

## About Evan

- Based in Spokane, WA
- Been in SQA with Critical Logic since 2010
- Began as SQA Analyst, specializing in MBT
- Customer Success Manager & Product Owner
- BS Physics, MBA, CSM, SAFe certified
- Adjunct professor of Business Ethics





# Agenda

• I will talk

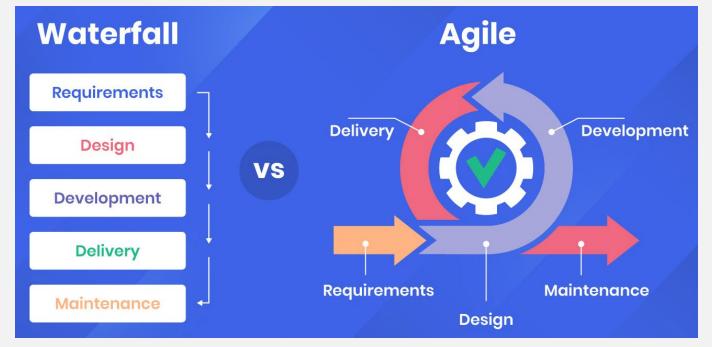
We will talk





## Overview of the current landscape of software development

• Two ends of the development methodology spectrum:



Most organizations fall somewhere along the spectrum

#### **SPEAKER** Evan Masters

# Challenges in effectively conveying requirements to development

- Organizational structure (e.g., silos)
- Lack of full understanding
- Not experienced conveying at the right level

### **SPEAKER** Evan Masters

## Consequences of ambiguous requirements

- Feedback loops lots of them!
- Rework
- Opportunity costs
- Missed deadlines
- Technical debt
- Erosion of trust and consequences

#### **SPEAKER** Evan Masters

# Multi-Modal communication as an approach to rqmt communication

- What is multi-modal communication?
  - Using more than one 'mode' of communicating
- Most requirements are conveyed via text and text alone
  - Specs, User Stories, unstructured descriptions of an idea
- Multi-Modal Communication is used to:
  - Common Understanding of Requirements (CURe)
  - Reduce/eliminate ambiguity
  - Make requirements more accessible

#### **SPEAKER** Evan Masters

## Ensure clarity, reduce ambiguity, and create a common understanding of the requirements

- My favorite example: Next Thursday
  - What I said (and meant!) vs what my boss interpreted

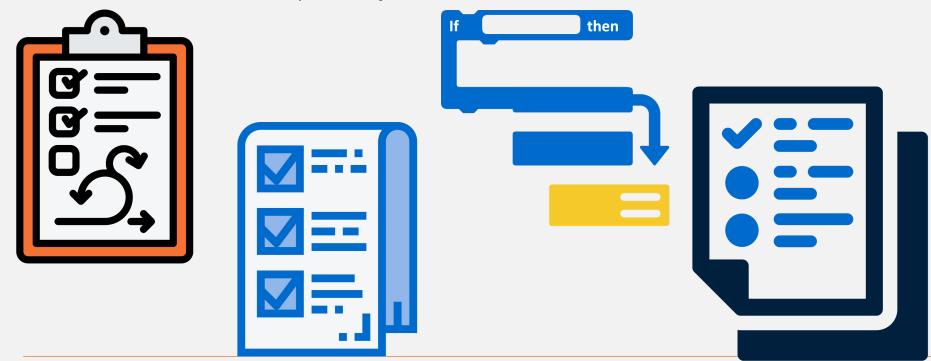
| 2021<br>CALENDAR YEAR | OCTOBE<br>CALENDAR MONTH | R       | SUNDAY<br>FIRST DAY OF WEEK |          |        |          |
|-----------------------|--------------------------|---------|-----------------------------|----------|--------|----------|
| Sunday                | Monday                   | Tuesday | Wednesday                   | Thursday | Friday | Saturday |
| 26                    | 27                       | 28      | 29                          | 30       | 01     | 02       |
| 03                    | 04                       | 05      | 06                          | 07       | 08     | 09       |
| 10                    | 11                       | 12      | 13                          | 14       | 15     | 16       |

Thursday, October 14<sup>th</sup>, 2021

#### **SPEAKER** Evan Masters

## Ensure clarity, reduce ambiguity, and create a common understanding of the requirements

- Increase accessibility of requirements
  - Broader audience
  - Different consumption styles



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## **Success: Some Case Studies**

- Department of Defense Contractor
- Finance sector
- Start up working with Dept of Veteran's Affairs

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## Multi-Modal vs. Traditional Methods

Some specs rely heavily on written documentation

Ambiguities – such as the word 'biweekly'





## **SPEAKER** Evan Masters

## Resetting the standard of communication

- Ensuring that all stakeholders have a common understanding of the requirements (CURe)
- Facilitating communication between stakeholders with different language skills or learning styles
- Making the requirements more accessible to stakeholders with disabilities
- Improving the efficiency and effectiveness of the requirement development and communication process

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## Accuracy, Speed, and High-Quality

- If a picture is worth 1,000 words, how many are a video worth?
- Mockups and prototypes!
- Less rework and nipping tech debt in the bud

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## **Best Practices and Guidance**

- Identify the stakeholders
- Understand the needs of stakeholders
- Choose the right communication methods
- Use multiple communication methods
- Be flexible and reactive
- Get feedback
- Continuously improve

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## Conclusions

- Don't let PROCESS get in the way of quality
- Take the time to take a step back (often!)
- You're all on the same team
- What are YOUR experiences?

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