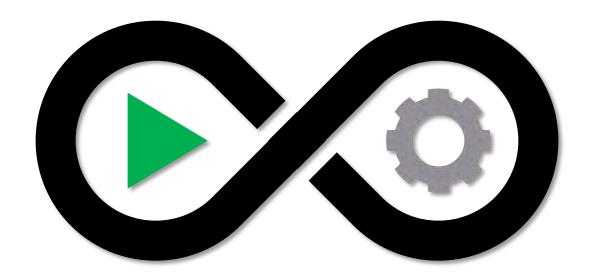
Example Mapping

The New Three Amigos



About Me



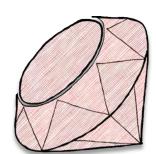
@COGSfun

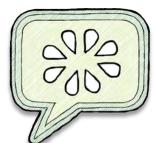


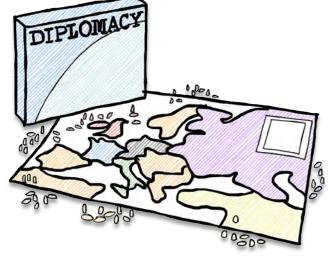
https://red-green-refactor.com/





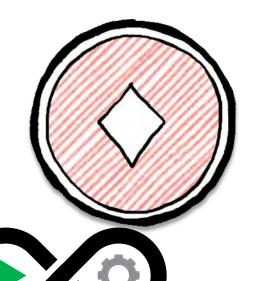






Ground Rules for Today

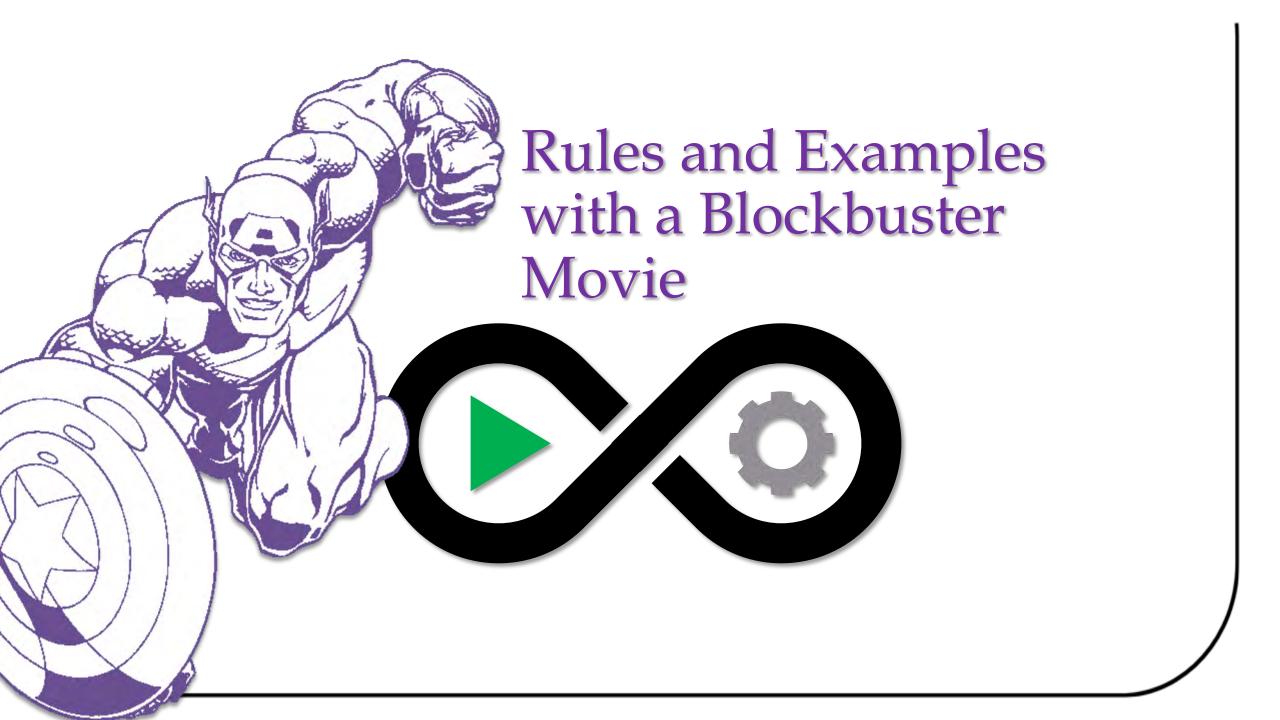
- There will group activities
- Participation in our activities is voluntary
- Questions are welcome at any time











• Form teams with the people sitting closest to you.

As a big-time Hollywood movie executive

I want to create the next blockbuster movie

In order to make a lot of money

- Write three **RULES** for a blockbuster
- Don't share your rules with other attendees
- Sample rule: "Comic Book character is featured"





• Create three **EXAMPLES** that illustrate your rules





- Share your **EXAMPLES** with another team.
- Attempt to guess the other team's rules.
- Your team may create new **EXAMPLES** and ask the other team to confirm the examples meet the **RULES**.
- How many examples did it take to guess the rules correctly?





The movie is released on the July 4th weekend

Robert Downey Jr is the lead actor

Deadpool kills Ryan
Reynolds before he
can star in the
Green Lantern

Must release on a Holiday

Must feature an established Hollywood Star

The movie breaks the fourth wall

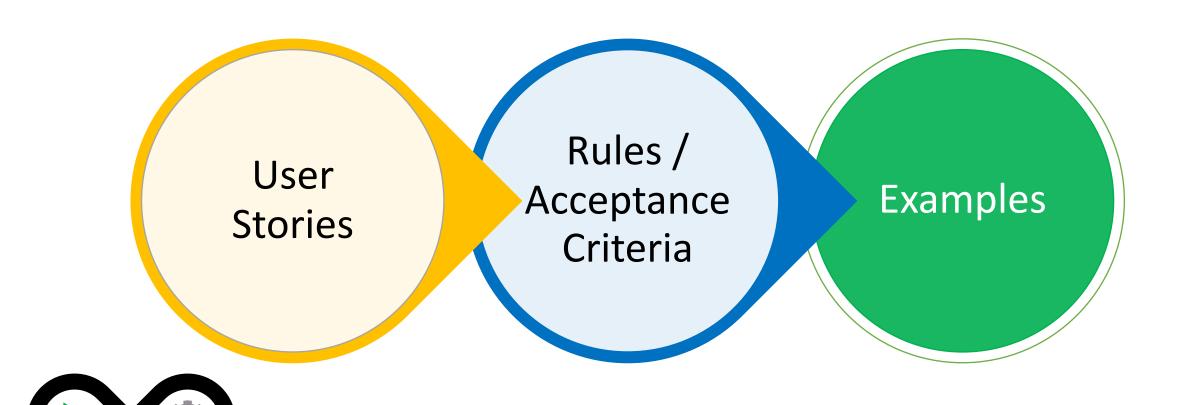


Why do we need both **RULES** and **EXAMPLES**?





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

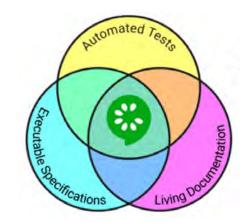


Examples

Examples

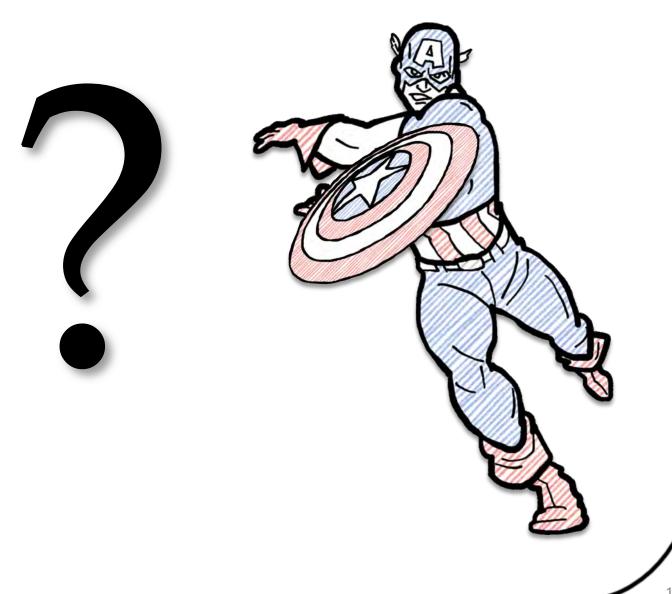
- Examples can take various forms: input-output data pairs, sketches of the user interface, bulleted lists of different steps of a user workflow or even an Excel workbook illustrating a calculation or a report.
- All examples describe a behavior as a combination of **context**, **action**, and **outcome**.
- Some examples are **formulated** into scenarios when a user story is ready. BDD tools turn these scenarios into executable tests *before* the related behavior has been implemented in the application itself.



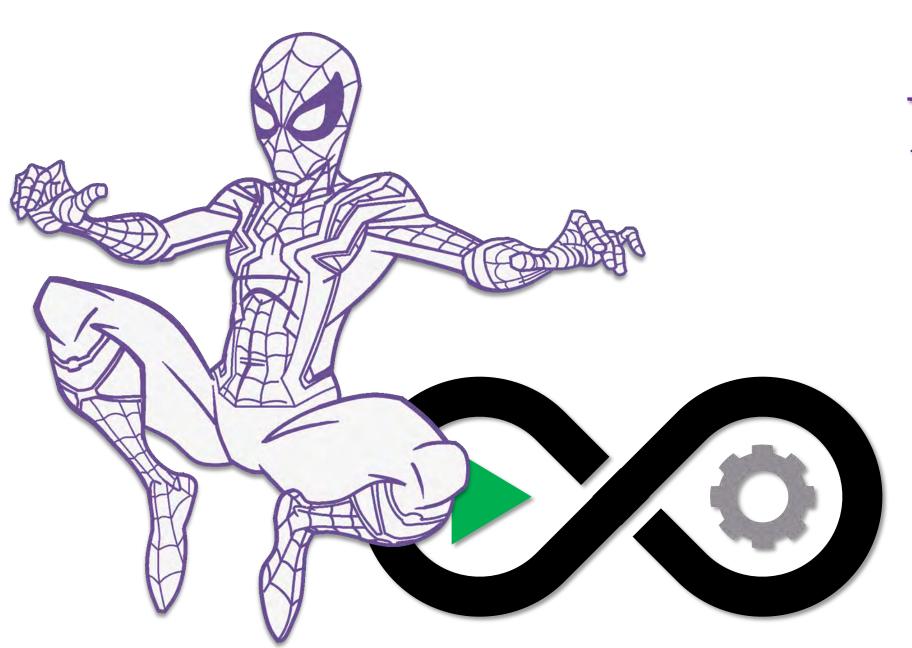


cucumber

Questions







BDD

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

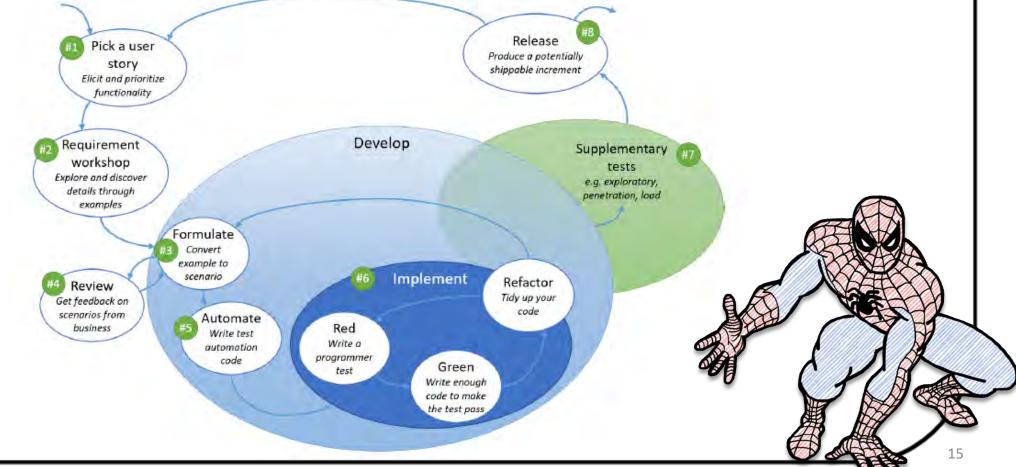
I want to view my current account balance
so that I know my recent deposit went through.

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

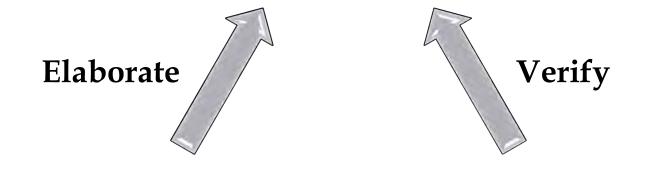


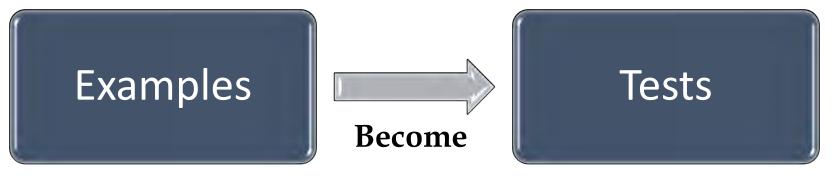
Behavior Driven Development

BDD promotes requirements by example, collaboration, lower cost in resolving defects, and automation in the form of business value.











Encourages Collaboration

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







Living Documentation

Living Documentation is a form of documentation that represents the current state of the application, which is updated in real-time.





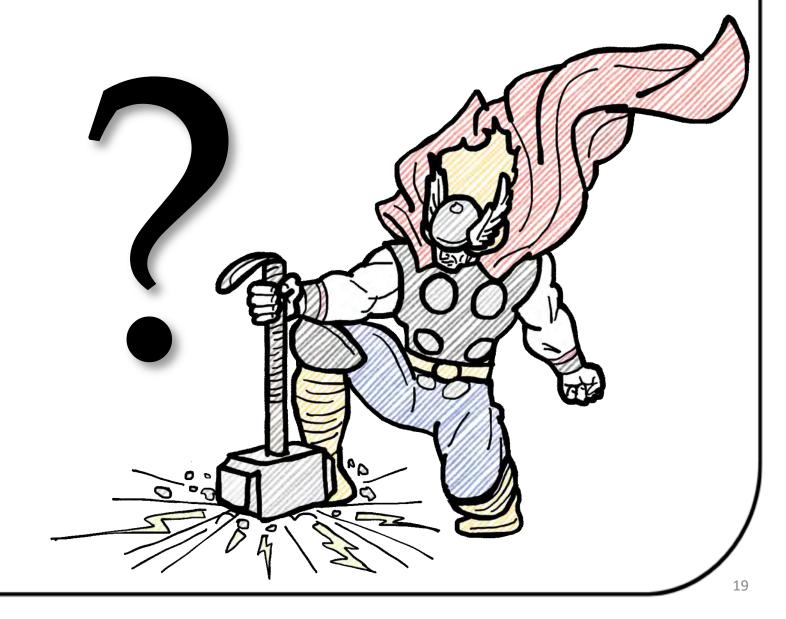


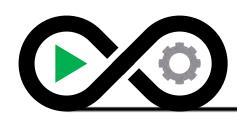
- Scenarios make up the living documentation, which should be understandable by everyone.
- Scenarios should be written in domain-specific terms to describe the behavior of the application.

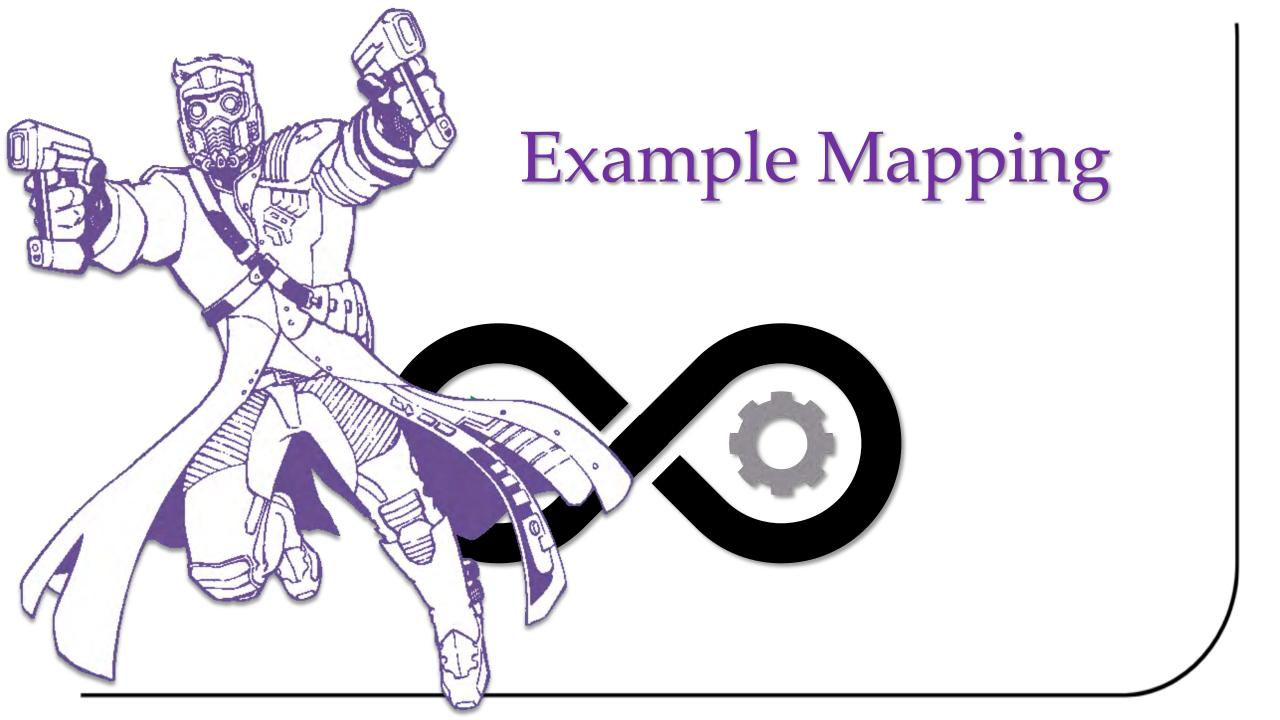




Questions







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.







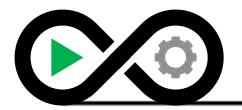




Confirmation

- 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.





Structured Conversation

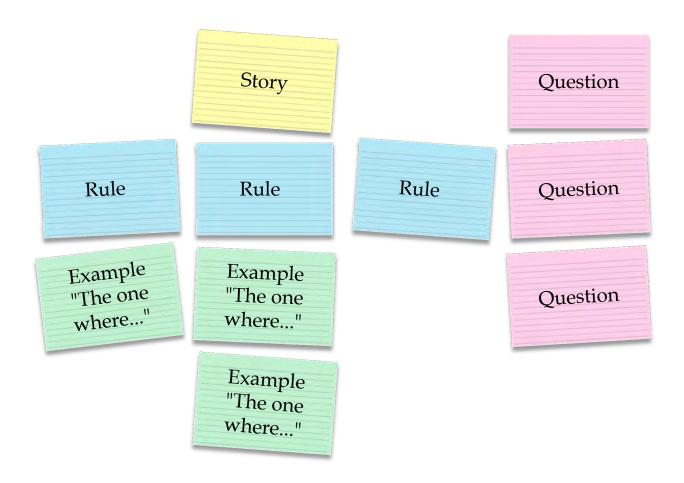


Structured Conversation is a facilitated exchange of ideas that conform to a predefined form.

- A structured conversation is:
 - Collaborative all attendees participate actively
 - Diverse Perspectives all primary areas of a team are represented
 - Short regular workshops in a timebox so the feedback loop is quick
 - **Progressive Focus** capture the progress of the workshop in real-time
 - Consensus agreed concrete examples measure the workshop's success

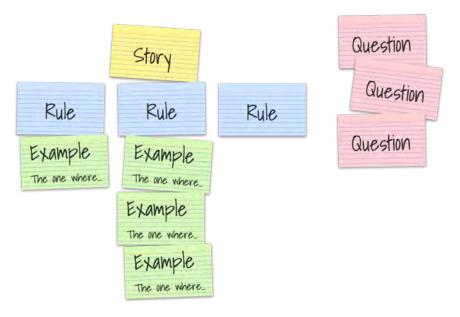


The Example Map by Matt Wynne





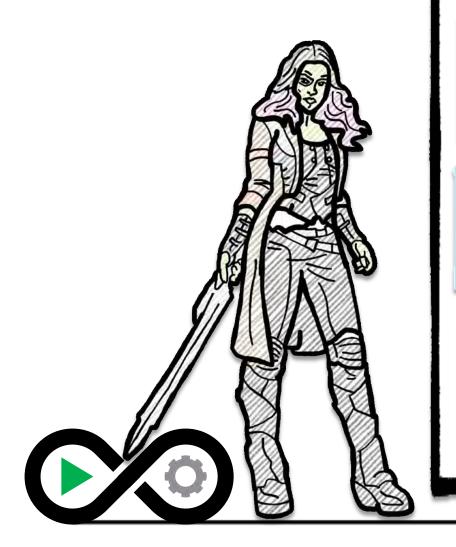
Process



- 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



Understanding of the User Story

Question

Development work is not ready to begin

Rule

User Story might be too large

Example "The one where..."

Rule might be too dense

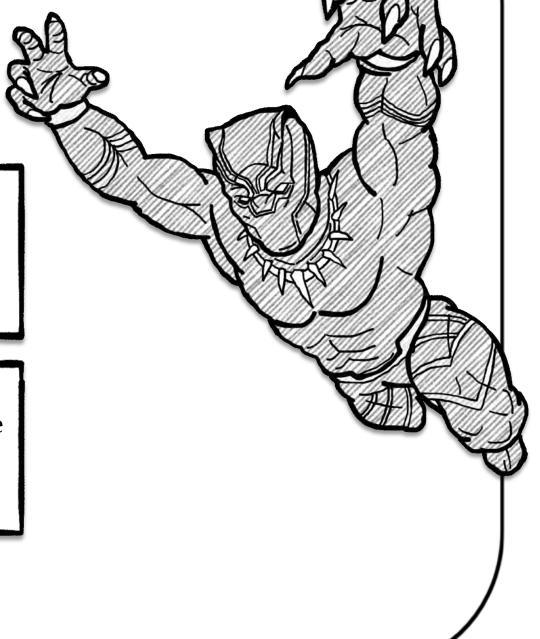
Benefits

Creates a shared understanding

Examples become user scenarios

Rules become acceptance criteria

Reduces rework of large or unclear stories





An Example Example Map

Present at a Virtual Conference

Presentation must be stored in an accessible location

Speaker must have a machine capable of AV

Conference must have means to record presentation

GoTo Meeting is

valid

Will the session be live for attendees?

How do you

on activities

virtually?

address hands-

Will the

session be edited afterward?

Will the recorded presentation only be available to paid attendees?

Slideshare is valid

Lenovo ThinkPad has a built-in speaker/ microphone

MacBook Pro has a built-in speaker / microphone

Confide is not valid



Youtube is valid

A Word of Advice

Good Examples should be BRIEF:

- Business Language enables collaboration and feedback
- Real Data helps to discover white spots in requirements
- Intention revealing way to describe the tests by focusing on what we wanted to achieve and not how
- Essential include only relevant details in the scenario
- Focused the scenarios should illustrate a single rule only



Other Common Refinement Activities

- Three Amigos
- Specification Workshop
- Discovery Workshop







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



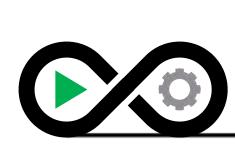


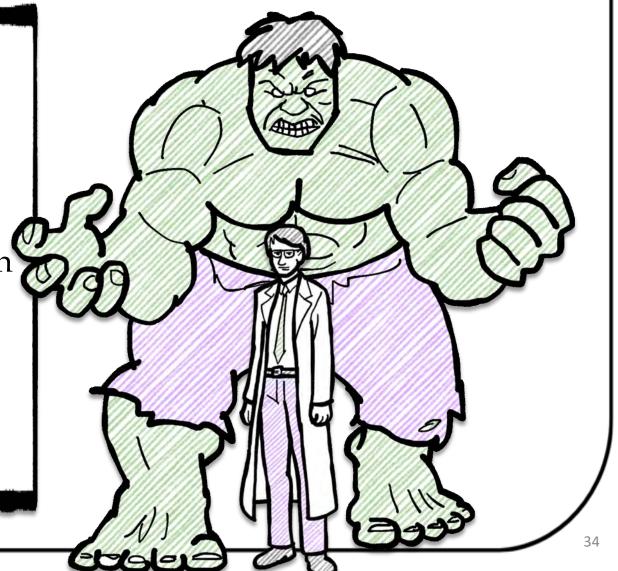
Example Mapping Group Activity

Group Activity (15-minute time-box)

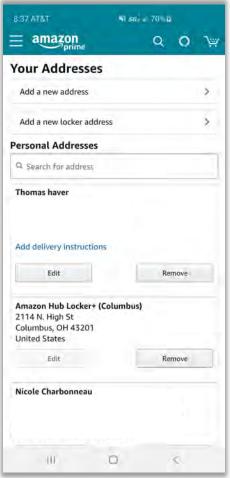
As a group, we'll conduct an example mapping session with an active User Story

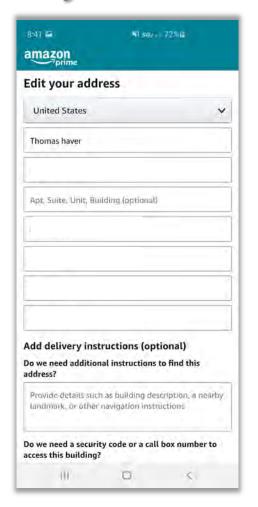
We'll review as a group

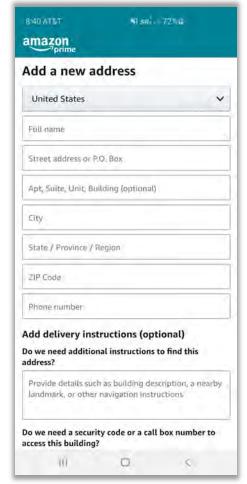


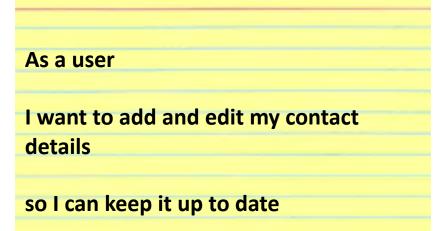


User Story Candidate









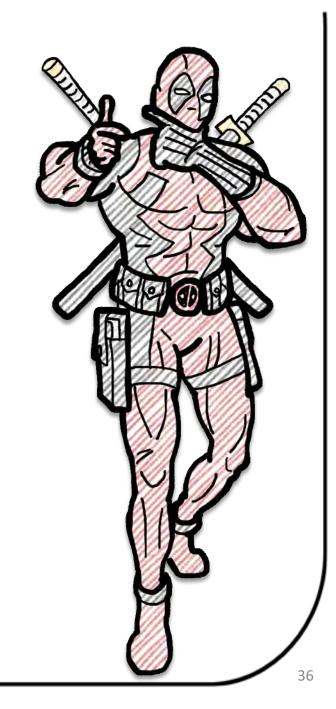
- Amazon Mobile App
- This is not intended to be an ideal story.





Questions







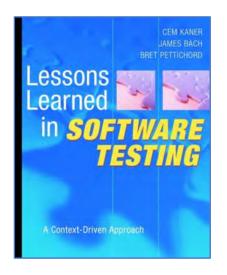


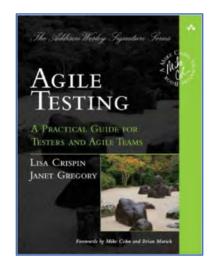
SCAN ME

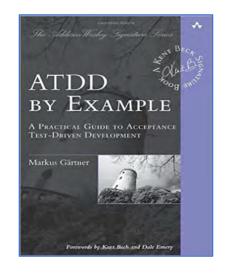
M&TTech

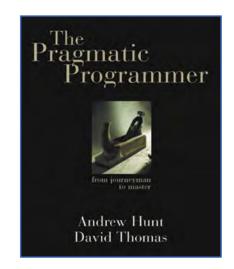


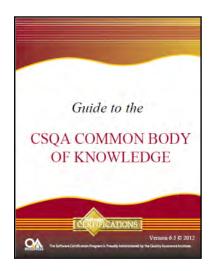
Resources | Quality

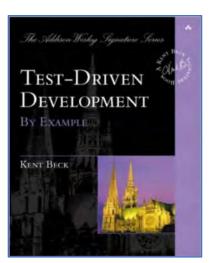






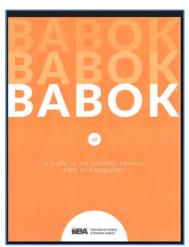


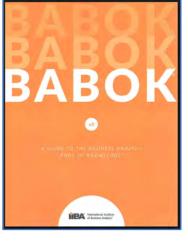


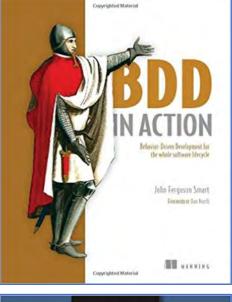


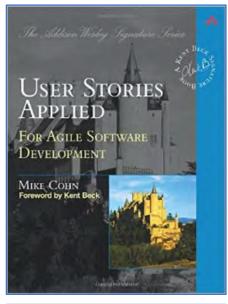


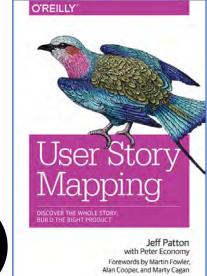
Resources | Requirements

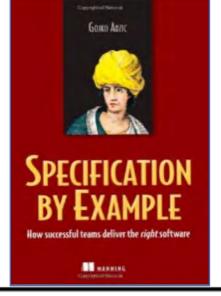


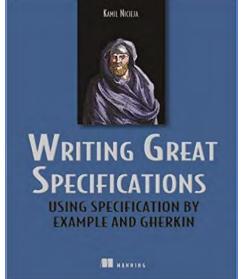


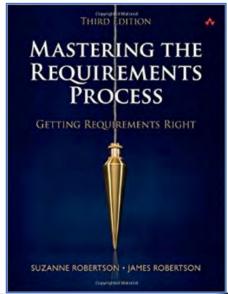






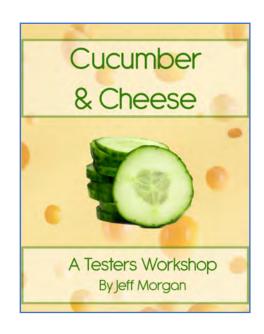


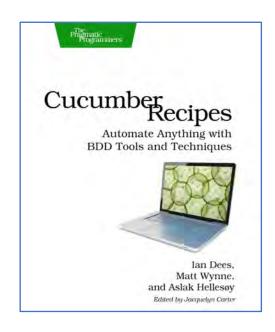


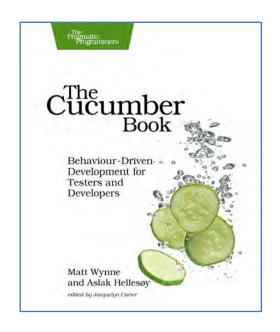




Resources | Automation









Metrics | Percent Business Rule

Percent business rule is the percent of business rules covered with specifications (test cases) for regression, project release, or deploy/patch validation (smoke tests).

PBR = Percent Business Rule

SPE = # of business rules with specifications

BR = # of total business rules



Metrics | Effective Automation

Effective automation is the percent of automation for an application's regression, project release, or deploy/patch validation (smoke tests) that can be automated from the total number of applicable automation candidates.

EA = Percent Automation

ATC = # of test cases automated

TC = # of total candidate test cases

