

User Stories | Convention

Rachel Davies is credited with inventing:

As a [type of user]
I want [some particular feature]
so that [some benefit is received]

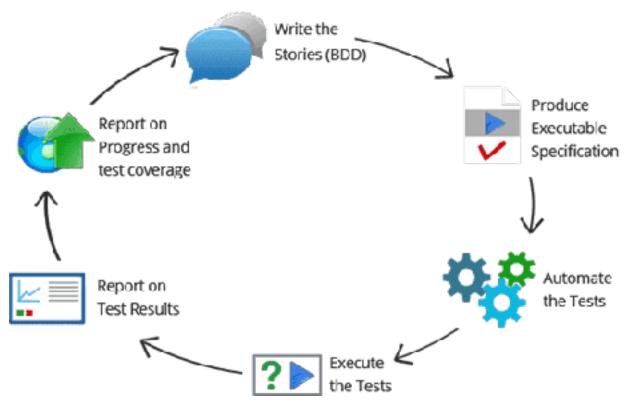
Example:

As a bank customer

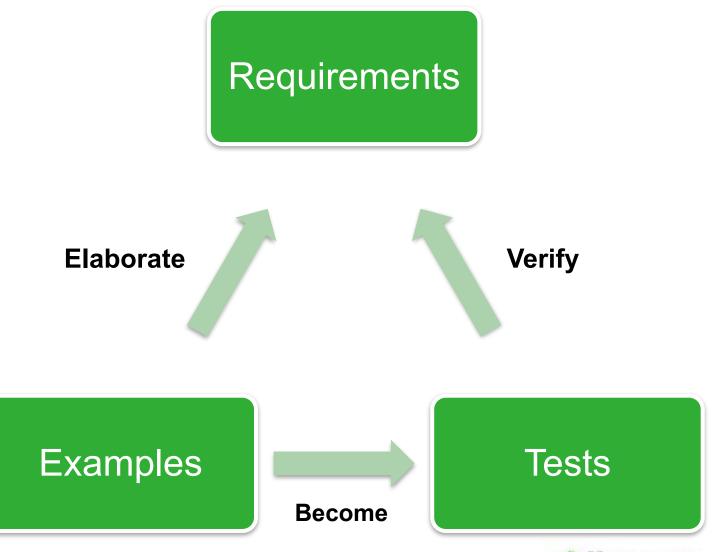
I want to view my current account balance so that I know my recent deposit went through.

 Sometimes features that describe technology updates or UI changes don't really work with the model.

Behavior Driven Development



 BDD promotes requirements by example, collaboration, lower cost in resolving defects, and automation in the form of business value. Gherkin is a business readable, Domain Specific Language created specifically for behavior descriptions (BDD/ATDD).



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User Story

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- I want [some particular feature]
- so that
 [some
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 received]

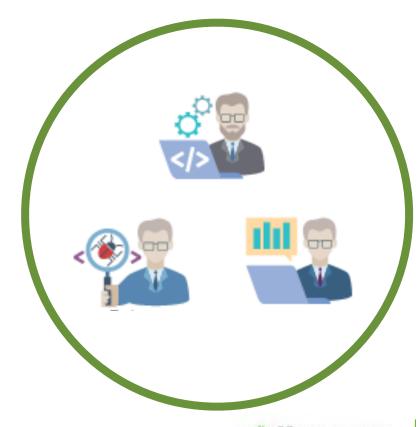
Gherkin Scenario

- Given some initial context
- When an event occurs
- Then ensure some outcome(s)

Encourages Collaboration

• BDD requires people to work together to create the requirements / tests. All roles balance each other.







Form teams of 2-4

As a member of information security

I want to force users to create strong passwords

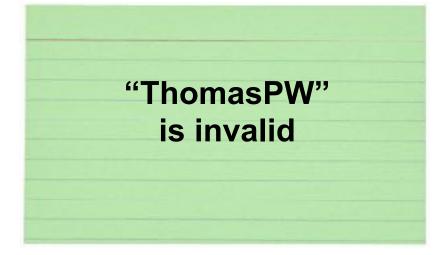
In order to prevent passwords from being guessed

- In your team, invent THKEE rules for what makes a strong password. Write them on BLUE cards.
- Keep your rules secret from other teams
- Sample rules: "It must have # in the password" or "It must not have your name in it"

- Create THREE examples that illustrate your rules
- Write each example on a GREEN card.

Examples:

"Secure#Password" is valid



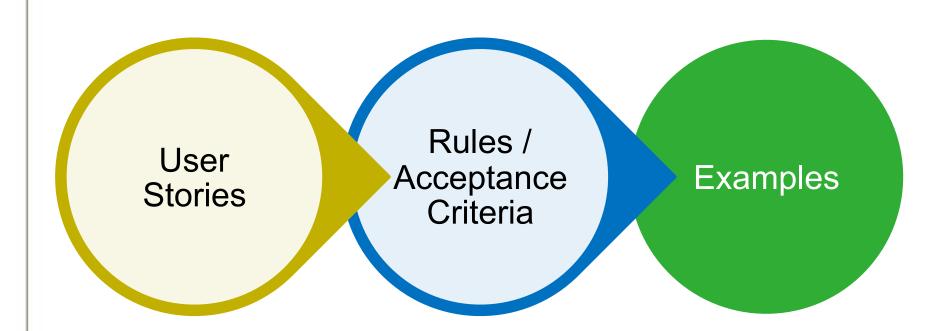
- Pass your EXAMPLES to another team.
- Attempt to guess the other team's rules.
- The guessing team may create new examples and ask the RULES team to confirm the examples meet the requirements, without showing the RULES.
- How many examples did it take to guess the rules correctly?

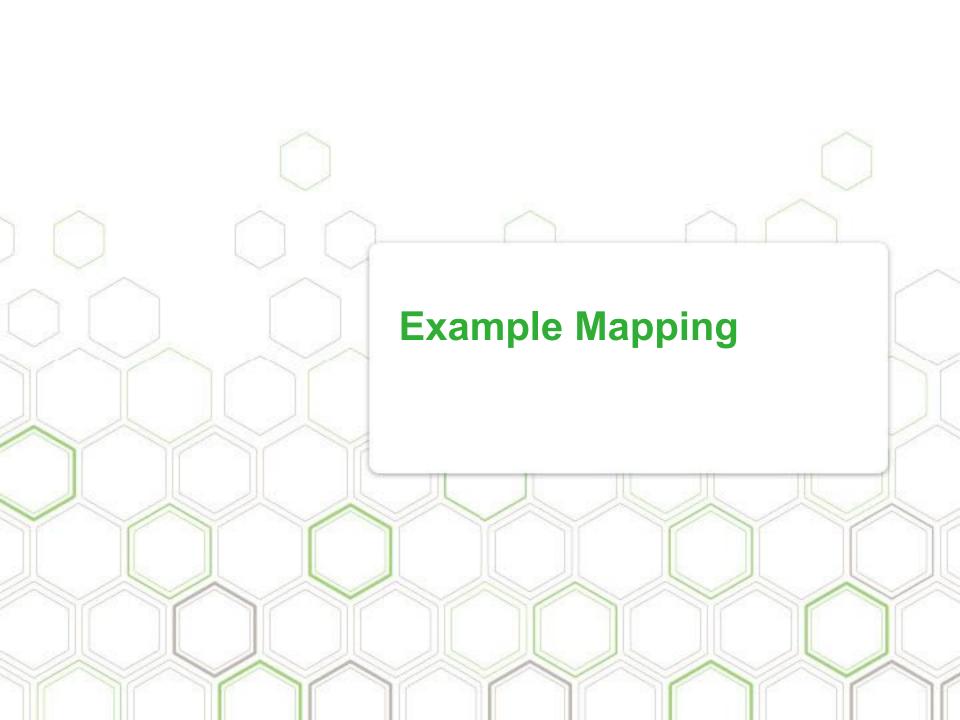


Why do we need both **RULES** and **EXAMPLES**?



Use the **EXAMPLES** to illustrate the **RULES** of **USER STORIES**.





From a User Story to Specifications

- Before development starts, have a conversation to Clarify and Confirm
- The Three C's
 - Card
 - Conversation
 - Confirmation



Card

- User stories are written on cards.
- The card does not contain all the information in the requirement.
- The card has just enough content to identify the requirement.
- The card is a token that represents the requirement.

As a customer, I want to be able to search for flights between two cities to see which ones have the best price and route.

Estimate: 1.0 points

Priority: 2 - High

Example Story Card

Conversation

- The conversation is an **exchange of ideas** and opinions.
- This conversation takes place over time: during estimation and planning before implementation.
- The conversation is verbal and often supported by documentation.
 The best supplements are examples specifically executable examples.









Confirmation

- An acceptance test.
- For complex stories, confirmation using examples (and automation) is preferred.
- The confirmation provided by the **executable specification** steers the approach of card and conversation.



Other Common Refinement Activities

- Three Amigos
- Specification Workshop
- Discovery Workshop



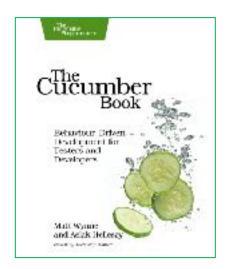


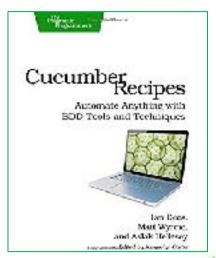


 Whichever method is used, these activities must be done regularly!

Example Mapping by Matt Wynne of Cucumber Ltd.

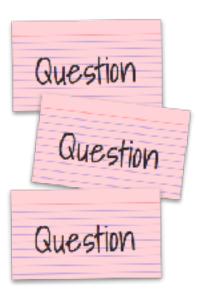
- Specification by Example help us refine requirements.
- Rules that summarize examples or express constraints about the story.
- Questions about scenarios concerning the outcomes or dependencies of the story that no one in the workshop can answer.
- New User Stories either sliced or deferred as out of scope.



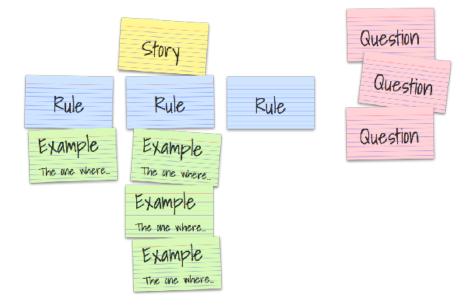


The Example Map



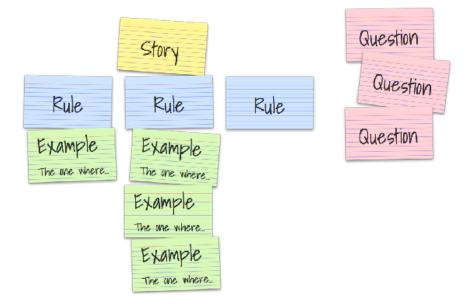


Process



- The single USER STORY is written on YELLOW card and placed at the top of the map.
- The acceptance criteria as a RULE is written on a BLUE card placed below the User Story.
- Create one or more EXAMPLES written on GREEN cards placed below each rule.
- Any QUESTION that no one in the workshop can answer is written on a RED card.
- Continue the session until a **Time-box** is met or everyone believes the story is elaborated sufficiently.

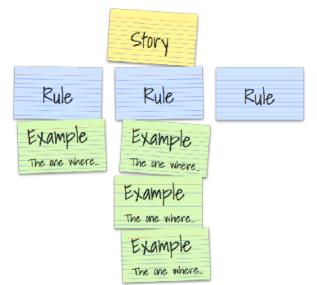
Feedback



- The Example Map represents the teams understanding of the story:
 - A map with many RED cards mean development work is not ready to begin. Seek out answers outside the workshop.
 - A map with many BLUE cards means the User Story is perhaps too large. Try to slice the User Story into two or more.
 - A single rule with too many GREEN cards might be too dense. Try to slice the Rule into two or more.

Time-Box



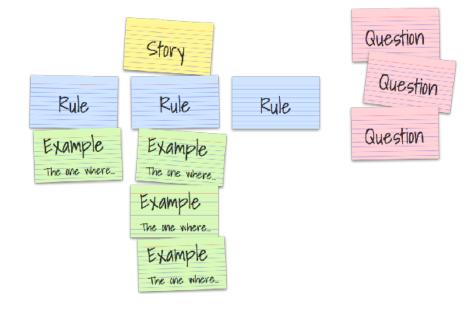




- An Example Mapping session should take 30 minutes max.
- If the time-box is not met, perhaps:
 - The attendees must practice more
 - The USER STORY has too many RULES
 - The USER STORY has too many QUESTIONS
- All Example Map attendees must agree the story is ready for development.

Benefits





- Creates a shared understanding among all roles on the team.
- Example Mapping promotes requirements written as user behavior.
- Each rule determines the application's core behavior.
- Large or unclear stories are stopped from entering active development.

A Word of Caution

 One person writing Gherkin scenarios based on the examples during the session while others sit idly by is not advised.



• If the team uses Gherkin standards, then individuals can quickly write the examples and split the work amongst the team.

An Example Example Mapping

Schedule a Workshop

What if one or more Trainers are unavailable?

Room must be available

Workshop within normal working hours

At least 75% of all participants available

Is catering required?

A workshop with 4 people or fewer can be held in the atrium Core business hours between 9am and 3pm EST

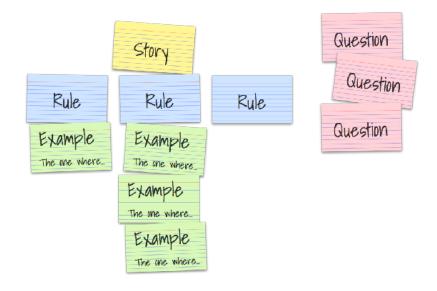
Workshop scheduled on day when colleagues onsite Does the meeting room require a projector?

A workshop with 5 people or more must be reserved in meeting room

Scheduled during timeframe when colleagues don't have meeting conflicts

Example Mapping Group Activity

- Group Activity (time box: 30 minutes)
 - In your group, conduct an Example Mapping session for one of the User Stories available.
 - We'll review each groups work together.
 - Divide the EXAMPLES from your session amongst your team members. For each Example, write the Gherkin specification.



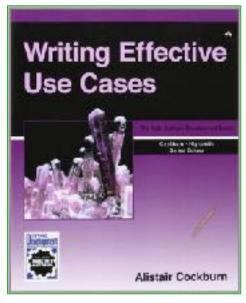
Questions?

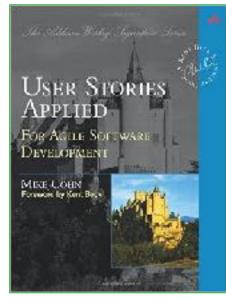


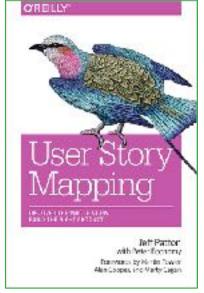


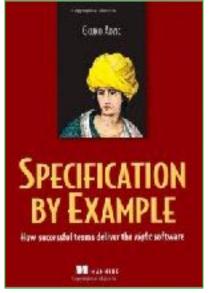
ResourcesThe Requirements

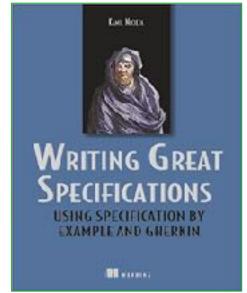


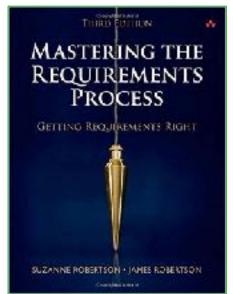




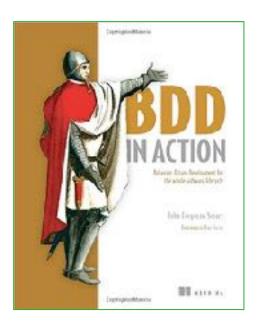


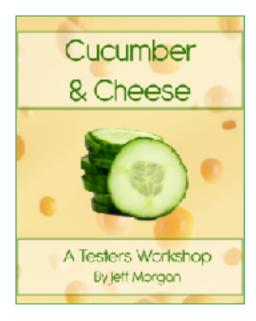


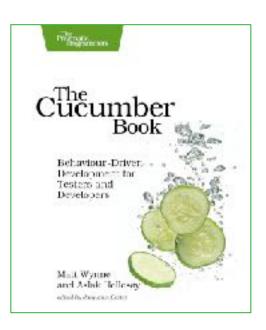


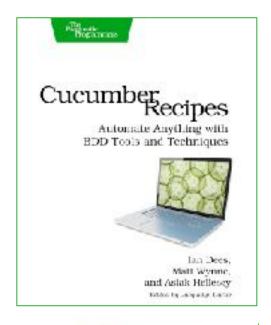


Resources The Automation

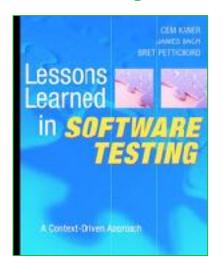


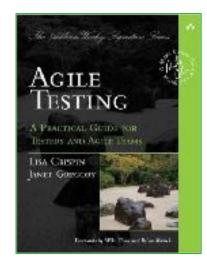


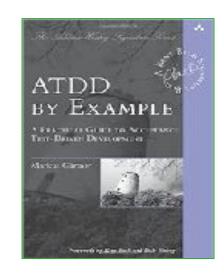


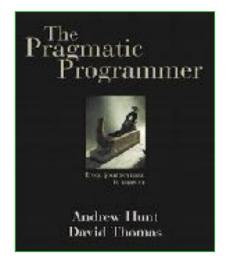


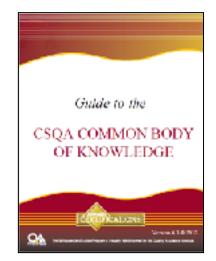
Resources The Quality

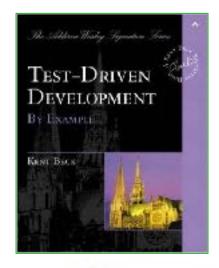






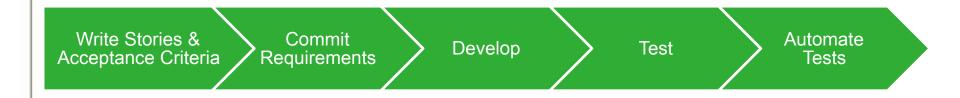


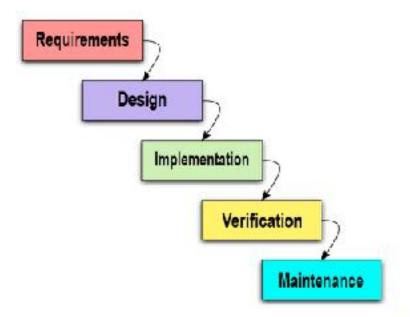




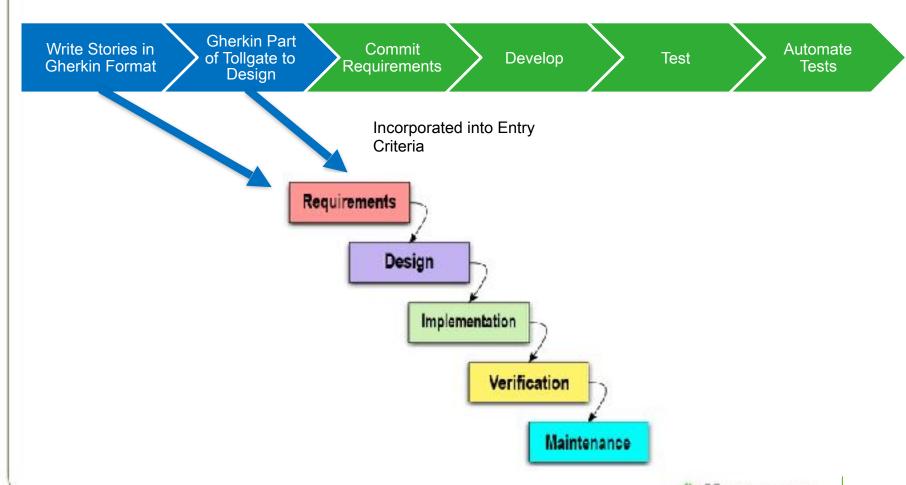


SDLC Integration | Waterfall

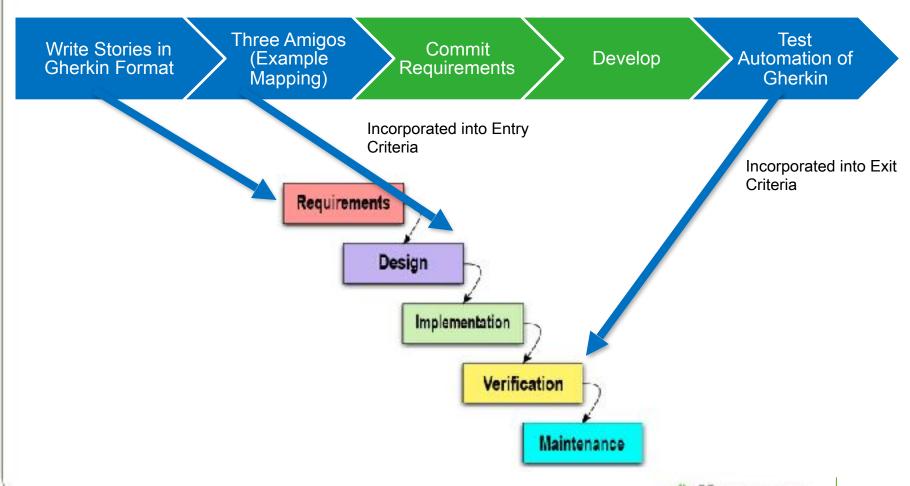




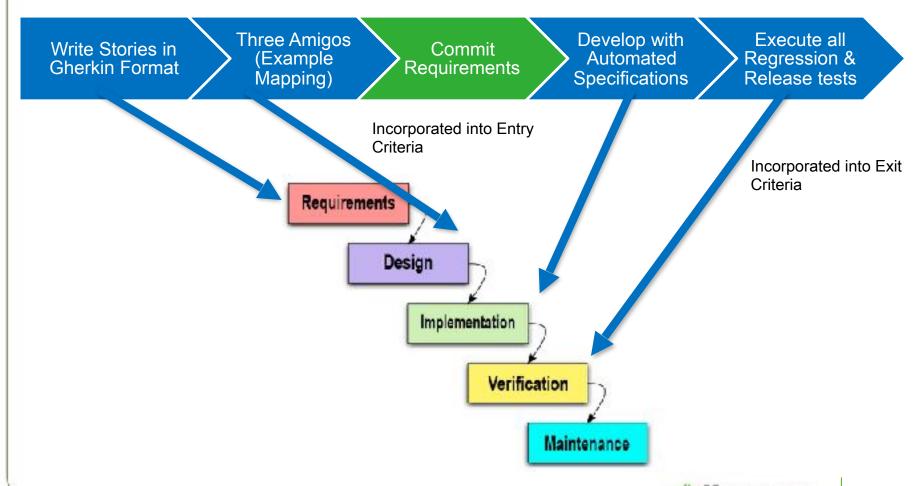
SDLC Integration | Analyst Writes Gherkin



SDLC Integration | Three Amigos Introduced



SDLC Integration | Full BDD





SDLC Integration | Standard "Sprint"

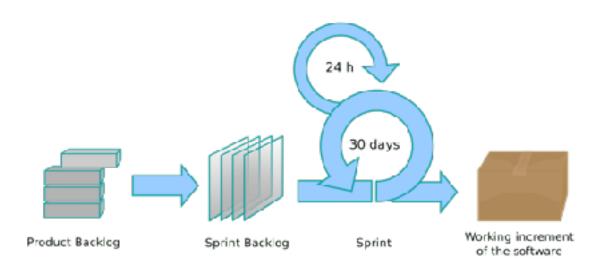
Write Stories & Acceptance
Criteria

Commit Stories to Sprint

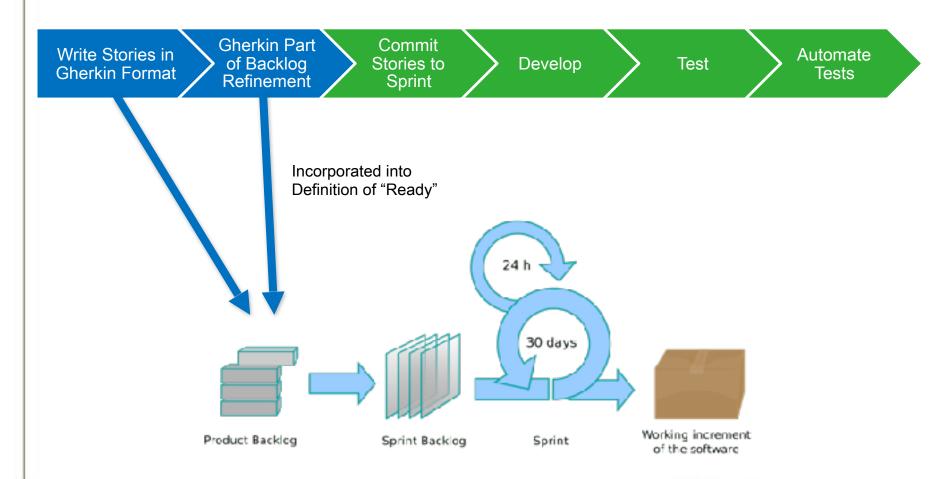
Develop

Test

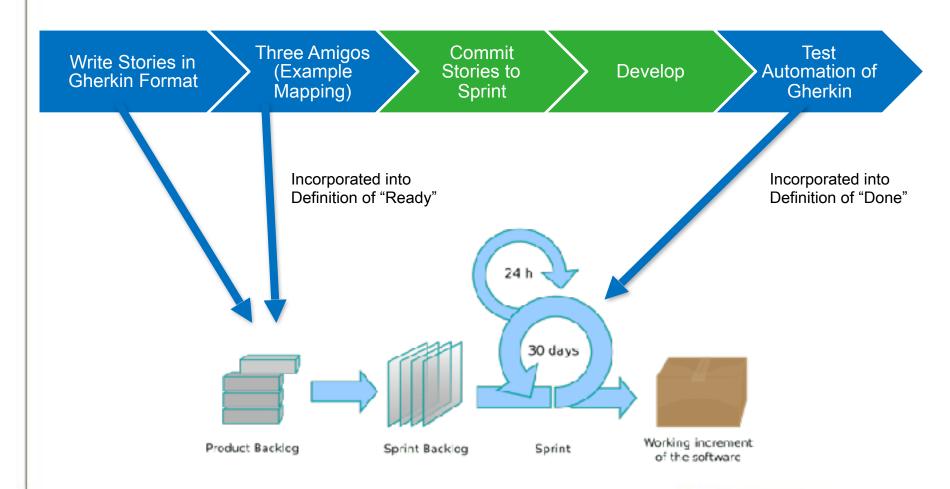
Automate Tests



SDLC Integration | Analyst Writes Gherkin



SDLC Integration | Three Amigos Introduced



SDLC Integration | Full BDD

