

- properly tested
- refactored
- potentially shippable



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

View Grades, current semester

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and JPhone.

EFFORT: SMALL.

NOT STARTED



IN PROGRESS





COMMITTED BACKLOG ITEMS

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Assurance Criteria DQH

As a teacher, I can update grades online so I that no longer depend on administrators to do it for me.

[View Grades](#) [Previous Semester](#)

RIGHT SMALL

100

RIGHT SMALL

NOT STARTED



IN PROGR.



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

IN PROGRESS

View Grades, current semester

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

Update Grades, current semester

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

View Grades, previous semester

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

GPA

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL



One last check. Are you committed to these four PBIs as a team, even if it turns out to require different tasks?





“
Yes, if you'll protect us
from people asking us to
do other things.



SPRINT BACKLOG

COMMITTED BACKLOG ITEM

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on FlingMyIt 4.1 and iPhone.

EFFORT: SMALL

[Update Grades, current semester](#)

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

[View Grades, previous semester](#)

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on FlingMyIt 4.1 and iPhone.

EFFORT: SMALL

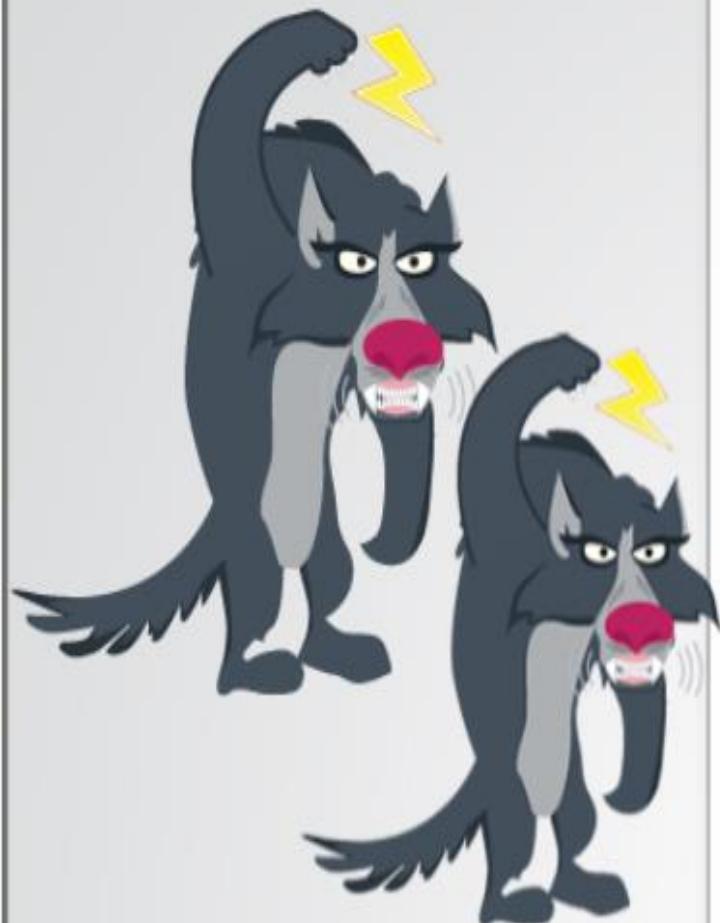
GPA

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on FlingMyIt 4.1 and iPhone.

EFFORT: SMALL

I'll protect you from
the wolves.





Yes!

Yeah!

Yes!

Yes!



I'll be available during the Sprint to make the final call about requirements questions.

I declare the Sprint
Planning Meeting over!





Scrum Training Series

1. Introduction to Scrum
2. Backlog Refinement Meeting
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6. Sprint Retrospective Meeting



Hello! As your ScrumMaster, I'm here to help you with your *Daily Scrum Meeting*.



We do this at the same time,
same place, each day, standing
up for 15 minutes.

TIMEBOX





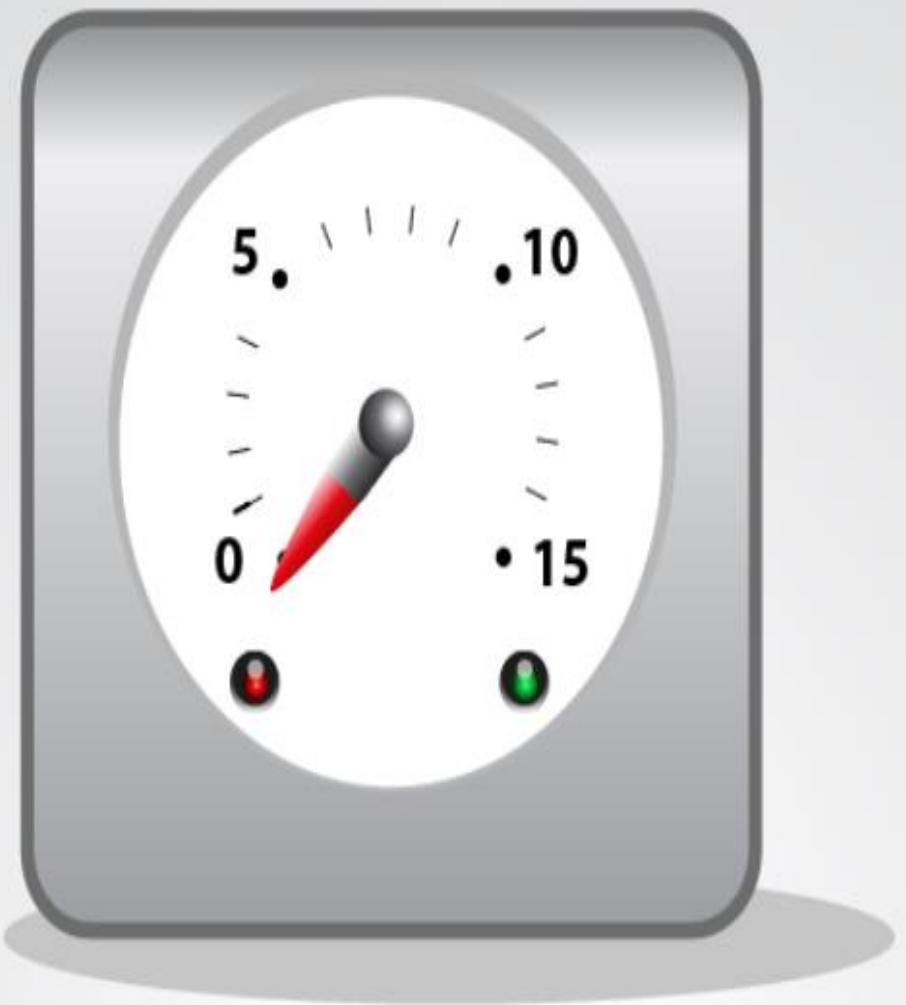
At this meeting, each of you will report to the rest of the team your answers to the three questions.

Daily Scrum Three Questions

1. What did I do yesterday?
2. What will I do today?
3. What impedes me?

What did I do yesterday?
What will I do today?
What impedes me?







The Daily Scrum is over.

SIDE BAR

- Sed ut perspiciatis unde
omnis iste natus error sit.
- Nemo enim ipsam volupta
- Natus error sit volup tatem





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SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

IN PROGRESS

COMPLETED



DEVELOPMENT TEAM

PRODUCT OWNER



SAMMY
SEAGULL

URI
USER

VICTOR
VIP



SCRUMMASTER

PBIs DONE/VELOCITY

Hello, I'm your ScrumMaster.
Welcome to the Sprint Review
Meeting.



This meeting is open to any stakeholder who's interested. Today we're being visited by Sammy Seagull, Victor VIP, and Uri User.



URI
USER

SAMMY
SEAGULL

VICTOR
VIP



The highlight of every Sprint Review Meeting is a live product demonstration.



URI
USER

SAMMY
SEAGULL

VICTOR
VIP



The team will demonstrate their attempt to build a potentially shippable product increment to the Product Owner.



DEVELOPMENT TEAM



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I go to school to know whether I'm passing.

As a student I can see my grades online so that I don't have to wait until I go to school to know whether I'm passing.

NOTS

After that the Product Owner will declare which of the PBIs committed to the Sprint



PRODUCT OWNER



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Bigertly 4.1 and iPhone.

EFFORT: SMALL

[Update Grades, current semester](#)

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

[View Grades, previous semester](#)

As a student I can see my previous semester's grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Bigertly 4.1 and iPhone.

EFFORT: SMALL

GPA

As a student I can see my previous semesters' grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Bigertly 4.1 and iPhone.

EFFORT: SMALL

NOTS

When the Product Owner considers items done they'll be counted as velocity.



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

[Update Grades, current semester](#)

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

[View Grades, previous semester](#)

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

GPA

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

NOTS

The only purpose of velocity is to help the Product Owner make forecasts.



PBIs DONE/VELOCITY

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align ready on Fingertip 4.1 and iPhone.

EFFORT: SMALL

[Update Grades, current semester](#)

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

[View Grades, previous semester](#)

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align ready on Fingertip 4.1 and iPhone.

EFFORT: SMALL

GPA

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align ready on Fingertip 4.1 and iPhone.

EFFORT: SMALL

NOTS

Items that are not done -- or "almost done" -- will be moved in their entirety back to the Product Backlog.

PBIs DONE/VELOCITY



SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I go to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

[Update Grades, current semester](#)

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

[View Grades, previous semester](#)

As a student I can see my previous semester grades online so that I don't have to wait until I go to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

GPA

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Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

NOTS

Lastly, we'll listen to feedback from the stakeholders which may result in



PBIs DONE/VELOCITY

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

[View Grades, current semester](#)

As a student I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

[Update Grades, current semester](#)

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

[View Grades, previous semester](#)

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

GPA

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingertip 4.1 and iPhone.

EFFORT: SMALL

NOTS

new Product Backlog Items for the Product Owner to prioritize according to his vision.



PBIs DONE/VELOCITY

AGENDA

Here's that agenda again.

- 1) Product demonstration.
- 2) Product Owner declares what's done.
- 3) (Optional) Measure velocity.
- 4) Stakeholder feedback.



AGENDA

- 1) Product Demonstration.
- 2) Product Owner declares what's done.
- 3) (Optional) Measure velocity.
- 4) Stakeholder feedback.





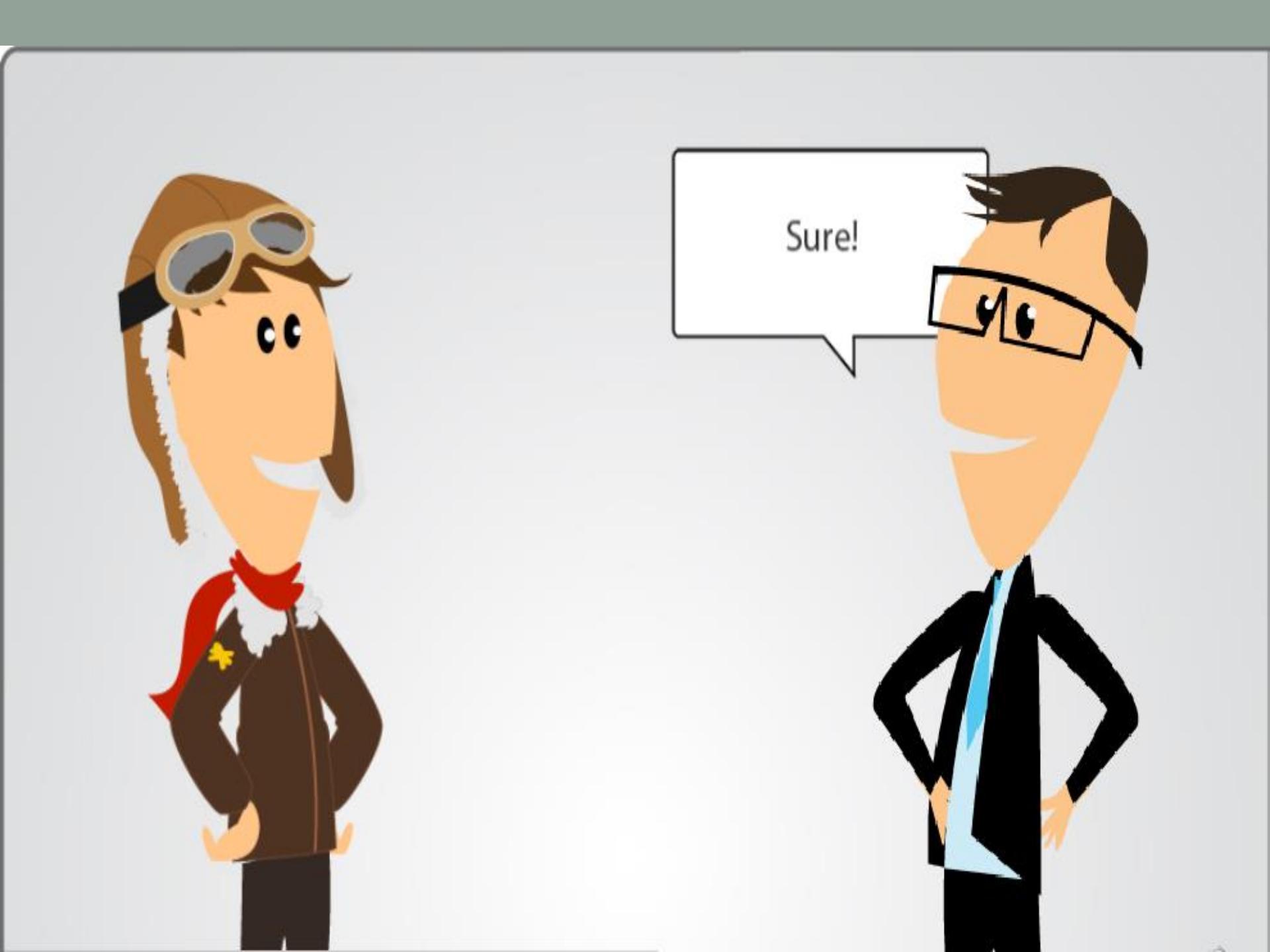
So here's one of the features we built:
students can log in and view their current grades.





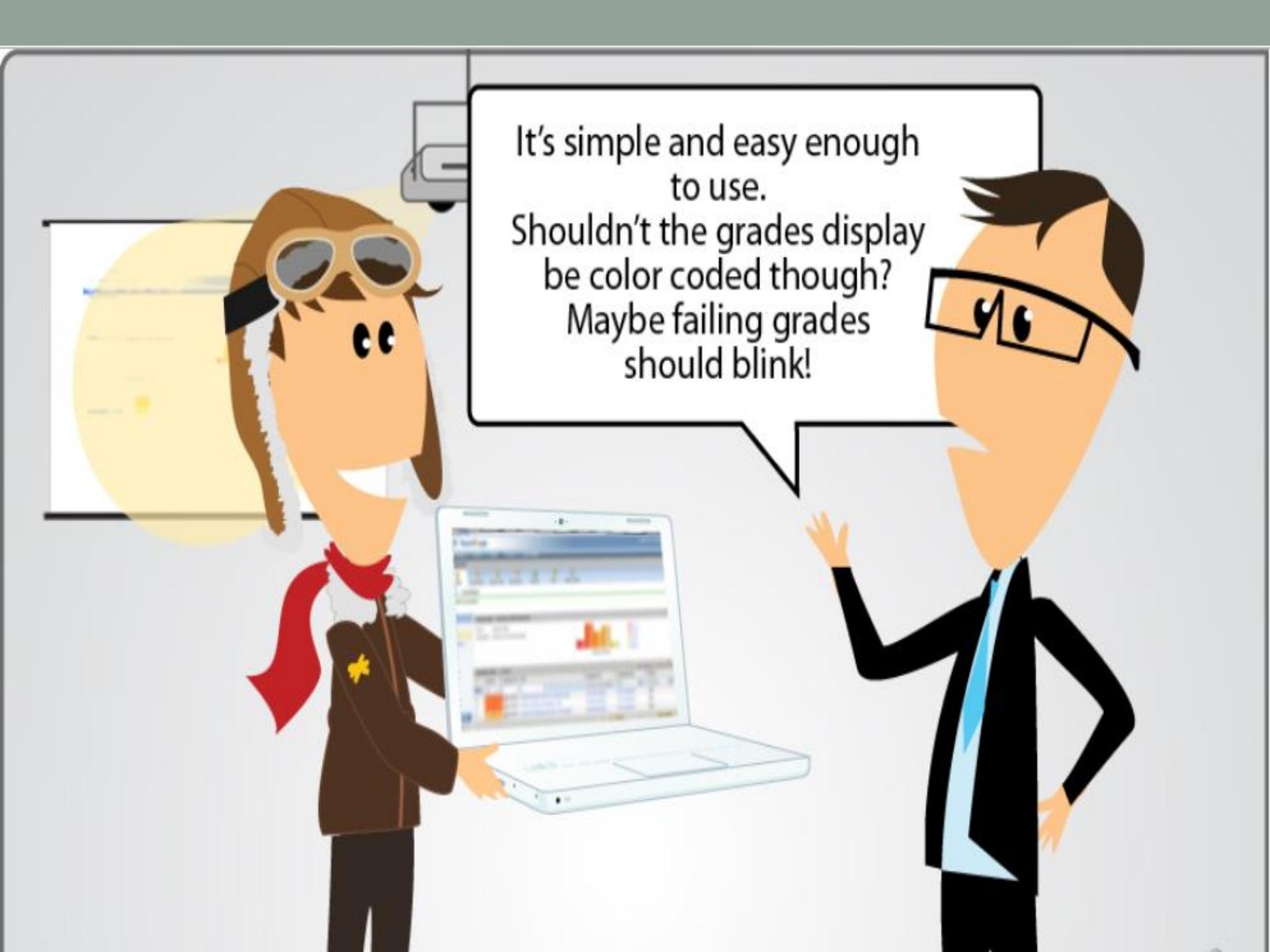
Want to try it?





Sure!





It's simple and easy enough
to use.

Shouldn't the grades display
be color coded though?
Maybe failing grades
should blink!



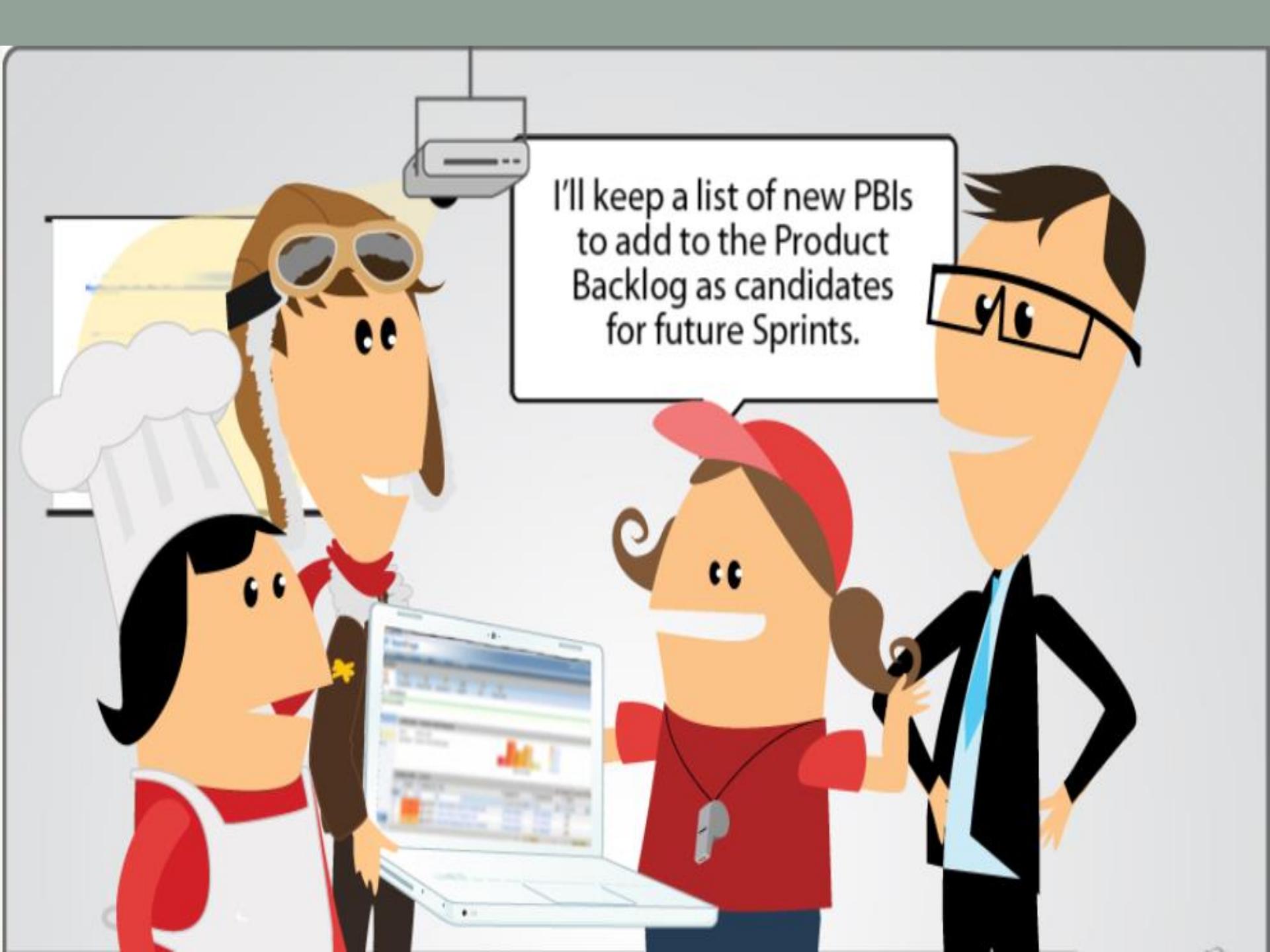
That wasn't what
we agreed!





Fair enough. Is what
you just showed
me properly tested?

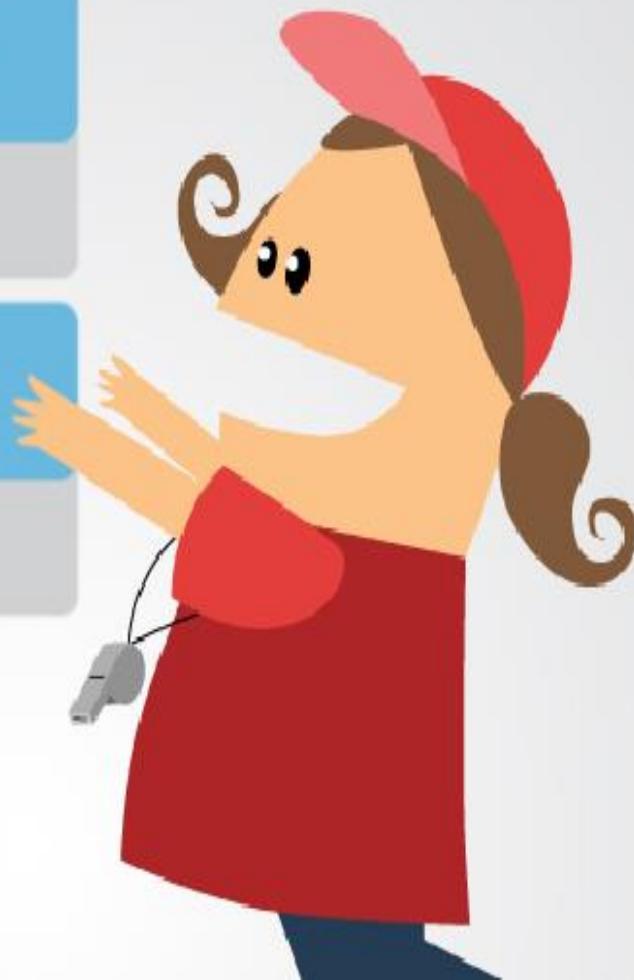
Yes. It has automated regression tests triggered by our Continuous Integration server.



I'll keep a list of new PBIs
to add to the Product
Backlog as candidates
for future Sprints.

Color Coded Grades

Failing Grades Blink



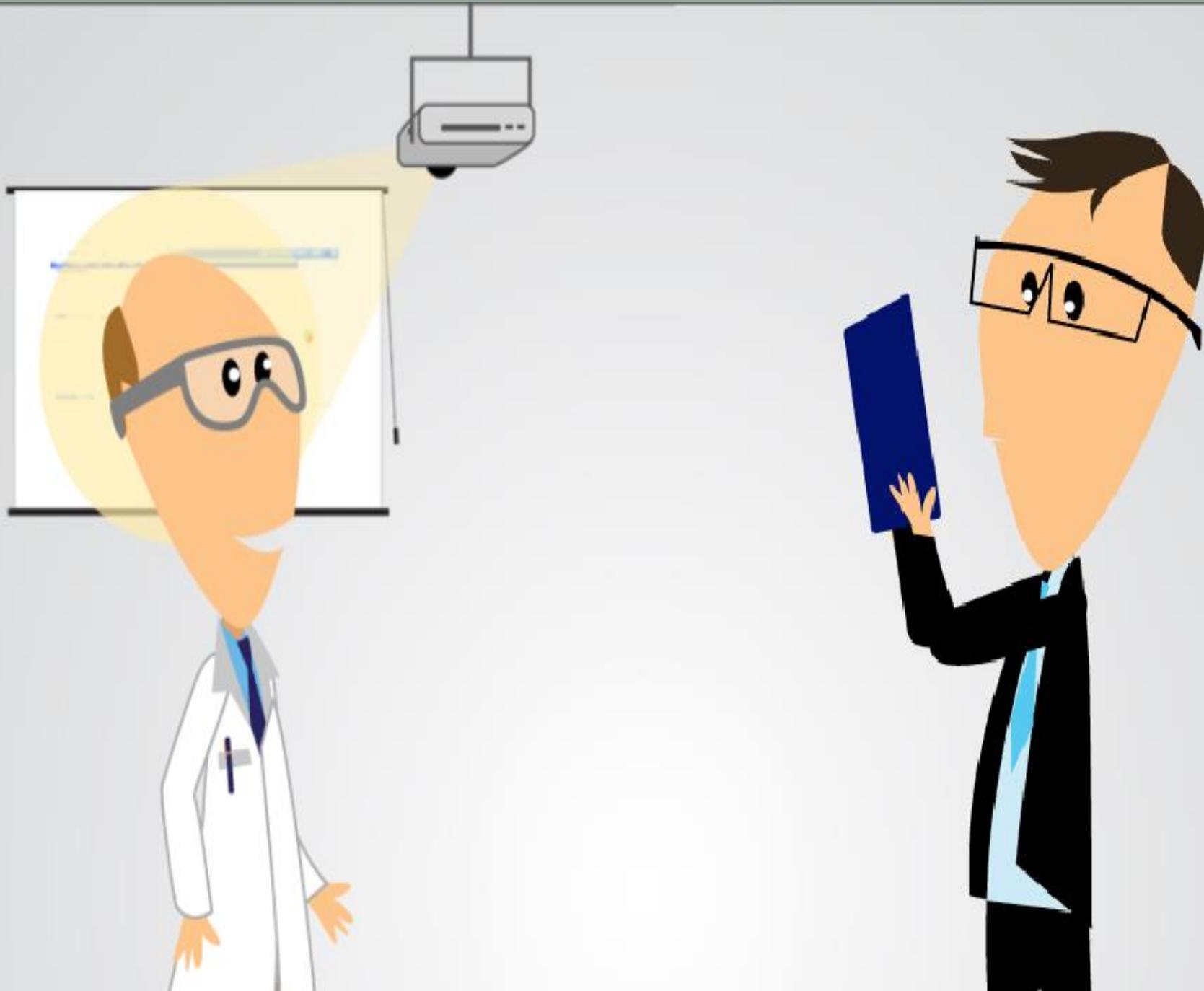


According to the acceptance criteria, we agreed this should work on the iPhone also.



A cartoon illustration depicting a interaction between two characters. On the left, a scientist with orange skin, wearing a white lab coat and safety goggles, holds a blue smartphone with a screen displaying the word "iPhone". A speech bubble above him contains the text "Sure, try it out.". On the right, a businessman with orange skin, wearing a black suit and glasses, stands with one hand on his hip and the other raised in a gesture. In the background, there is a computer server and a yellow circular object.

Sure, try it out.



AGENDA

Now we're up to the second agenda item: Product Owner declares what's done.

- 1) Product demonstration.
- 2) Product Owner declares what's done.
- 3) (Optional) Measure velocity.
- 4) Stakeholder feedback.



SPRINT BACKLOG

COMMITTED BACKLOG ITEM

I declare "View Grades,
current semester" to be
done!



PBIs DONE/VELOCITY

[View Grades, current semester](#)

As a student, I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and iPhone.

EFFORT-SMALL

As a teacher I can update grades online so I no longer depend on administrators to do it for me.

第六輯 結語

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria Calculations
readily on iPhone 4S and iPhone

1100-0000

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Customers also
readily on iPad with iOS 4.1 and iPhone.

1990年 3月

PRODUCT BACKLOG

Update Grades, previous semester

EFFORT: MEDIUM.

Attendance, full time students

EFFORT: SMALL.

Report cards, ugly formatting

EFFORT: SMALL.

Attendance,

EFFORT: MEDIUM

Report cards

Event

Alumni

Color Co

Failing C

Faculty

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

GPA

As a student, I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and JPhone.

EFFORT: SMALL.

Definition of done is much more important than velocity metrics.



PRODUCT BACKLOG

UVONITE MEDICAL

EFFORT SMALL.

EFFORT. SMALL.

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED



I know you worked hard on this but I'm going to call the GPA PBI not done and return it to the Product Backlog.



PRODUCT BACKLOG

Update Grades, previous semester

EFFORT: MEDIUM.

Attendance, full time students

EFFORT: SMALL.

Report cards, ugly formatting

EFFORT: SMALL.

Attendance,

EFFORT: MEDIUM

Report cards

Event

Alumni

Color Co

Failing C

Faculty

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED

GPA

As a student, I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and JPhone.

EFFORT: SMALL.

Maybe not at the very top because I've recently discovered some other things are more important.



BACKLOG

PENDING ITEMS

What should we do with these old tasks?

NOT STARTED

IN PROGRESS

COMPLETED

EFFORT: SMALL.

Report cards, ugly formatting

EFFORT: SMALL.

Attendance, part time students

EFFORT: MEDIUM.

GPA

EFFORT: SMALL.

Report cards, pretty formatting

Event Calendar

Alumni Archives

Color Coded Grades

Failing Grades Blink



PRODUCT BACKLOG

Update Grades, previous semester

EFFORT: MEDIUM.

Attendance, full time students

EFFORT: SMALL.

Report cards, ugly formatting

EFFORT: SMALL.

Attendance, part time students

EFFORT: MEDIUM.

GPA

EFFORT: SMALL.

Report cards, pretty formatting

Event Calendar

Alumni Archives

Color Coded Grades

Failing Grades Blink

SPRINT BACKLOG

COMMITTED BACKLOG ITEMS

NOT STARTED



I usually tear them up. What matters is which PBIs got done.





AGENDA

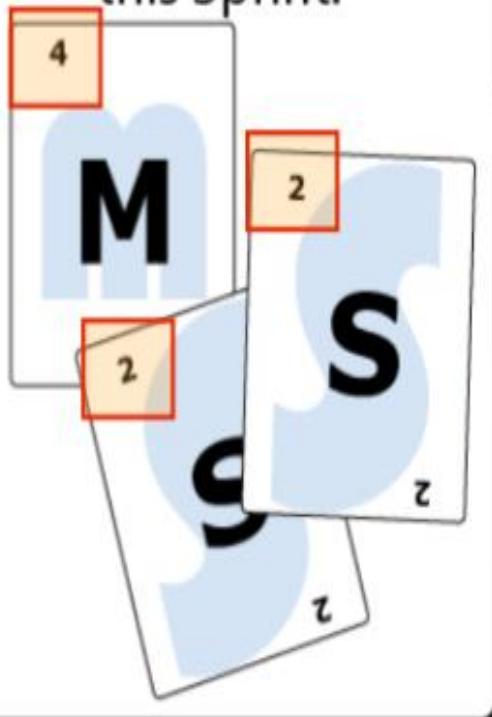
Now we are up to the third agenda item: Measure velocity. This isn't part of Scrum, but it can sometimes be useful.

- 1) Product ~~communication~~.
- 2) Product Owner declares what's done.
- 3) (Optional) Measure velocity.
- 4) Stakeholder feedback.



PBIs DONE/VELOCITY

Using our relative sizing numbers, our velocity works out to 8 story points this Sprint.



$$4 + 2 + 2 = 8$$



View Grades, current semester

As a student, I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on Fingerfly 4.1 and iPhone.

EFFORT: SMALL

Update Grades, current semester

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM

View Grades, previous semester

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on Fingerfly 4.1 and iPhone.

EFFORT: SMALL

PBIs DONE/VELOCITY



View Grades, current semester

As a student, I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and iPhone.

EFFORT: SMALL.

Update Grades, current semester

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM.

View Grades, previous semester

As a student I can see my previous semester grades online so that, I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and iPhone.

EFFORT: SMALL.

8 Story Points

PBIs DONE/VELOCITY



What does that
mean?

View Grades, current semester

As a student, I can see my grades online so that I don't have to wait until I get to school to know whether I'm passing.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and iPhone.

EFFORT: SMALL.

Update Grades, current semester

As a teacher, I can update grades online so I no longer depend on administrators to do it for me.

EFFORT: MEDIUM.

View Grades, previous semester

As a student I can see my previous semester grades online so that I don't have to wait until I get to school to know my previous grades.

Acceptance Criteria: Columns align neatly on FingerFly 4.1 and iPhone.

EFFORT: SMALL.

8 Story Points

PRODUCT BACKLOG

Update Grades, previous semester

EFFORT: MEDIUM.

Attendance, full time students

EFFORT: SMALL.

Report cards, ugly formatting

EFFORT: SMALL.

Attendance, part time students

EFFORT: MEDIUM.

GPA

EFFORT: SMALL.

Report cards, pretty formatting

Event Calendar

Alumni Archives

Color Coded Grades

Failing Grades Blink

Not much right now. If it stays stable for several Sprints it may eventually help you forecast how far down the Product Backlog you'll get before the release date.



AGENDA

Let's get stakeholder feedback about the product.

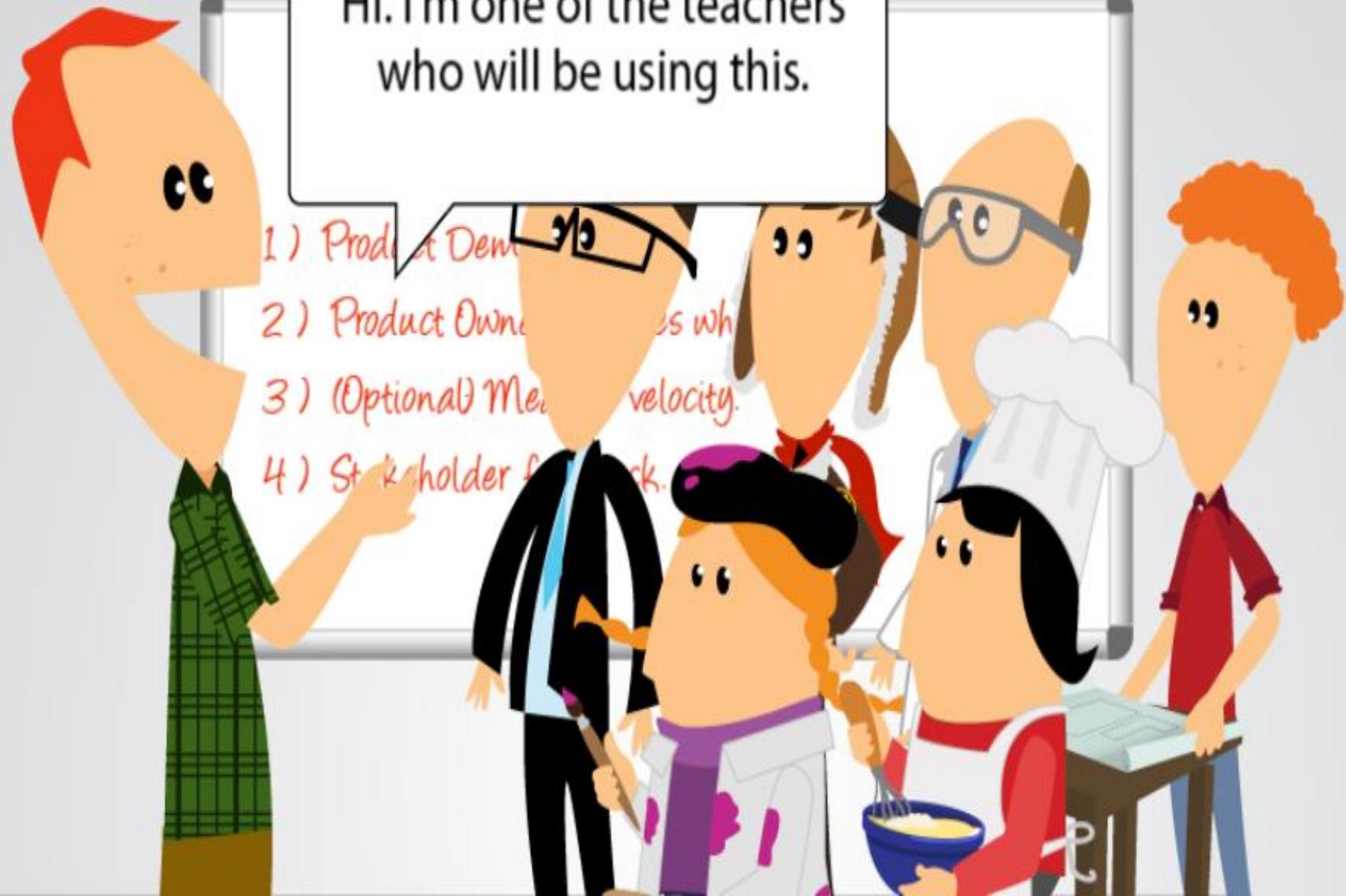
- 1) Product Demons
- 2) Product Owner declares what's done.
- 3) (Optional) Measure velocity.
- 4) Stakeholder feedback.



AGENDA

Hi. I'm one of the teachers
who will be using this.

- 1) Product Dem...
- 2) Product Owner ... is wh...
- 3) (Optional) Me... velocity.
- 4) Stakeholder fo...



AGENDA

I don't like the user interface.

- 1) Product Demands
- 2) Product Owner
- 3) (Optional) Metrics
- 4) Stakeholder Feedback



AGENDA

What don't
you like?

-
- 1) Product Demos
 - 2) Product Owner
 - 3) (Optional) Me
 - 4) Stakeholder fo

It's convenient for updating one student's grade at a time, but seeing this caused me to realize I'd rather enter a whole class's grades at once.

- 1) Product Owner
- 2) Product Owner
- 3) (Optional) Metrics
- 4) Stakeholder Feedback

I don't want to go back
and forth selecting
each student.

- 1) Product Demos
- 2) Product Owner
- 3) (Optional) Meets
- 4) Stakeholder f

AGENDA

But that's what you
asked for.

- 1) Product Demos
- 2) Product Owner
- 3) (Optional) Me
- 4) Stakeholder



It's what I originally asked for,
but your demo helped me
realize what I actually want.

- 1) Product Demo
- 2) Product Owner
- 3) (Optional) Metrics
- 4) Stakeholder feedback

Can I add items to the Product Backlog?

- 1) Product Dem
- 2) Product Owner
- 3) (Optional) Me
- 4) Stakeholder f

AGENDA

Yes, anyone here can submit PBIs, and the Product Owner prioritizes them.

-
- 1) Product Dem...
 - 2) Product Owner...
 - 3) (Optional) Me...
 - 4) Stakeholder f...

PRODUCT BACKLOG

Update Grades, previous semester

EFFORT: MEDIUM.

Attendance, full time students

EFFORT: SMALL.

Report cards

EFFORT: SMALL.

Attendance

EFFORT: MEDIUM

EFFORT: SMALL

Report cards, pretty formatting

Event Calendar

Alumni Archives

Color Coded Grades

Failing Grades Blink

This seems pretty important, so I'll put it on top for now.

Update Multiple Grades

As a teacher I want to enter a whole class's grades at once to save steps.



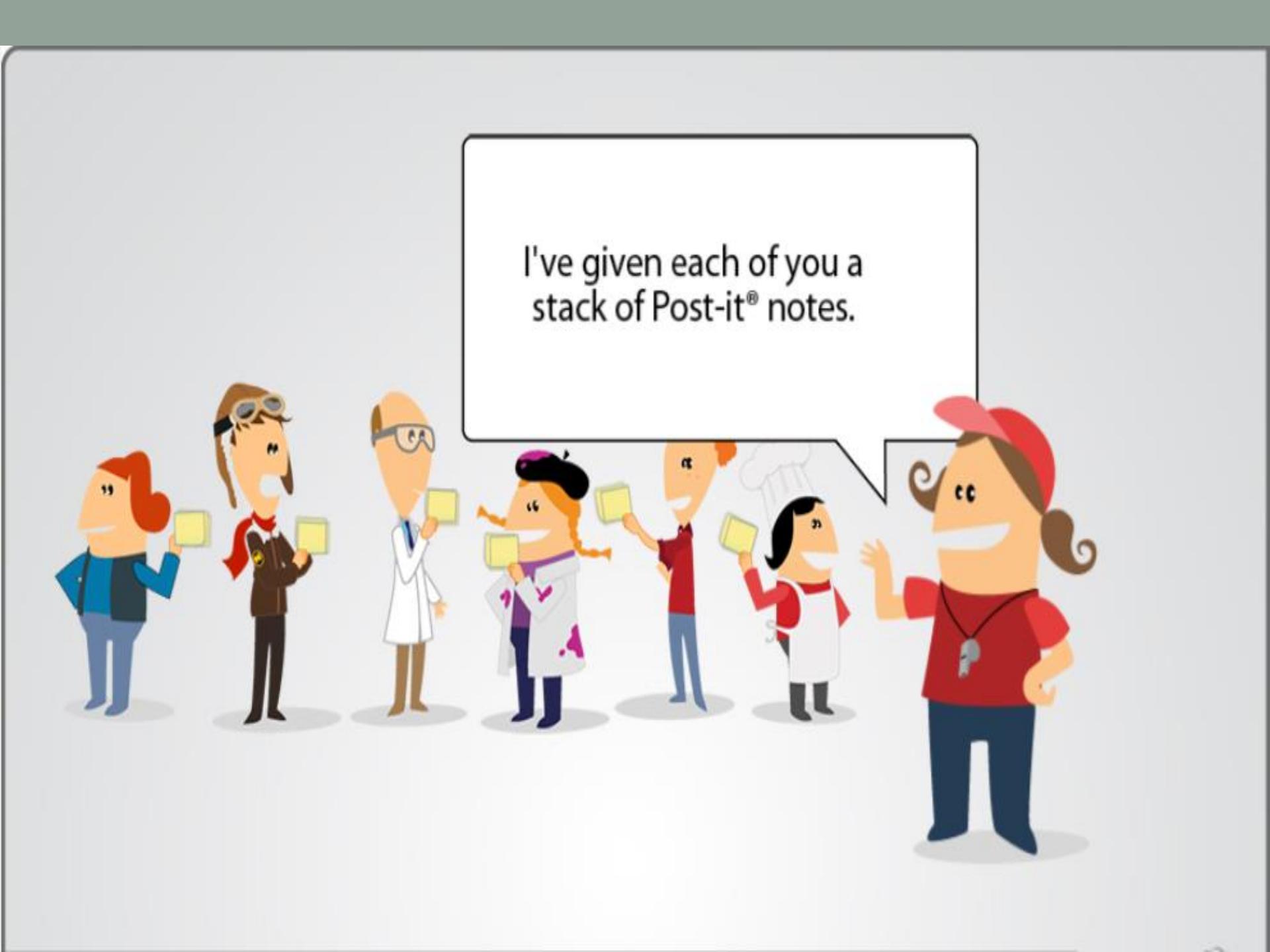


Scrum Training Series

1. Introduction to Scrum
2. Backlog Refinement Meeting
3. Sprint Planning Meeting
4. Daily Scrum Meeting
5. Sprint Review Meeting
6. Sprint Retrospective Meeting



Silent Writing



I've given each of you a stack of Post-it® notes.



I'd like you to spend ten minutes writing one observation per Post-it® note about the previous Sprint.



Write them down whether they're good, bad, or neutral, and don't worry about categorizing them yet.



Hold off on discussing them
until everyone's done writing.



When you get stuck, consider writing down the things you weren't sure whether to write.





When you're ready, stick
your notes on the board
here and have a
conversation about them.





Make sure none of them are ignored. If you like, you can group the related ones.



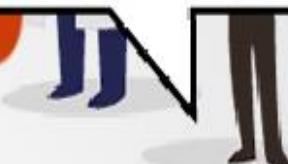


Has everyone had a
chance to talk about the
things they wrote?





Now work out some agreed actions to take for future Sprints, based on your shared understanding.





Yes, writing down agreements is a way to confirm you understand each other. However, since you own your internal agreements they don't have to leave this room.

References

- <http://scrumtrainingseries.com/>
- <https://www.mountaingoatsoftware.com/presentations/an-introduction-to-scrum>
- <https://www.slideshare.net/srikanthps/scrum-in-15-minutes-presentation>

Scrum Reference Card
by Michael James and Luke Walter

About Scrum

A Management Framework

Scrum is a management framework for incremental product development using one or more cross-functional, self-organizing teams of about seven people each.

It provides a structure of roles, meetings, rules, and artifacts. Teams are responsible for creating and adapting their processes within this framework.

Scrum uses fixed-length iterations, called Sprints. Sprints are no more than 30 days long, preferably shorter. Scrum teams try to build a potentially releasable (properly tested) product increment every Sprint.

An Alternative to Waterfall

Scrum's incremental, iterative approach trades the traditional phases of "waterfall" development for the ability to develop a subset of high-value features first, incorporating feedback sooner.

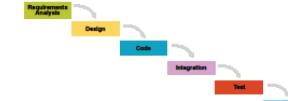


Figure 11: Traditional "waterfall" development depends on a perfect understanding of the product requirements at the outset and minimal errors occurring enroute.

Scrum Roles

Scrum Development Team

- Cross-functional (e.g., includes members with testing skills, and others not traditionally called developers: business analysts, designers, domain experts, etc.)
- Self-organizing / self-managing, without externally assigned roles
- Plans one Sprint at a time with the Product Owner
- Has autonomy regarding how to develop the increment
- Intensely collaborative
- Most successful when located in one team room, particularly for the duration of Sprints
- Most successful with long-term, full-time membership. Scrum moves work to a flexible learning team and avoids moving people or splitting them between teams.
- 6-9 members
- Has a leadership role

Product Owner

- Single person responsible for maximizing the return on investment (ROI) of the development effort
- Represents the customer
- Constantly prioritizes the Product Backlog, adjusting any long-term expectations such as release plans
- Final arbiter of requirements questions
- Decides whether to release
- Decides whether to continue development
- Considers stakeholder interests
- May contribute as a team member
- Has a leadership role

Scrum Master

- Works with the organization to make Scrum possible
- Ensures Scrum is understood and enacted
- Creates an environment conducive to team self-organization
- Shields the team from external interference and distractions to keep it in group flow (a.k.a. the zone)
- Promotes improved engineering practices
- Has no management authority over the team
- Helps resolve impediments
- Has a leadership role



Figure 12: Scrum blends all development activities into each iteration, adapting to discovered realities at fixed intervals.

The greatest potential benefit of Scrum is for complex work involving knowledge creation and collaboration, such as new product development. Scrum is usually associated with object-oriented software development. Its use has also spread to the development of products such as semiconductors, mortgages, and wheelchairs.

Doing Scrum, or Pretending to Do Scrum?

Scrum's relentless reality checks expose dysfunctional constraints in individuals, teams, and organizations. Many people claiming to do Scrum modify the parts that require breaking through organizational impediments and end up robbing themselves of most of the benefits.

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Thank You