

Creating Essential Scrum Artifacts



William W. Davis, MSPM, PSM

AGILIST

@famousdavis www.famousdavis.com



A Sample PSM Exam Question

Which of the following are Scrum artifacts?

- a) Product Backlog
- b) User story map
- c) Sprint Backlog
- d) Sprint burndown chart
- e) Test strategy
- f) Definition of “Ready”
- g) Product Increment
- h) Project charter
- i) User guide
- j) Definition of “Done”



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- ~~j) Definition of “Done”~~



The Product Backlog



“The Product Backlog is an ordered list of everything...”

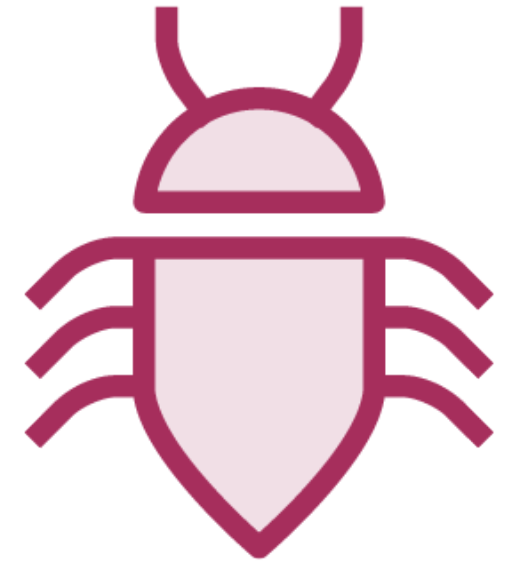
The Scrum Guide (November 2017)



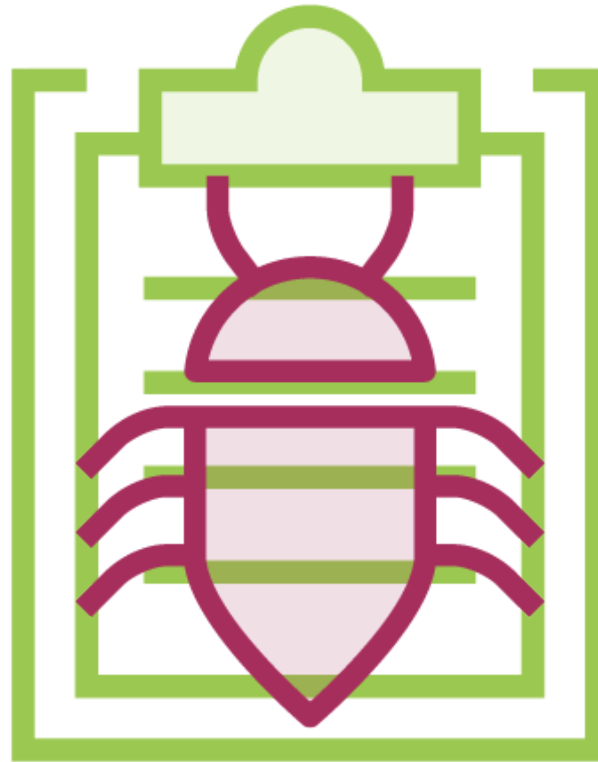
The Product Backlog



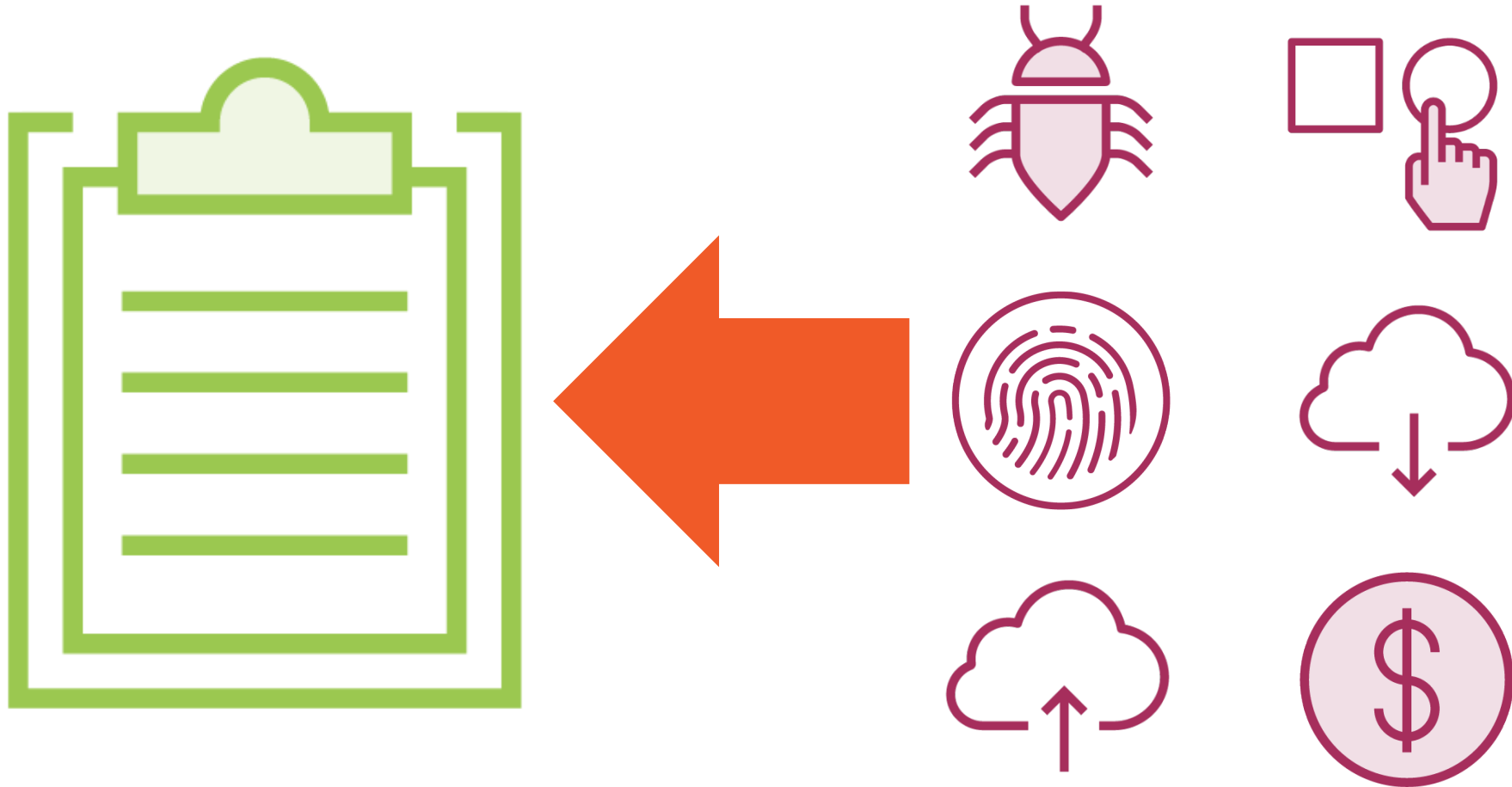
The Product Backlog



The Product Backlog



The Product Backlog – A Complete Artifact



The Product Backlog – A Living Artifact



The Product Backlog - A Living Artifact



A Sample PSM Exam Question

Identify all of the required attributes of a properly-created Product Backlog item?

- a) Description
- b) Unique identifier
- c) Assigned to
- d) Value
- e) Estimate
- f) Acceptance criteria
- g) Order



A Sample PSM Exam Question

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A Sample PSM Exam Question

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Description

Order

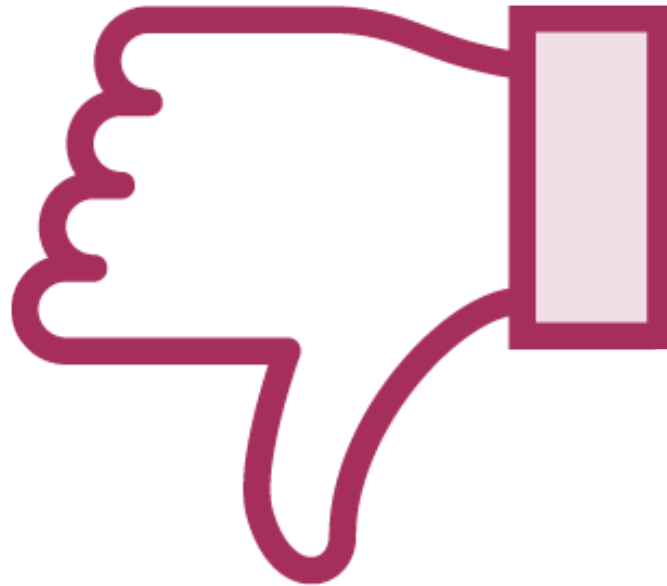
Value

Estimate



Description – True or False?

Product Backlog items should be expressed in user story format for all new functions or feature requests



Product Backlog Item - Description

Product Backlog

As a parent,...

Fix bug #65

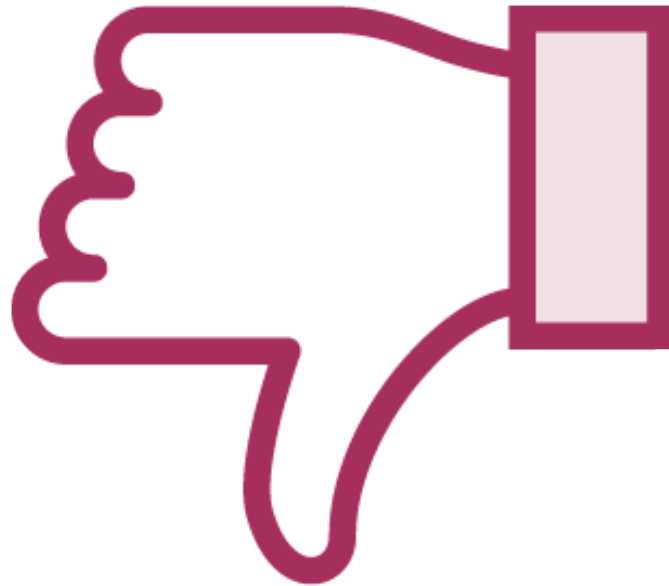
As a teacher,...

As a student,...



Description – True or False?

The Product Owner will order the Product Backlog so the Development Team will tackle the easiest items, first, then work on harder, more time-consuming items in later sprints



Decompose Highest-ordered Items

Items ordered highest on the Product Backlog must be sufficiently decomposed so they can be completed within a single sprint



Expressing Value on Product Backlog Items

0 - 100

High, Medium,
Low

Weighted Shortest
Job First (WSJF)

MoSCoW

Return on
Investment (ROI)

Other



Ordering the Product Backlog

The Product Owner orders the items in the Product Backlog to best achieve goals and missions



Ordering the Product Backlog

Product Backlog

As a parent, I want to use a credit card to pay for my child's soccer club membership, so my child can participate in youth soccer for the upcoming soccer season

“High” value

As a parent, I want to verify the payment amount before the soccer club charges my credit card, so that I know what the authorized charge will be on my credit card

“Low” value



Ordering the Product Backlog

Product Backlog



Estimates Come from the Development Team



Development Team



Expressing Estimates on Product Backlog Items

**Tee-Shirt Sizes
(S, M, L, XL)**

**Ideal Days,
Ideal Hours**

Story Points



#NoEstimates



Estimates Come From the Development Team



Product Owner



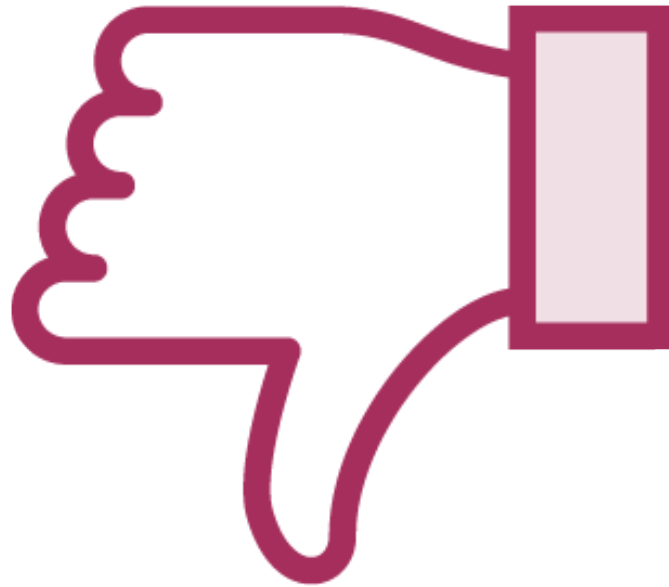
Scrum Master



Development Team

Multiple Product Backlogs – True or False?

When many Scrum Teams work to build a single product, they should each have their own Product Backlog to work from



Product Backlog Recap



Product Owner



Scrum Master



Development Team



The Sprint Backlog



Sprint Planning's Two Topics

What can we do?



How will we do it?



Sprint Backlog Answers Two Questions

What + How = Sprint Backlog



Sprint Planning's Two Topics

What can we do?



How will we do it?



Sprint Backlog Tasks Are Small



Ideally, Sprint Backlog tasks are decomposed so they can be finished in a business day

This helps the Scrum Team see clearly what was done, and what needs to be done



Sprint Backlog Tasks Are Small



**Create the database
schema**

(8 hours)

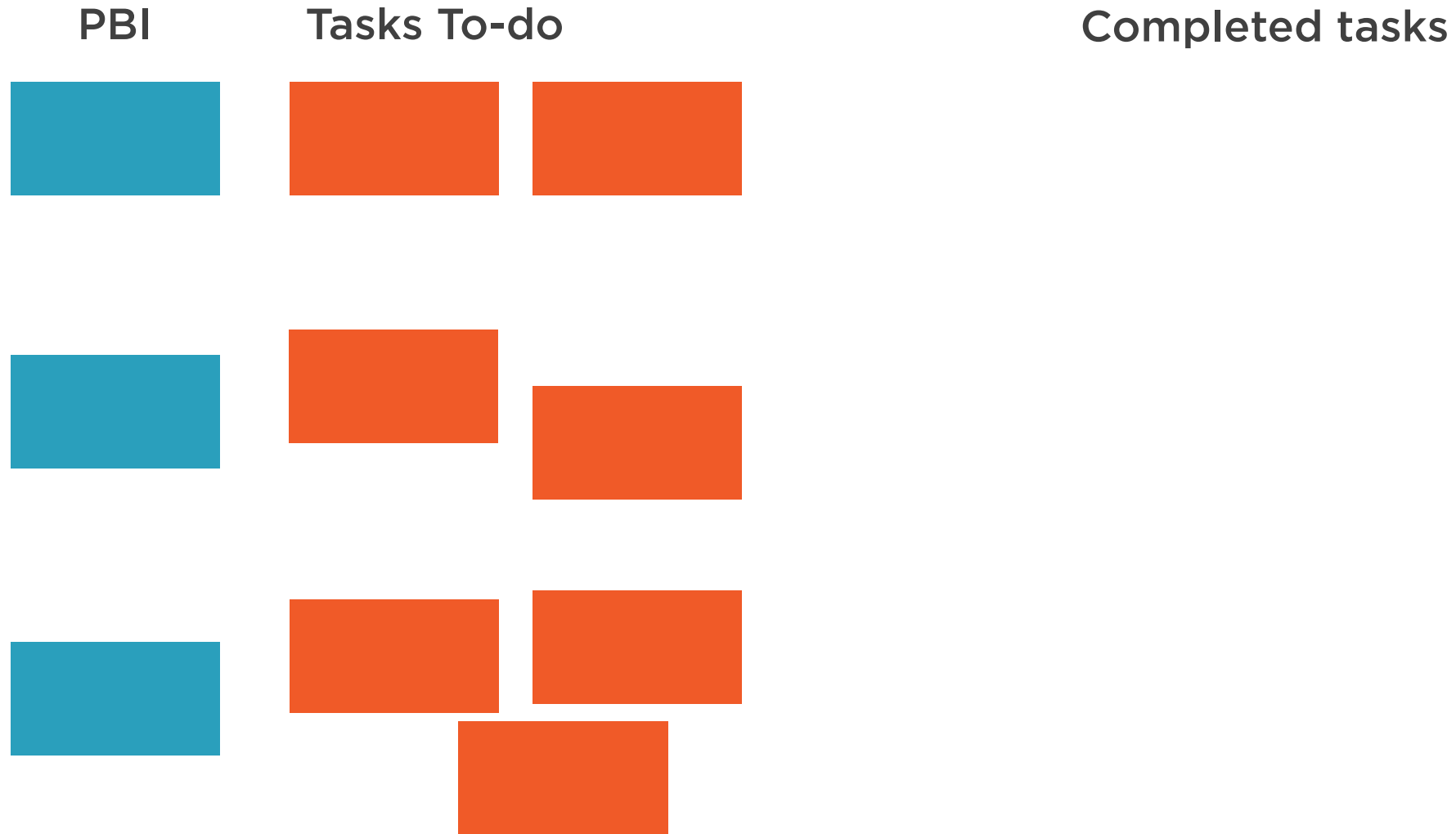


“The Sprint Backlog is a plan with enough detail that changes in progress can be understood in the Daily Scrum.”

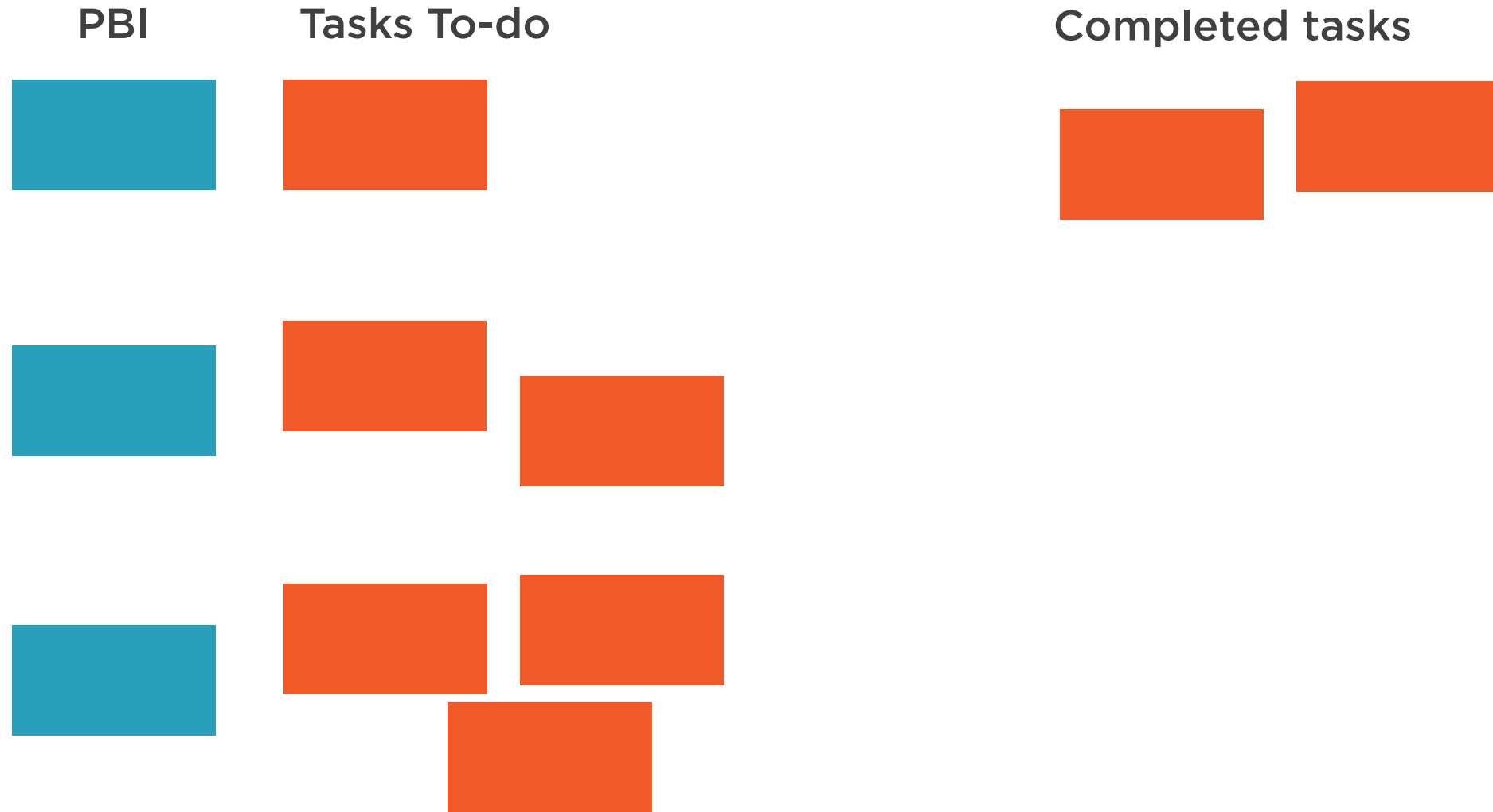
The Scrum Guide (November 2017)



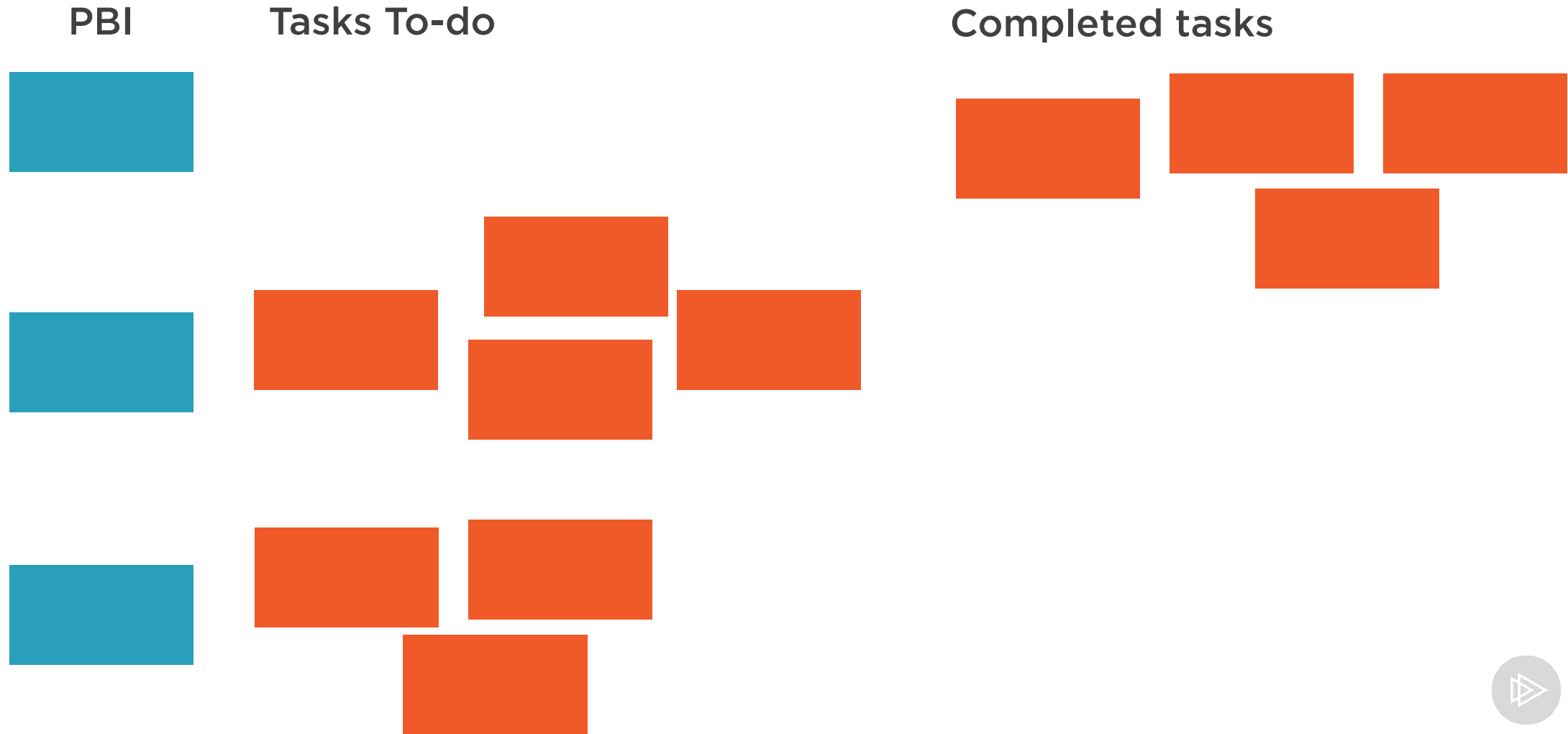
The Sprint Backlog Emerges During the Sprint



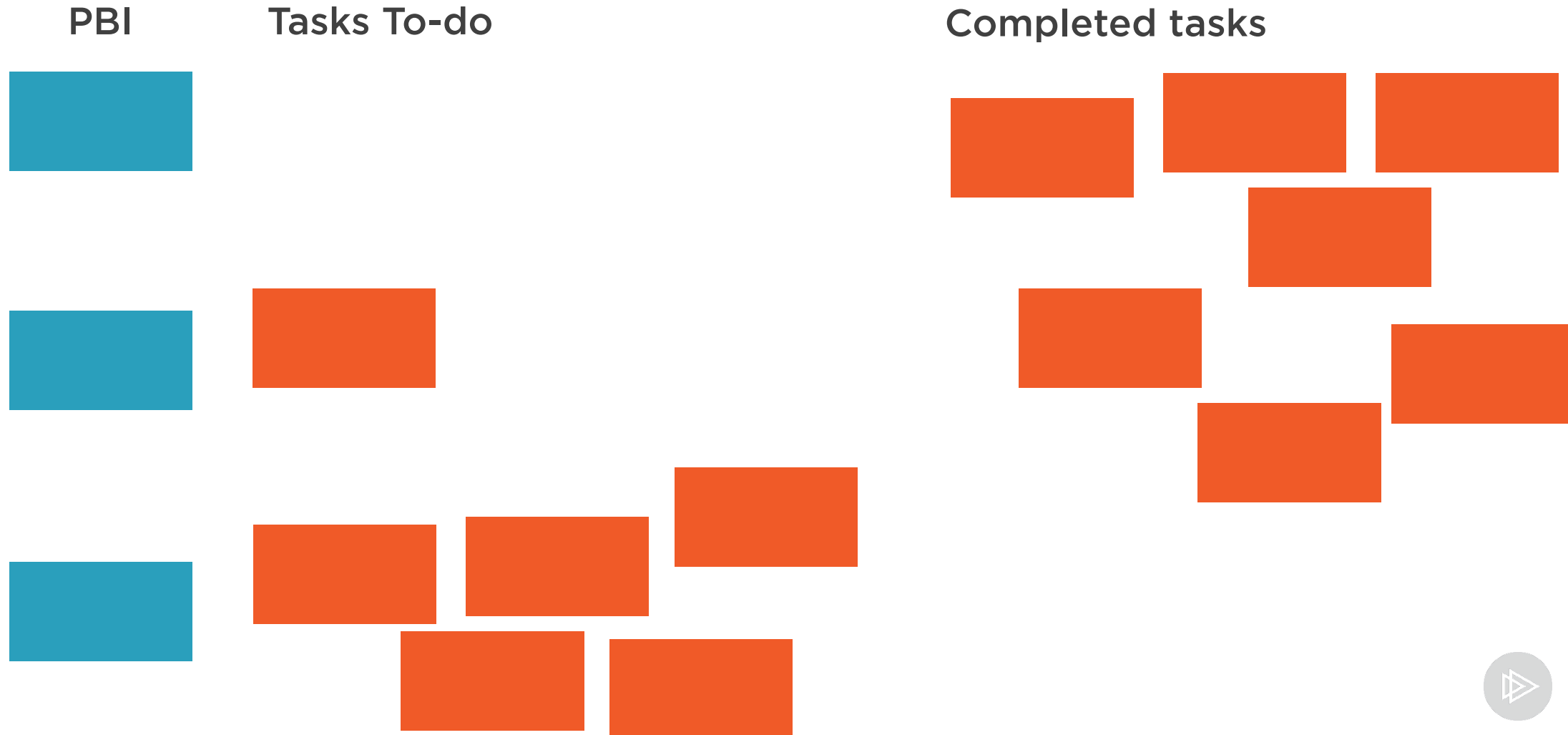
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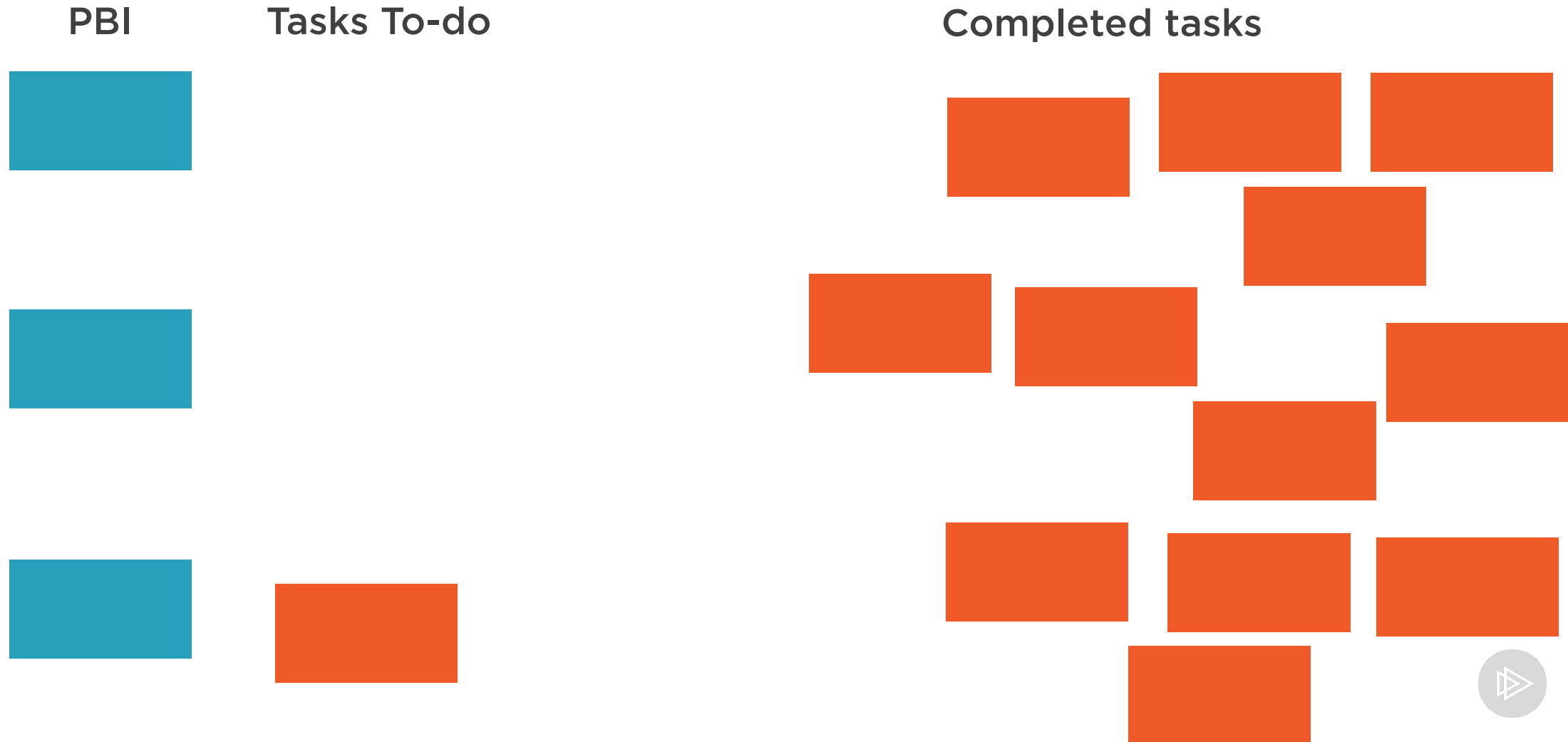
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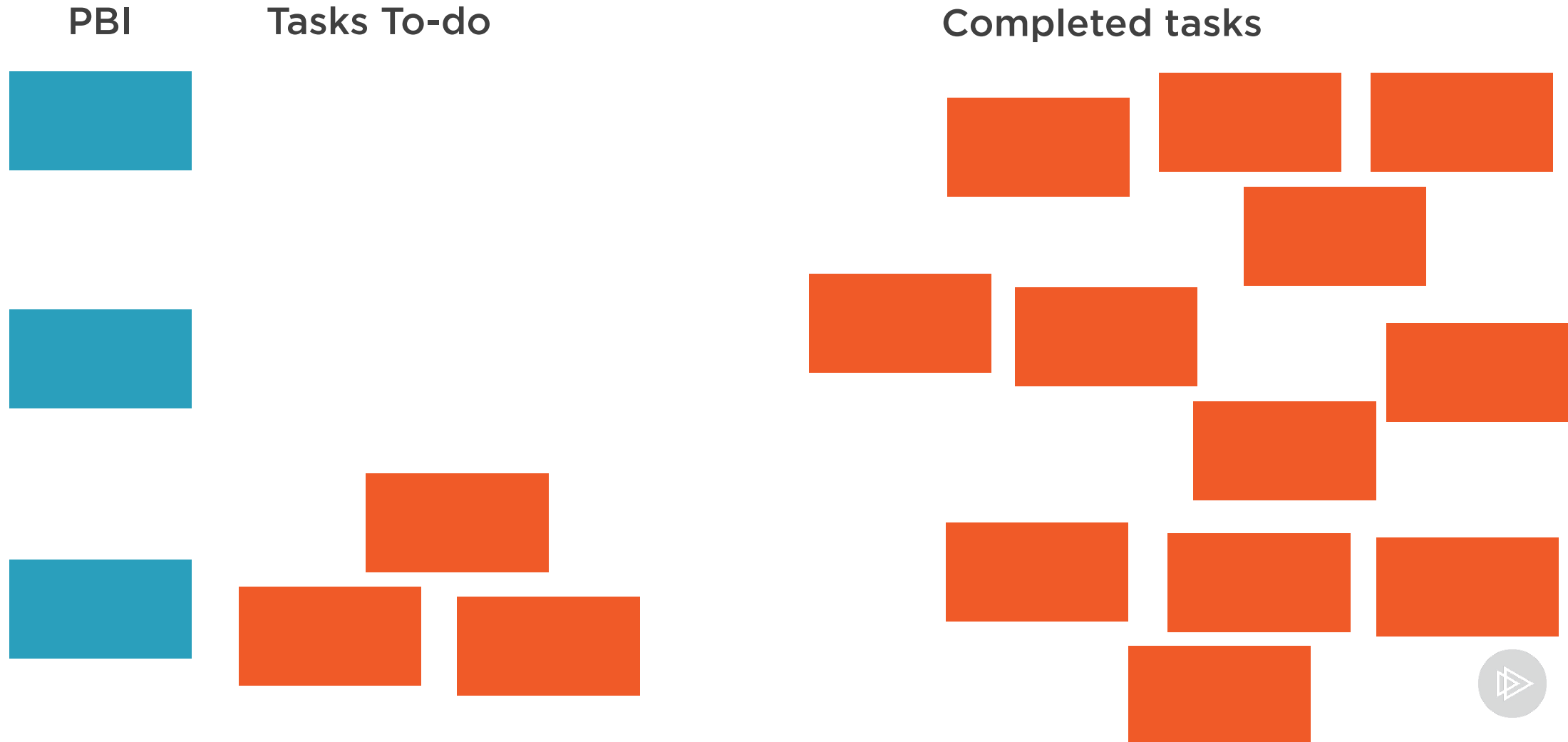
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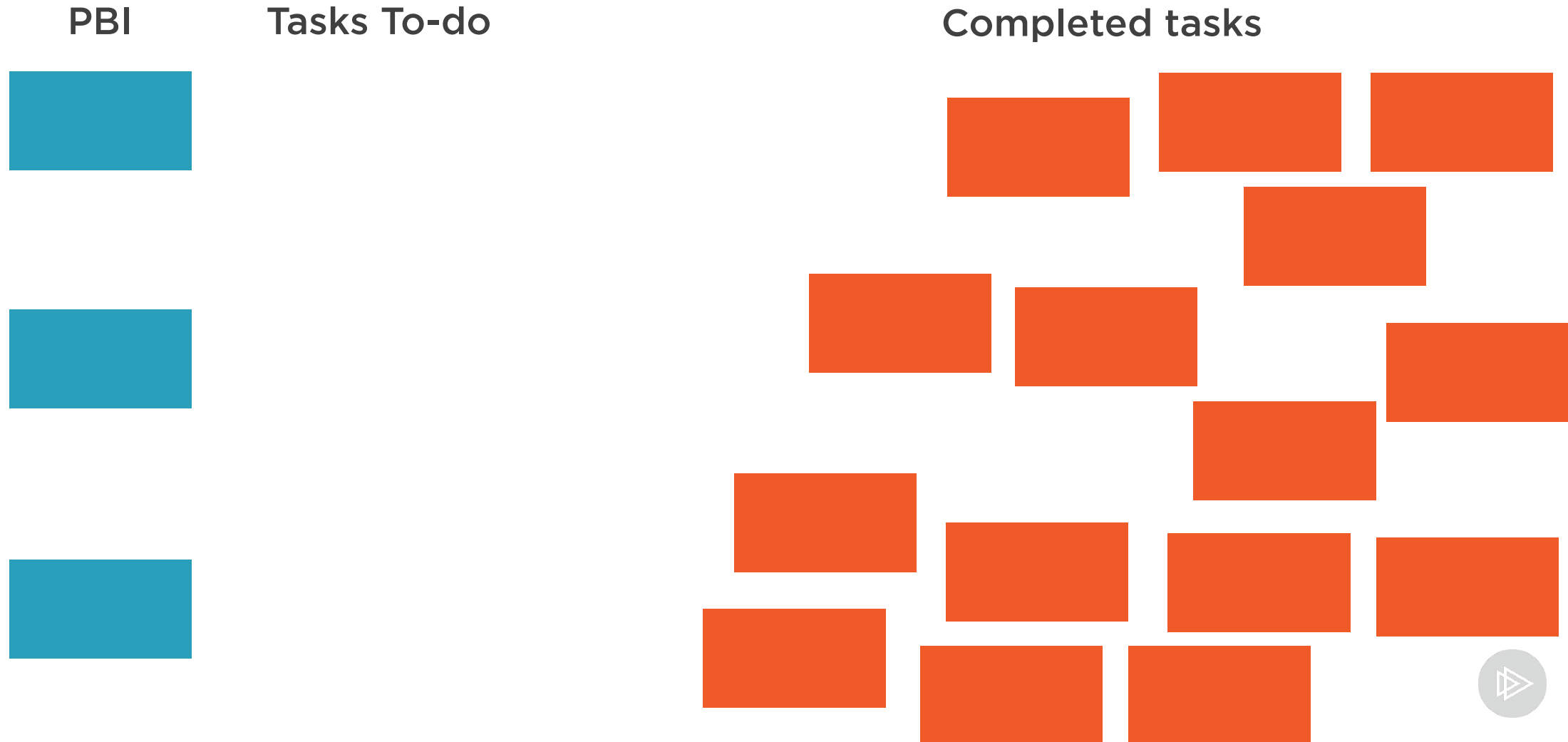
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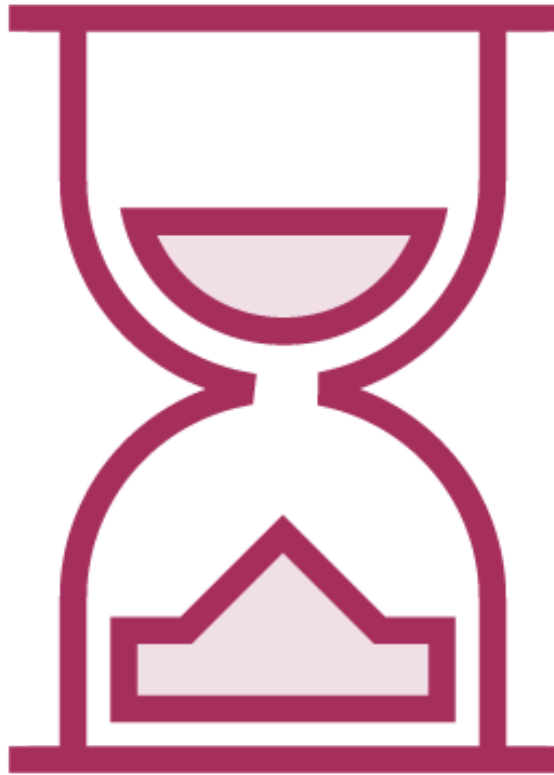
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The Sprint Backlog Emerges During the Sprint



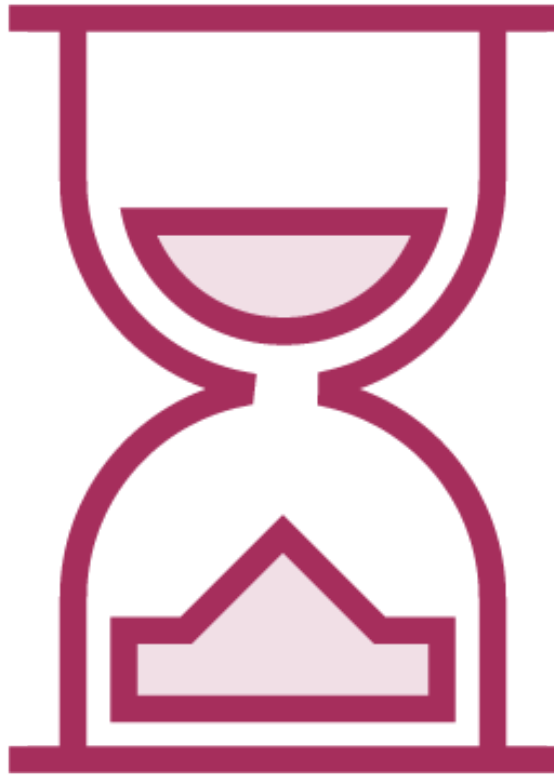
Sprints Are Time-boxed



**The Scrum Team has a
specific time-box to
work on all their tasks**



Development Teams Have Limited Capacity

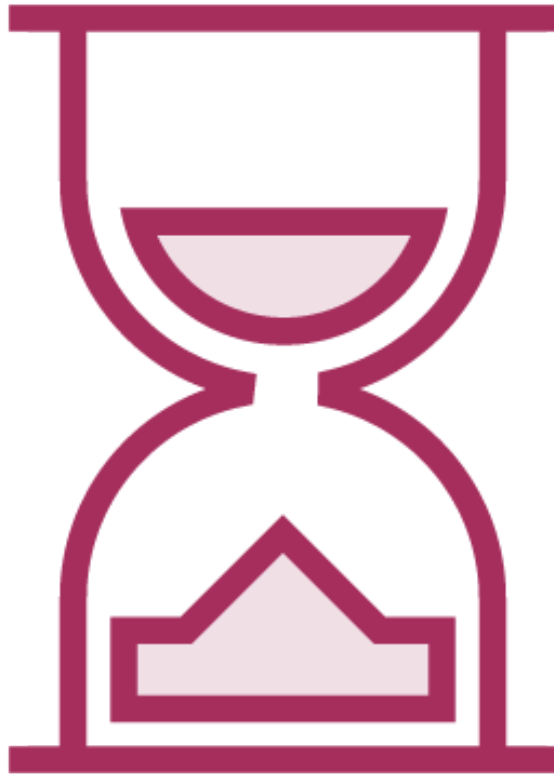


5 Development Team members
2-week sprints
40-hour work week

$5 \times 2 \times 40 = 400$ hours



Development Teams Have Limited Capacity



5 Development Team members
2-week sprints
40-hour work week

$5 \times 2 \times 40 = 400$ hours
300 hours



Sprint Burn-Down Charts

Useful



But
Not
Required



The Product Increment and the Definition of “Done”



“The sum of all the Product Backlog items completed during a Sprint and the value of the increments of all previous Sprints.”

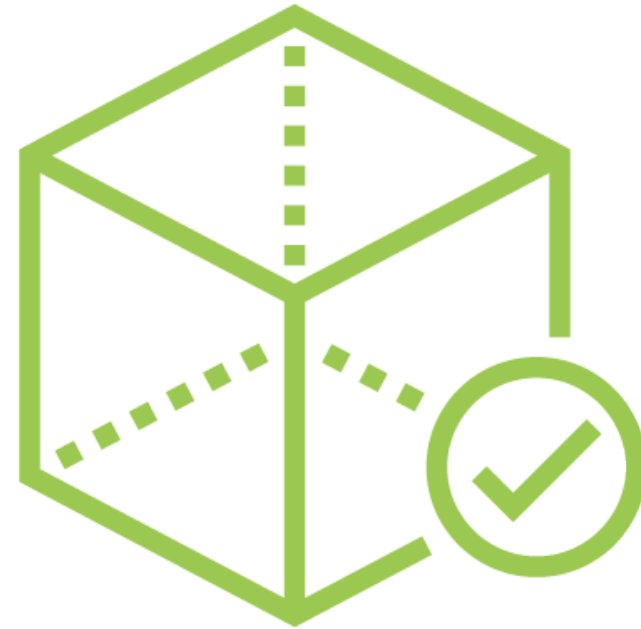
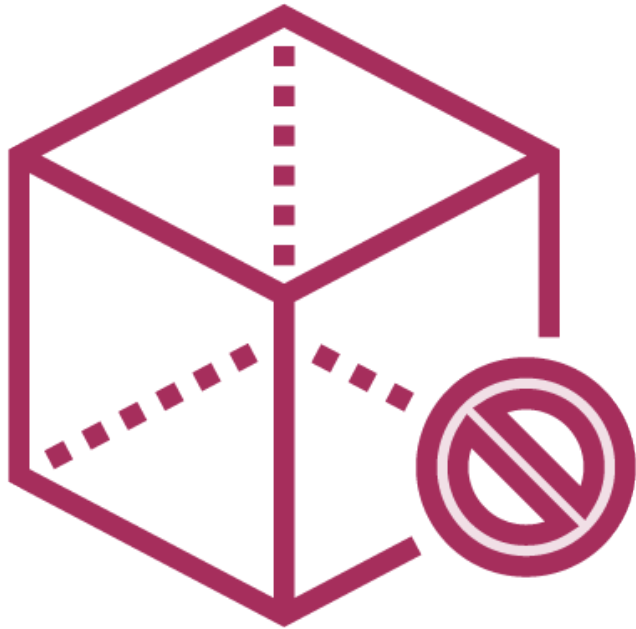
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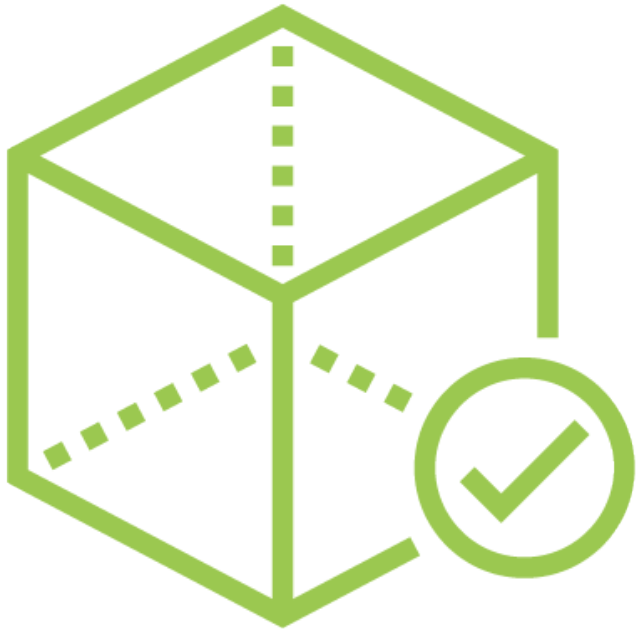
Potentially releasable
Increment of "Done"
product



The Definition of “Done” in Scrum

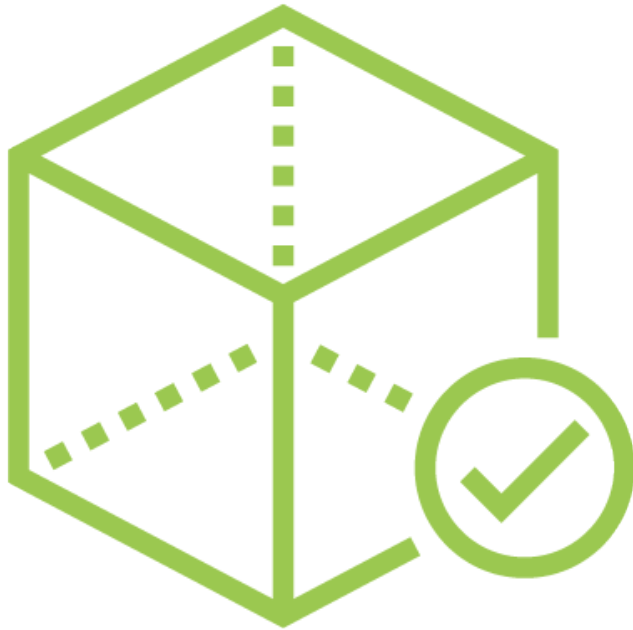


The Definition of “Done” in Scrum



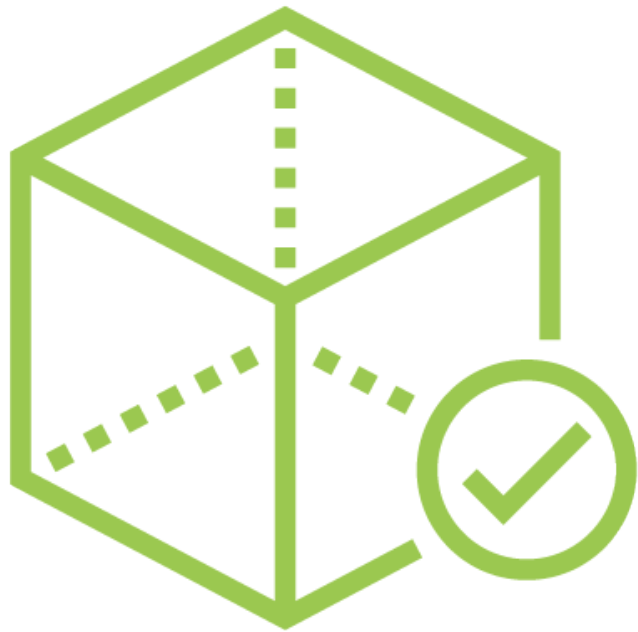
- Conventions
- Standards
- Guidelines
- Policies

Evaluate the DoD in Sprint Retrospective



Scrum Teams evaluate and strengthen their Definition of Done during the **Sprint Retrospective** event

The Definition of “Done” for the Product Backlog



Definition of Done



Product Backlog



All new code is either peer-reviewed or pair programmed

All system documentation reflects any necessary changes

All new code has automated unit test cases written for it

After merging, all new code must successfully pass all the system's automated test cases

The PO has personally reviewed and approved the work listed on the PBI



The Definition of “Done” is
not a Scrum artifact.



Who Defines the Definition of “Done”?



Product Owner



Scrum Master



Development Team

Multiple Teams Use the Same Definition of “Done”



Development Team “A”



Development Team “B”

Summary



3 Scrum Artifacts

- Product Backlog
- Sprint Backlog
- Product Increment

Plus, the Definition of “Done”

