Module 5 – Topic 5.2

Managing Project Plan

Topic Outline

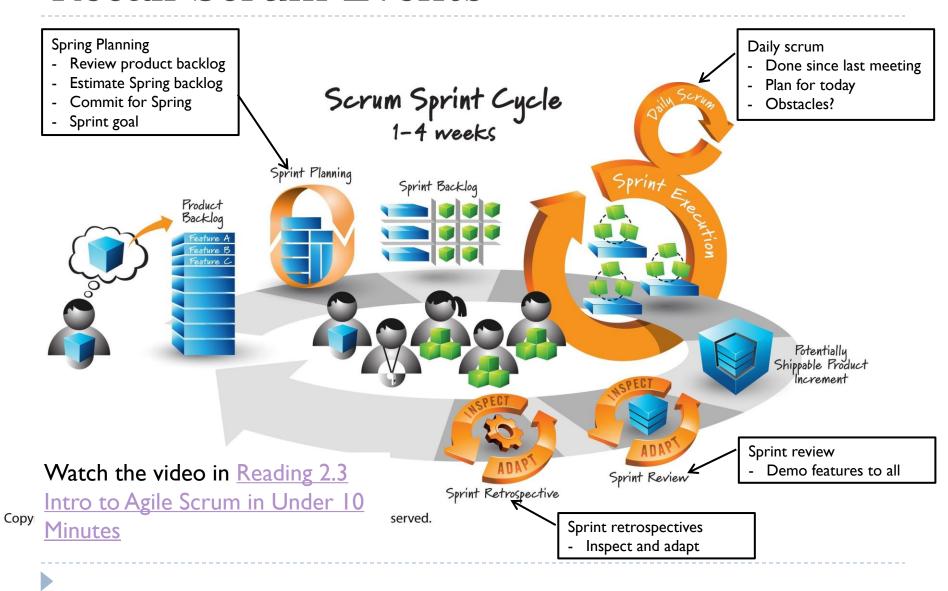
- Daily scrum
- Velocity and burndowns for both releases and iterations



Daily Scrum

Occurs on each work day with the development team

Recall Scrum Events



Daily Scrum Rules

- ▶ This meeting is strictly time-boxed at 15 minutes
- This meeting should happen at the same place at the same time each day
- ▶ Participants stand in a circle and answer three questions
 - This is why it is also called daily standup
- Not intended to be a status meeting for product managers or product owners to determine progress
 - For status updates, use progress tracking practices such as iteration burndowns



Answer Three Questions in Daily Scrum

What did you accomplish yesterday?

• e.g., yesterday I had a productive day and completed all the unit tests for the user profile page

What will you do today?

 e.g., today I am going to start writing the source code for that feature

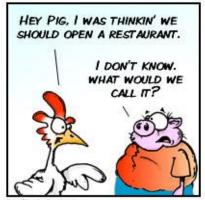
Are there any impediments in your way?

• e.g., I am not that familiar with this programming language. Is there anyone who would like to pair program this feature with me today?



Who Speak in Daily Scrum?

- Only the "pigs", that is the people who are substantially committed to the project, should speak
 - "Pigs" the developers and the product owner if they have an update for the team
 - "Chicken" developers from other teams, business executives who want a status update, or the product owner if they have no major updates







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Scrum Master Role

- Keep the meeting in the 15 minute time box
 - Any off topic conversations be added to a list of discussion topics for after the meeting
- Records any impediments that are not directly solved in the meeting
 - See that these are fixed or assign someone to do so
- Signal the end of the meeting



You are at the daily scrum it is your turn to speak next. Which of the following should you include in your update?

- A. Yesterday, you completed the design for the database structure
- B. Yesterday, you watched a really cool movie after work
- c. Today, you are going to start designing the user interface
- D. The supply room is out of paper, so you can not draw up mockups for the user interface
- E. I have a suggested feature improvement for the product!



You are at the daily scrum meeting, one of the developers, Danny, said at yesterday's meeting that he was going to complete the source code for the login feature. At today's meeting he said that he worked on it yesterday and intends to complete it today. He says he has no impediments.

As the Scrum Master, what should you do?

- A. Get mad at him! He committed to completing the feature yesterday
- B. Politely ask Danny why he couldn't complete the feature, and if there is anything the team can do to help him
- C. Nothing, he said he would get it done today
- D. Assign someone else to complete the feature



You are the scrum master at the daily scrum meeting. This meeting has been going very smoothly. The last developer is giving their update, and the meeting has only been ten minutes. Her update sparks an off-topic conversation among the developers.

What should you do?

- A. Let the conversation continue. There is still five minutes left in the meeting and no more updates
- B. Let the conversation continue. This was something we needed to talk about anyways. It does't matter if we go over the 15 minute time box
- Cut the conversation short, end the meeting, and have everyone go back to work
- D. Cut the conversation short, add it to the list of discussion items, and suggest that anyone who wants to continue this discussion can talk about it after the meeting



Release Burndown Chart

What a Release Burndown Chart Shows

- How much work the development team has completed
- How much is left to complete
- ▶ The team's velocity in each sprint
- When you should expect to finish the product.



Types of Release Burndown Chart

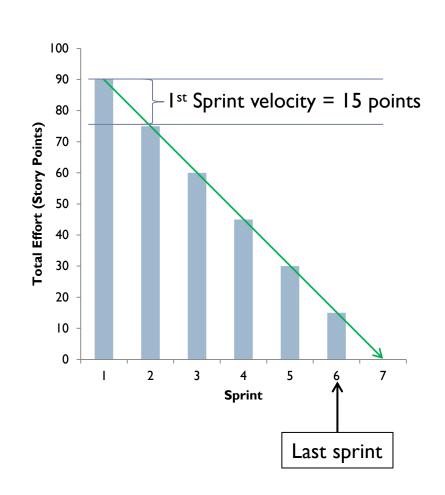
- How much total work is left to complete
 - Basic release burndown chart

- ▶ The effect of changing requirements
 - Total work done release burndown chart
 - Adjustable floor release burndown
- Can be line chart or bar chart



Basic Release Burndown Chart

- ▶ X-axis sprints
 - The last sprint is 6 in this example
- Y-axis total effort
 - e.g., story points
- Bar the total number of story points that are still remaining at the beginning of the sprint
- Bar difference Sprint velocity
- Green line prediction line
 - predict how many sprints this product will take to complete

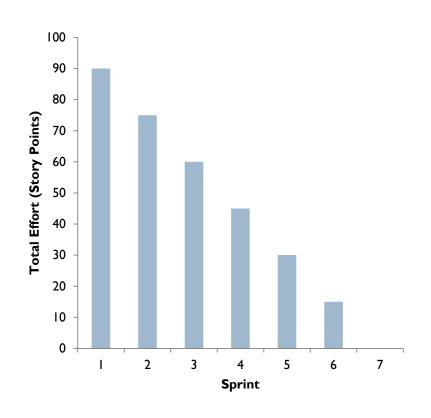




Your development team is about to start their sixth and final sprint. This is the release burndown chart for the project.

How many story points has your team completed, and how many do they have remaining?

- A. 90 story points completed, 15 story points remaining
- B. 90 story points completed, 0 story points remaining
- 75 story points completed, I 5 story points remaining
- 75 story points completed, 0 story points remaining





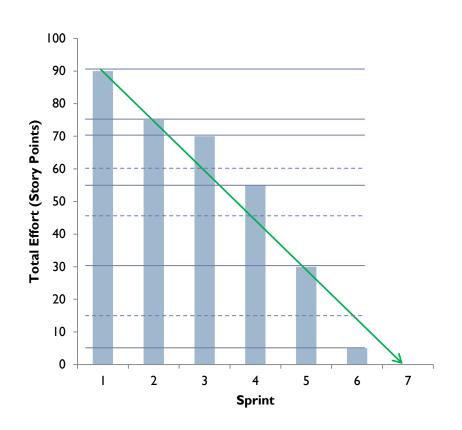
Track Development Progress

Behind the schedule

bar above the prediction line

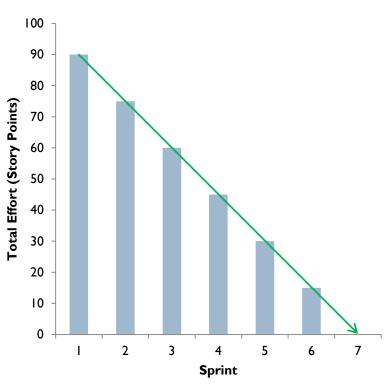
Ahead of the schedule

bar below the prediction line

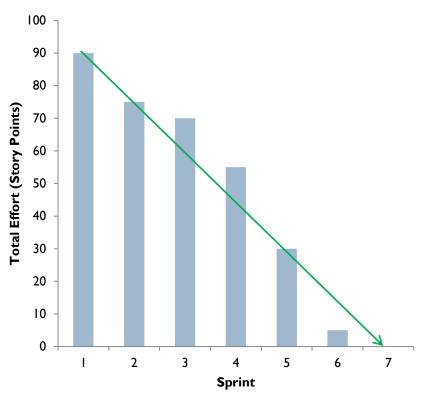




Ideal vs. Reality



Ideal, stable sprint velocity = 15 story points



Sprint velocity varies over time

The Definition of "Done"

- Done only features that are programmed, tested, documented and ready for market
- Only features that have met the team's definition of done can be marked as complete for the release burndown, and have their story points deducted from the release burndown



You are working on a team that is developing a mobile application, you have just completed your third sprint. Your team's definition of done includes only features that are programmed, documented and tested and ready for market.

Which of the following features should be counted as completed and have its strong points deducted within the release burndown for the sprint?

- A. A feature that was developed and documented but failed testing in the last sprint has now received a minor fix and has passed tests in the current sprint
- B. A feature that you did not have time to test but you are sure that it works
- An interface feature that is programmed, documented, and tested but has not been connected to the database yet
- D. A feature that works perfectly, has passed all its tests in this spring, and is properly documented



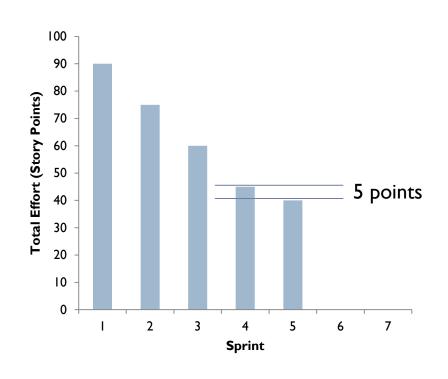
Changing Requirements

Requirements change constantly

- New/removed user stories
- The estimate of story points for a user story changes

For example,

- In Sprint 4, the team completed 15 points
- Before Sprint 5, two use stories are adjusted 5 more points each
- Looks like the team only completed 5 points in Sprint 4

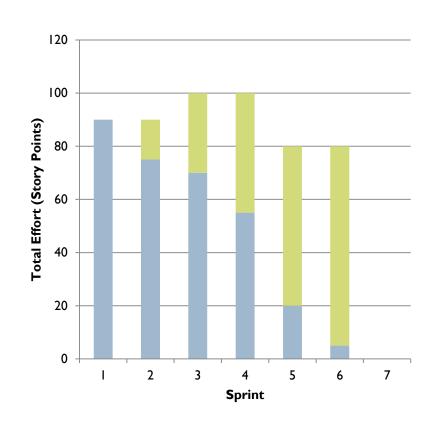




Total Work Done Release Burndown

Stacked bar chart

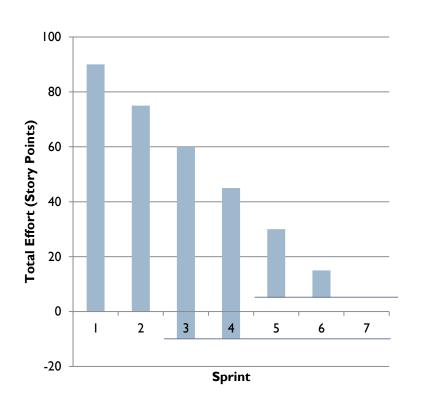
- Total work remaining on the bottom (blue)
- Total work completed on the top (green)
- Shows your team's velocity, as well as the change in story points
 - Velocity difference in total work completed
 - Change in story points height of stacked bar





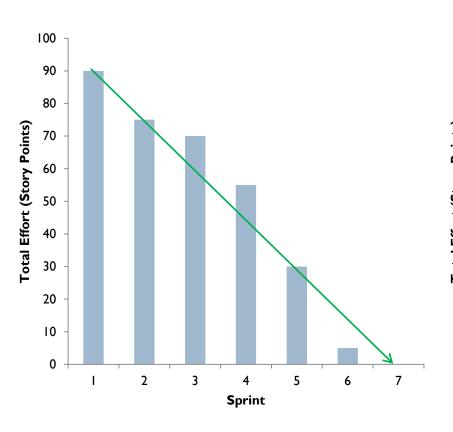
Adjustable Floor Release Burndown

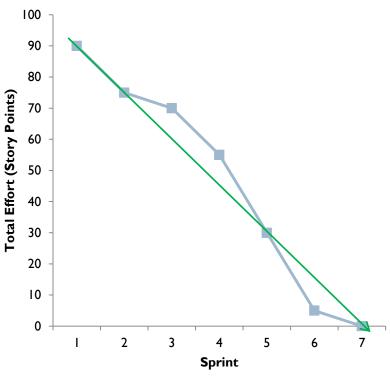
- Demonstrate the change in story points by adjusting xaxis
 - Below original x-axis added story points
 - Higher than previous x-axisremoved story points





Line Chart Release Burndown

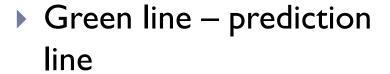


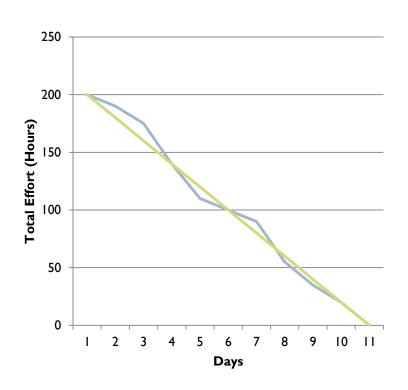


Iteration Burndown Chart

Iteration Burndown Line Chart

- X-axis days of a sprint
- Y-axis total effort
 - e.g., hours
- Blue line the total of hours that are still remaining at the beginning of a day



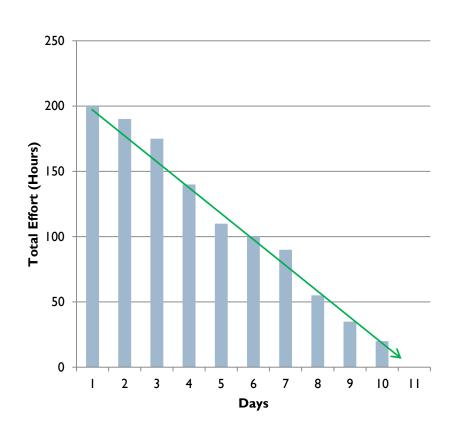


Only working days should appear on the iteration burndown. They should not include weekends or holidays, unless work is scheduled to be done on those days.



Iteration Burndown Bar Chart

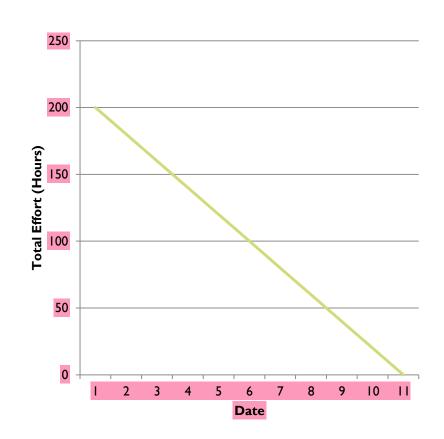
- X-axis days of a sprint
- Y-axis − total effort
 - e.g., hours
- Bar the total of hours that are still remaining at the beginning of a day
- Green line prediction line





Based on this iteration burndown chart how many person hours of work is the team aiming to complete each day of the sprint?

- A. 200
- B. 20
- c. 18
- D. You need more information





You're creating an iteration burn down chart for a development team. The team does two week sprints and has a two day weekend in the middle of the sprint. No developers work on the weekend. The team is also attending a conference for one day during the sprint, and will not be able to work on the product that day.

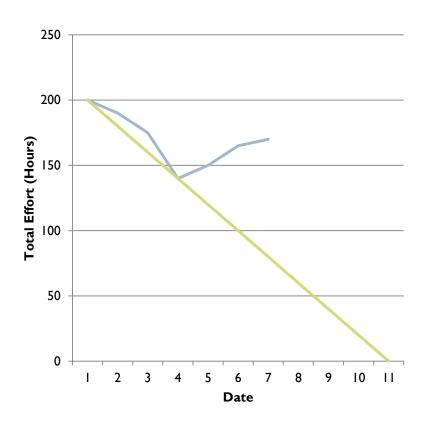
How many days should your iteration plan include?

- A. 14 days
- B. 10 days
- c. 9 days



Burning Up

- When you are adding more tasks than you are completing, or removing
- Maybe there were tasks that were overlooked, or forgotten

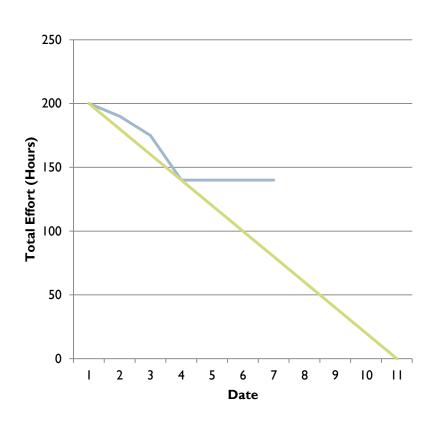




Burn Across

This is the iteration burndown for your team. What could the horizontal burndown indicate?

- A. your team is adding as many task hours as they are completing
- B. your team is starting tasks but not completing them
- c. your team is not doing any work (e.g., on vacation)
- D. your team is completing tasks at a constant pace





Solutions to Burn-Up or Burn-Across

Burn-up

Removing or prioritizing some tasks

Burn-across

Prioritizing completing active tasks over starting new tasks

Make sure that all your task are not in half done states at the end of the sprint

