

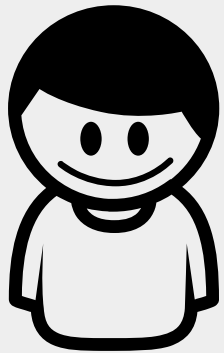
CPSC 310 – Software Engineering

Lecture 4

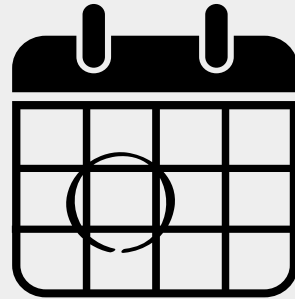
Scrum



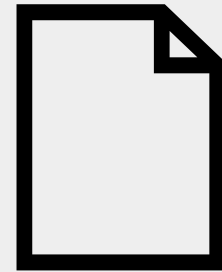
Scrum framework



Roles



Ceremonies



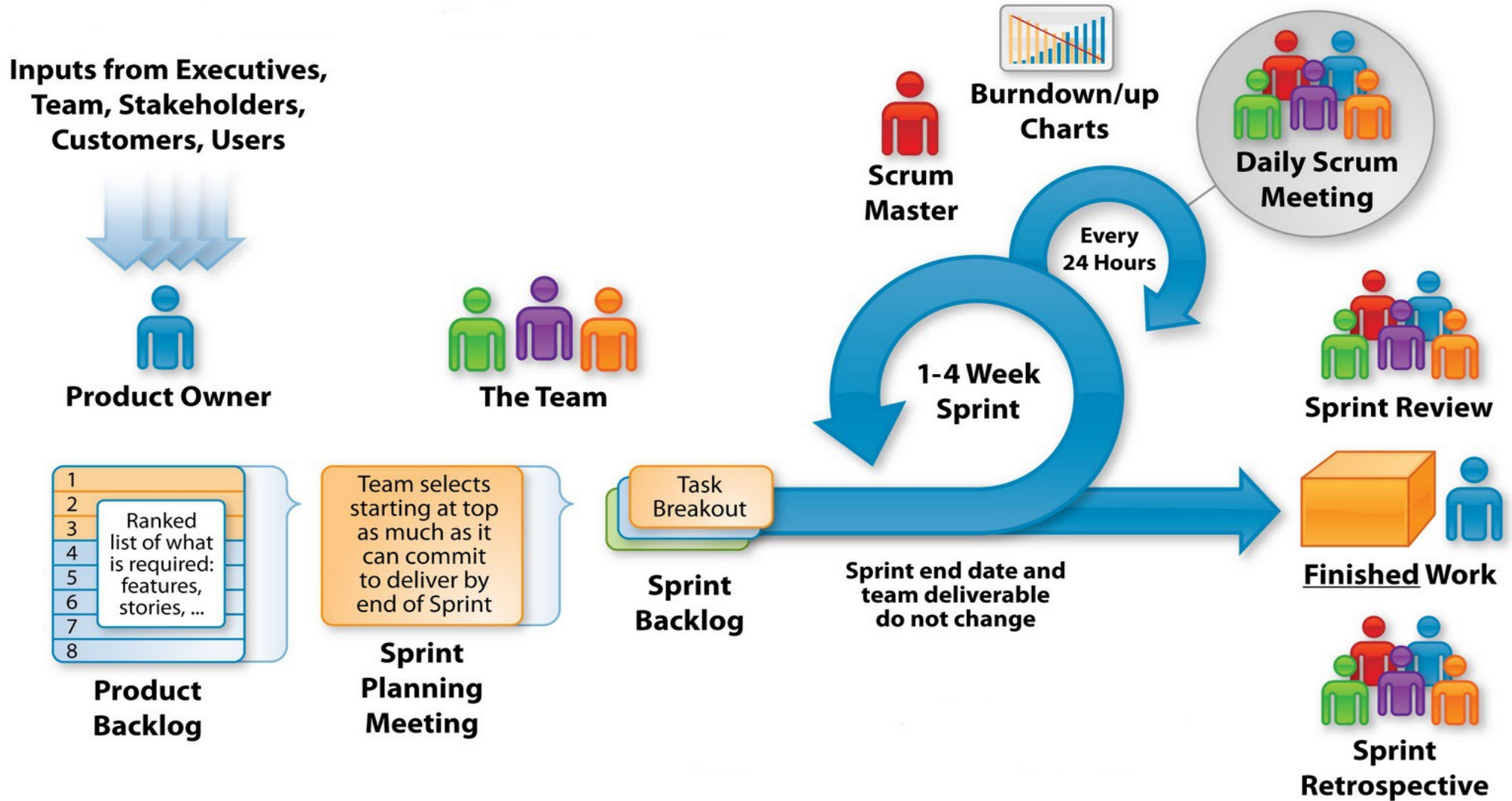
Artifacts

Product Owner
Scrum Master
Team

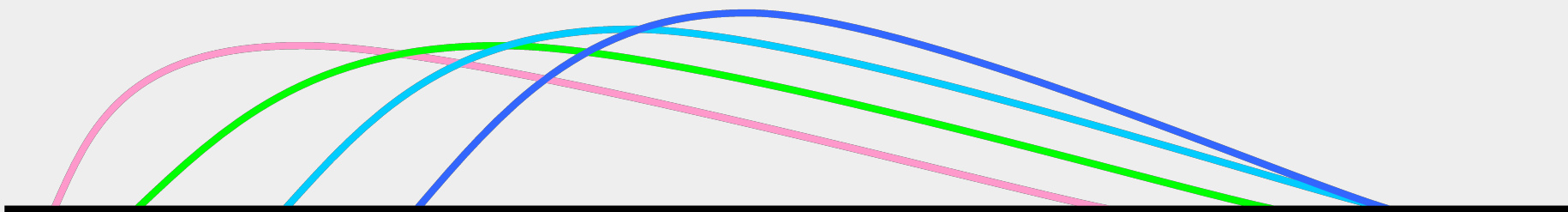
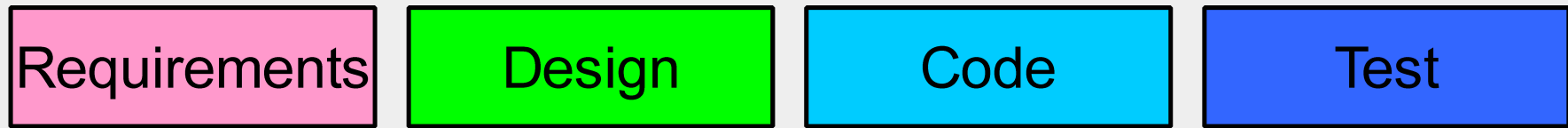
Sprint Planning
Daily Scrum Meet
Sprint Review
Sprint Retrospective

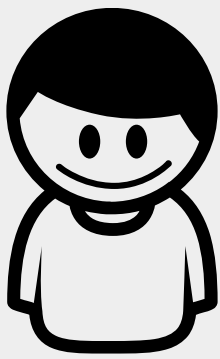
Product Backlog
Sprint Backlog
Burndown Charts

Scrum Process



Sequential vs. Overlapping Dev



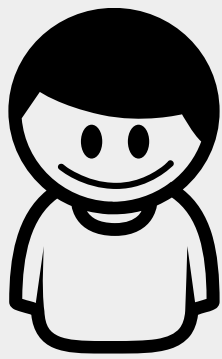


Product Owner

Define the features of the product

Prioritize features according to market value

Adjust features and priority every iteration, as needed



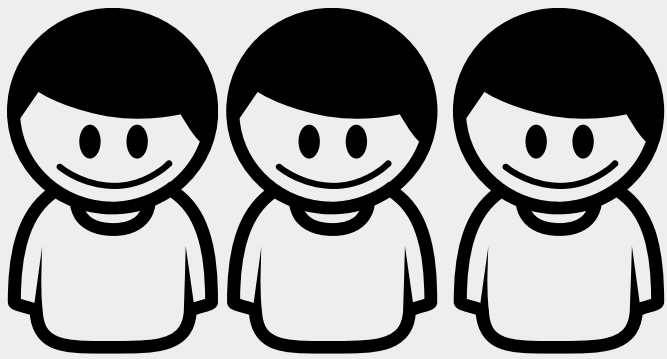
Scrum Master

Facilitates Scrum process

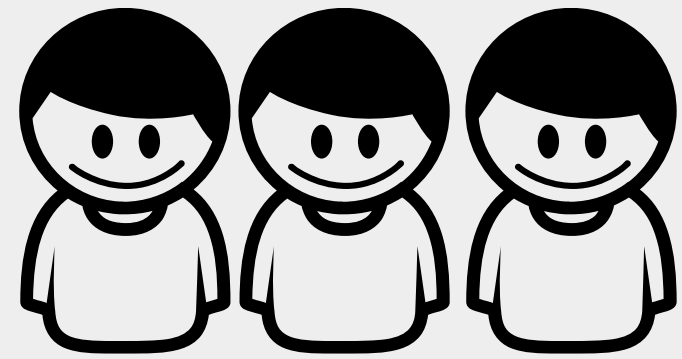
Helps resolve impediments

Shields team from external interferences

Not a "real manager", he serves the team



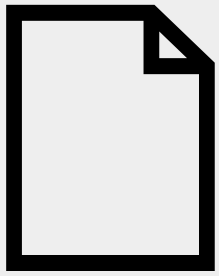
The Team



Typically 5-9 people

Cross-functional

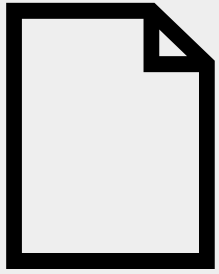
Teams are self-organizing



Product Backlog

The REQUIREMENTS

Backlog item	Estimate
Allow a guest to make a reservation	3
As a guest, I want to cancel a reservation.	5
As a guest, I want to change the dates of a reservation.	3
As a hotel employee, I can run RevPAR reports (revenue-per-available-room)	8
Improve exception handling	8
...	30
...	50

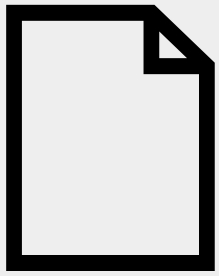


Sprint Backlog

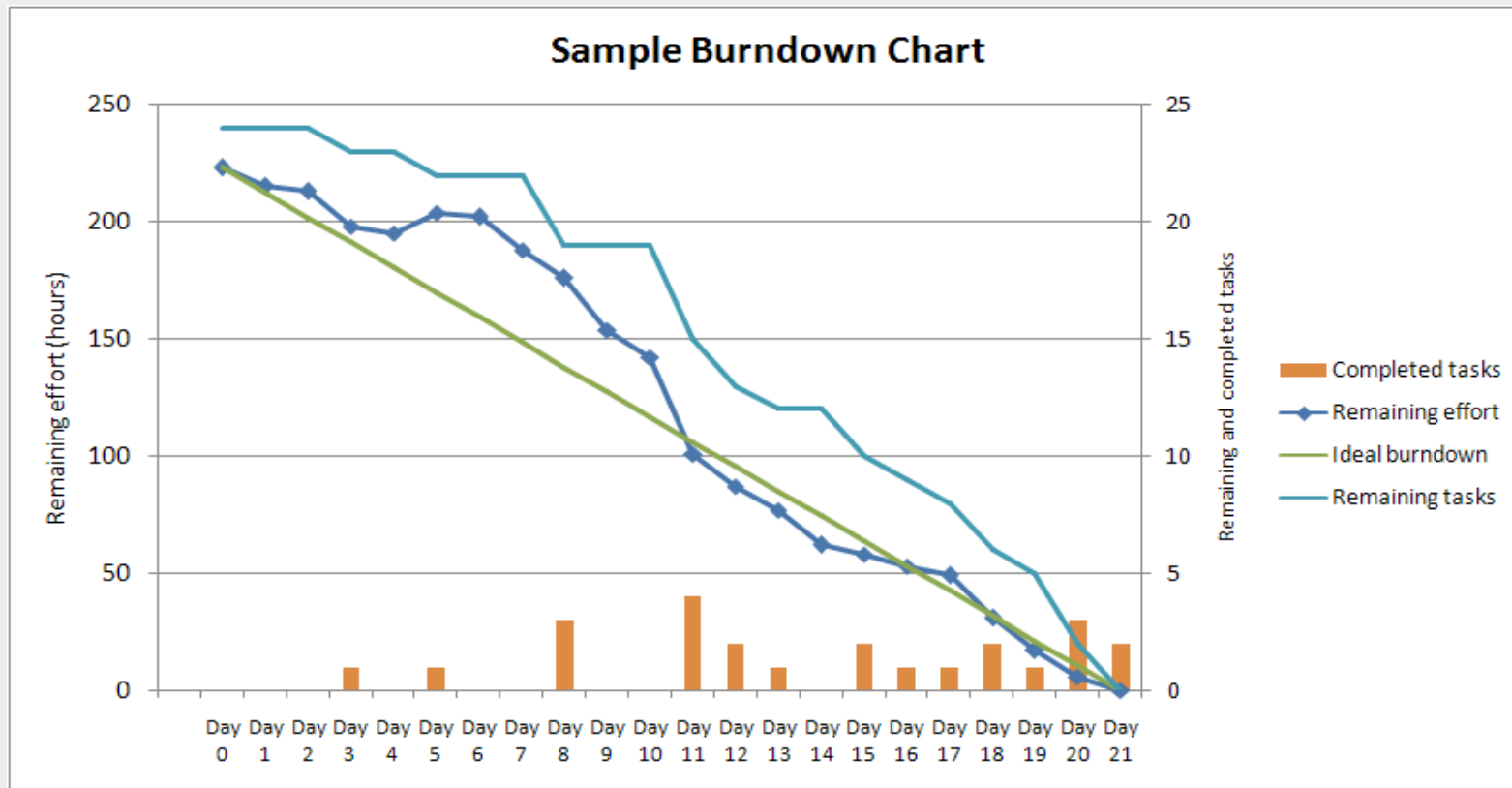
PBI for a sprint broken down in tasks

Example for a Weather App:

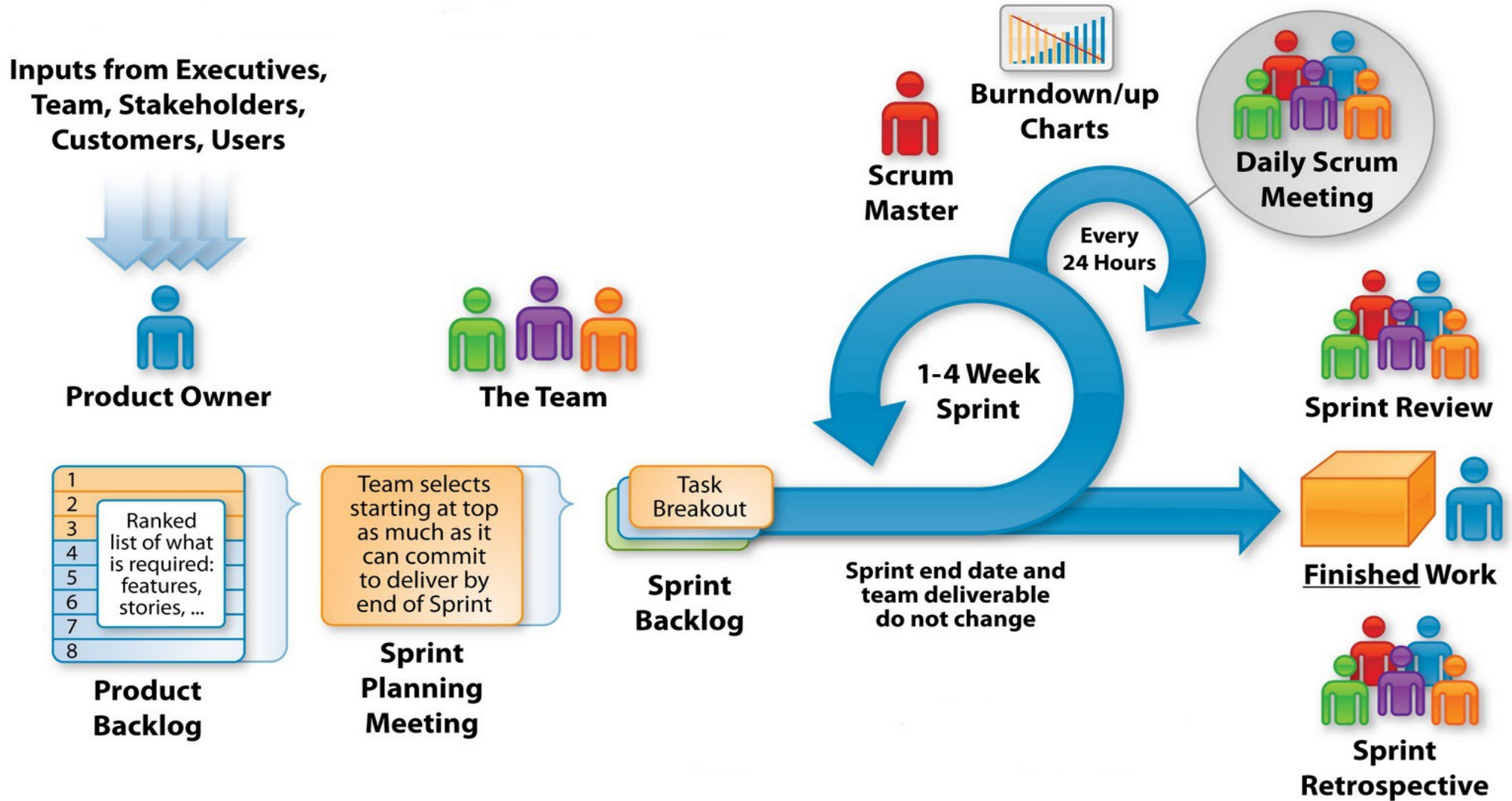
- PBI: As a subscriber, I want to see a 10-day forecast of conditions so that I can plan at least a week ahead
- Tasks:
 - Parse the weather data in day packets
 - Push several days data to the client
- PBI: As a subscriber, I want to see precipitation accumulations and forecast so that I can plan my activities.
- Tasks:
 - Parse snow/rain data from the provider's data
 - Push the snow/rain data to the client
 - Redesign client screen for new data
 - Refactor the server code

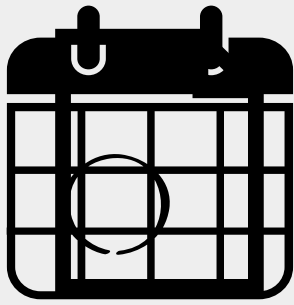


Burndown Charts

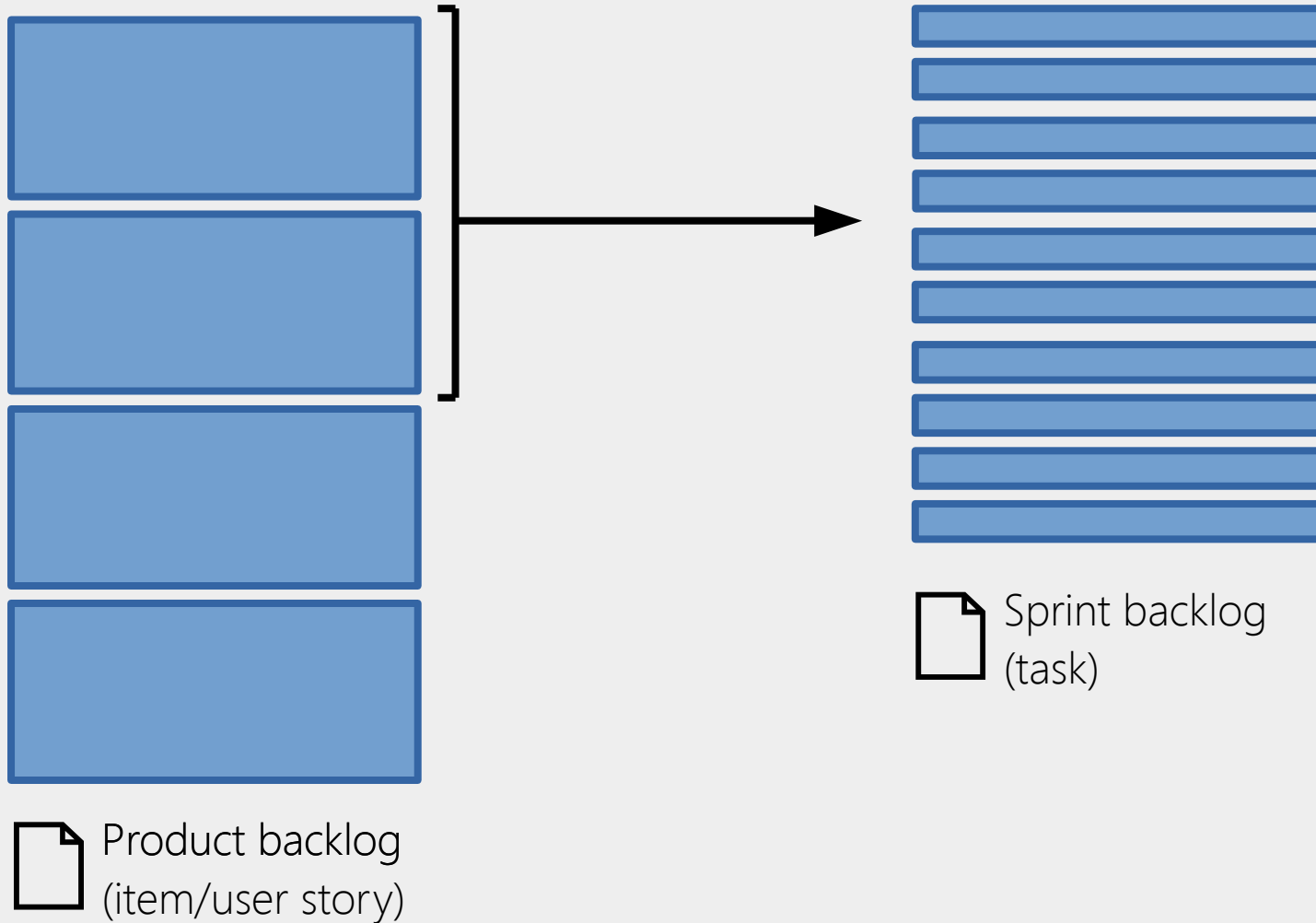


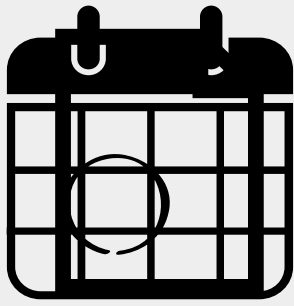
Scrum Process





Sprint Planning

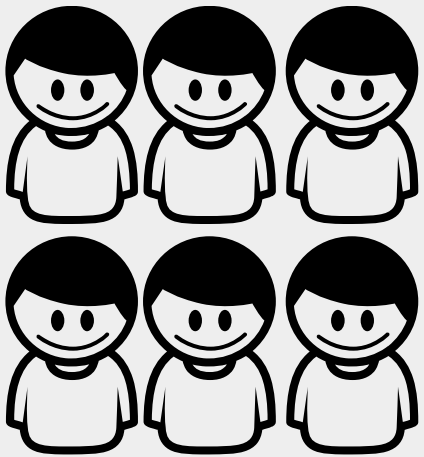




Daily Scrum Meeting



Daily / less than 15-minutes / Stand-up
Not for problem solving



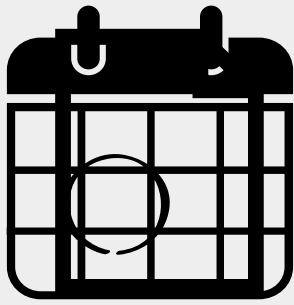
What did you do yesterday ?

What will you do today?

What obstacles are in your way?



Team members, ScrumMaster, Product Owner



Sprint Review



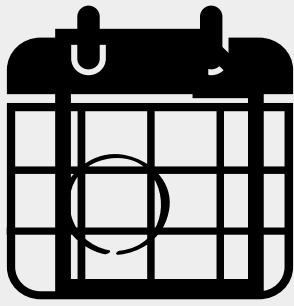
Informal / 2-hour preparation time rule / No slides

Team presents what it accomplished during the sprint

Demo of the product



Product Owner, Team members, ScrumMaster, customers, stakeholders, experts, executives, anyone interested



Sprint Retrospective

PROCESS



Stop doing



Continue doing



Start doing