

# Applying the Quadrants to Testing in Continuous Delivery

TestRail and Travis CI, October 2020

Janet Gregory  
@janetgregoryca

Lisa Crispin  
@lisacrispin

Agile Testing Fellowship



Copyright 2020

@janetgregoryca @lisacrispin



1

		<h2>A little about Janet and Lisa</h2> <ul style="list-style-type: none"> <li>• first agile teams about 2000</li> <li>• <i>Agile Testing Condensed</i> 2019</li> <li>• <i>Agile Testing</i> 2009</li> <li>• <i>More Agile Testing</i> 2014</li> <li>• <i>Agile Testing Essentials</i> video course 2017</li> <li>• “Agile Testing for the Whole Team” 3-day course</li> <li>• Agile Testing Fellowship, 2017</li> </ul>
	<p>livelessons®</p> <p>Agile Testing Essentials</p> <p>Lisa Crispin Janet Gregory</p> <p>video</p>	<p><b>“Agile Testing for the Whole Team” now available as a remote course!</b></p>
<p>@janetgregoryca @lisacrispin</p>	<p>2</p>	

2

I am always doing that which I cannot do, in order that I may learn how to do it.

~Pablo Picasso

@janetgregoryca @lisacrispin



3

---

## Our message today

---

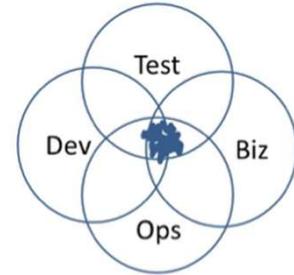
How using the agile testing quadrants model can identify risks and testing activities to help grow a quality-focused DevOps culture and succeed with continuous delivery / deployment.



4

## What's "DevOps"?

- Whole team approach to quality – applied to Operations too
- Small, frequent, low-risk changes
- It's a culture shift
- No more throwing the release candidate over the wall to Ops
- We build it – we run it – we own it!

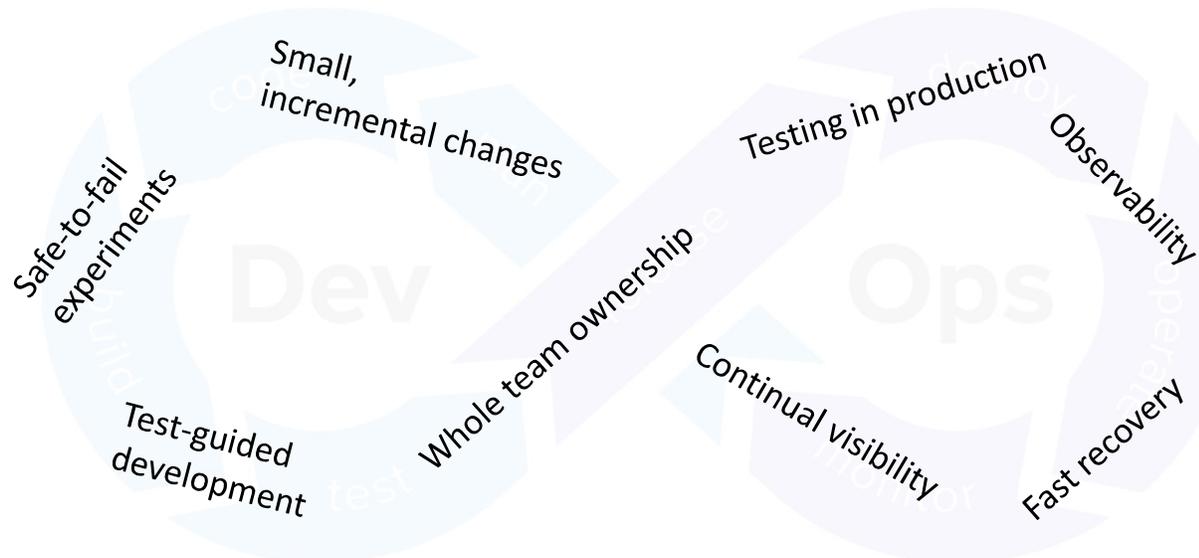


@janetgregoryca @lisacrispin



5

## A quality-focused DevOps culture means ...



@janetgregoryca @lisacrispin



6

## What is continuous delivery?

Continuous Delivery is the ability to get changes of all types—including new features, configuration changes, bug fixes and experiments—into production, or into the hands of users, *safely* and *quickly* in a *sustainable* way.

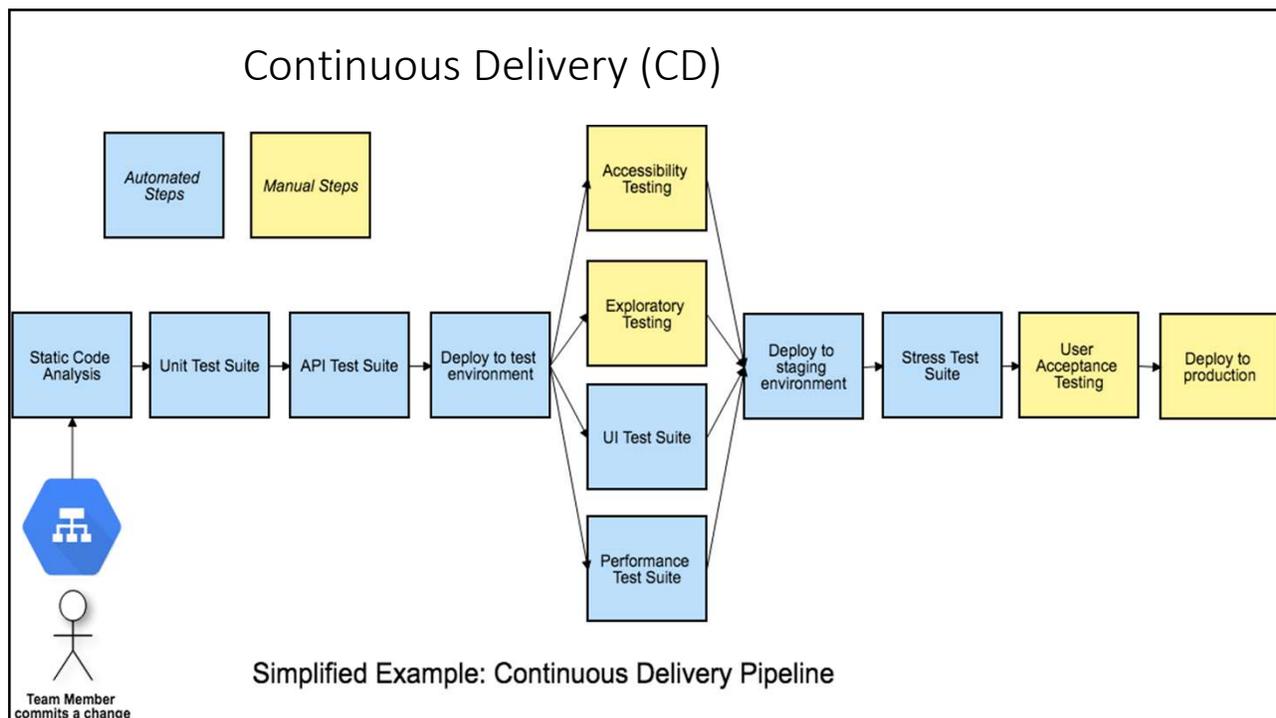
We achieve all this by ensuring our code is *always* in a deployable state, even in the face of teams of thousands of developers making changes on a daily basis.

~ Jez Humble and Dave Farley

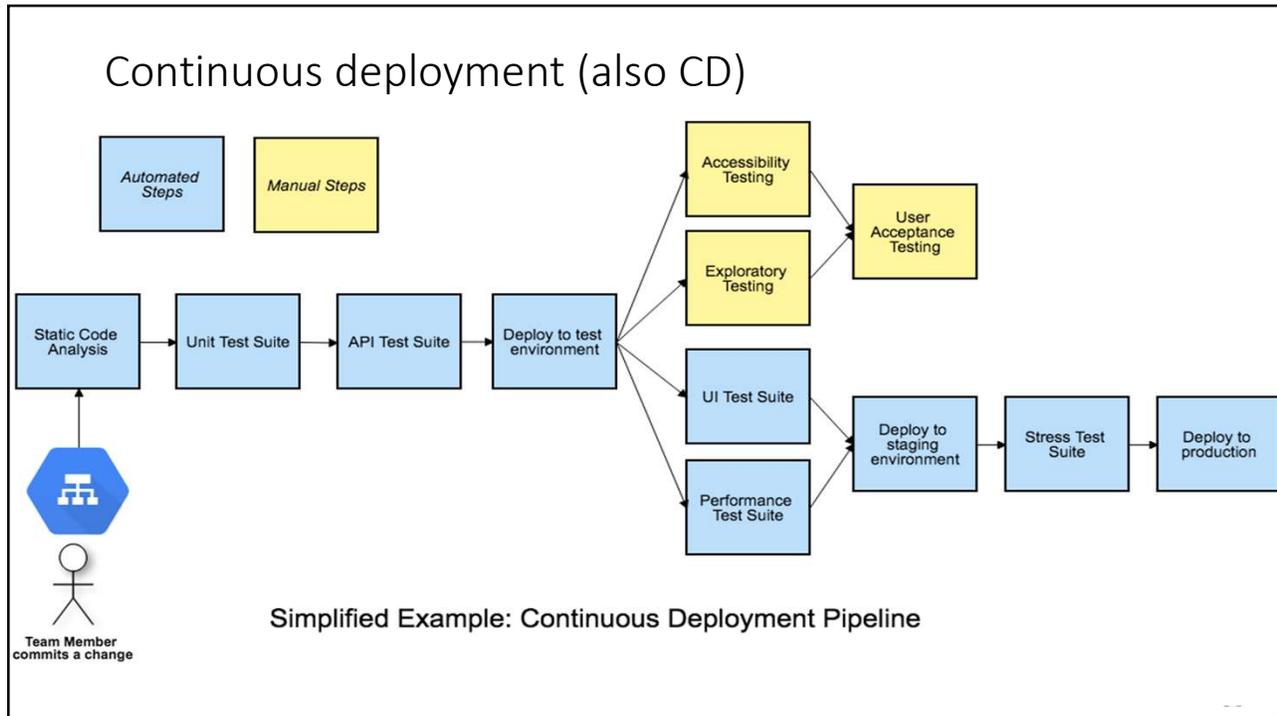
@janetgregoryca @lisacrispin



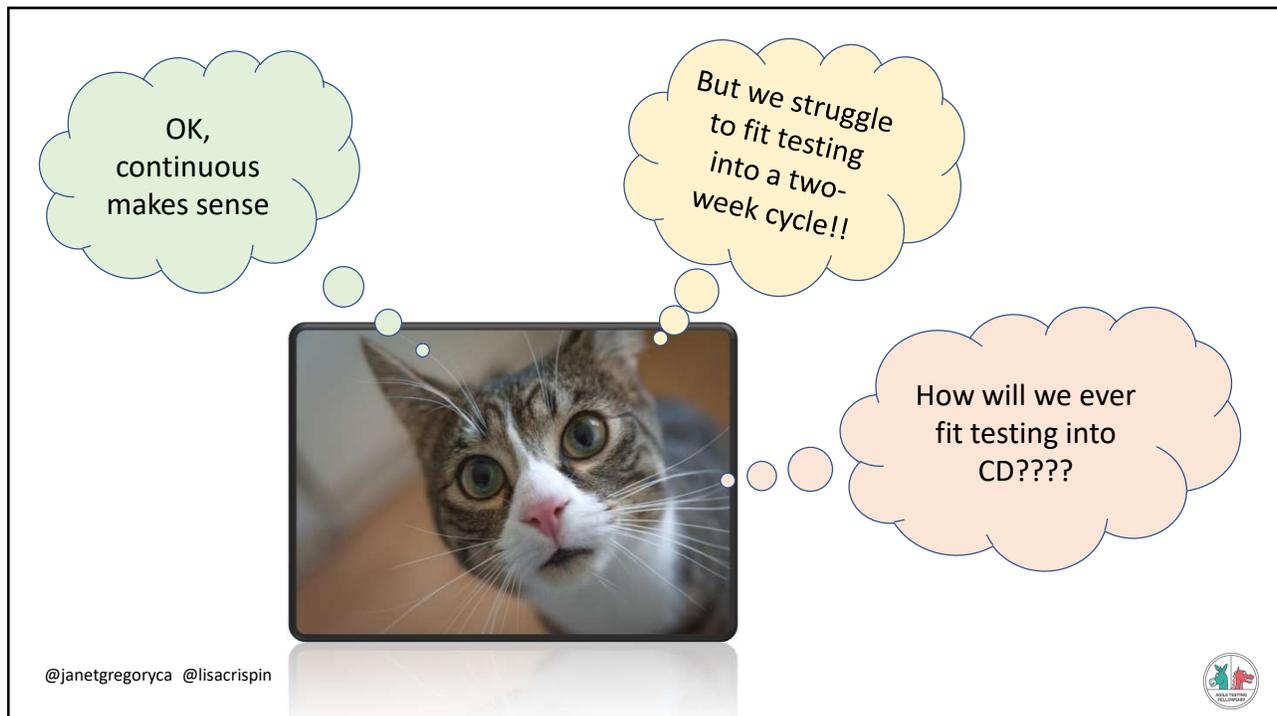
7



8



9

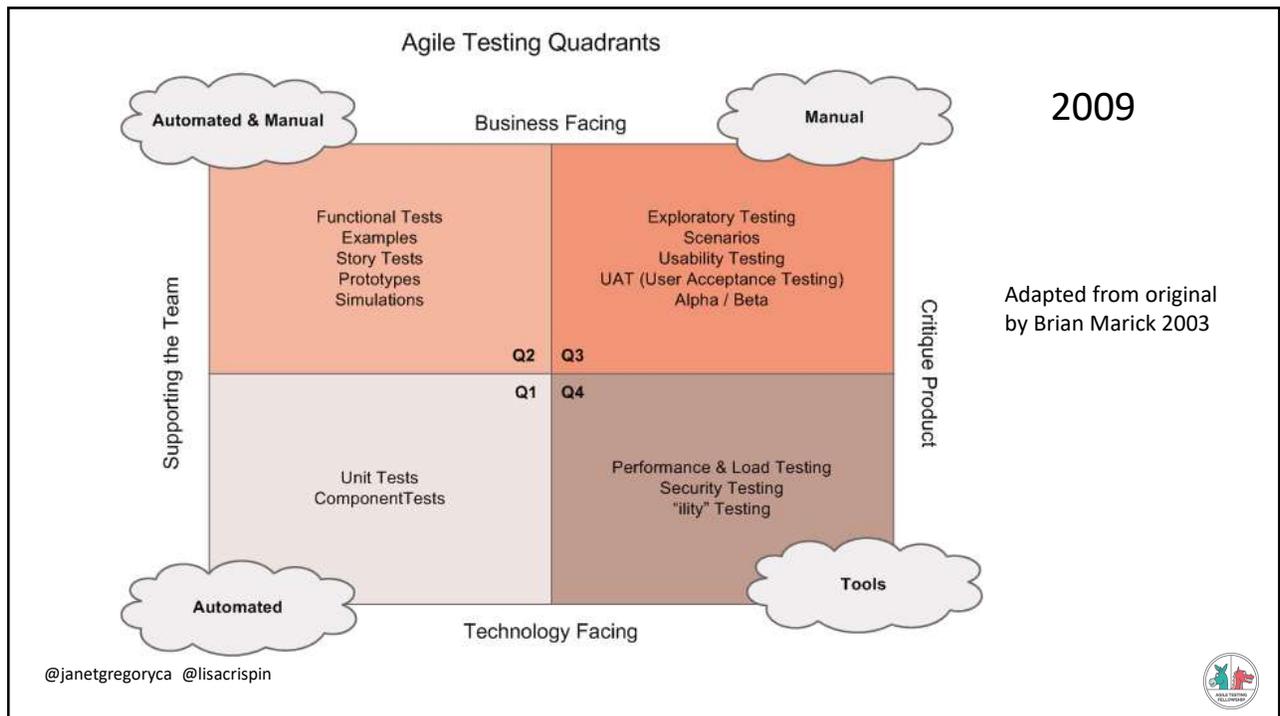


10

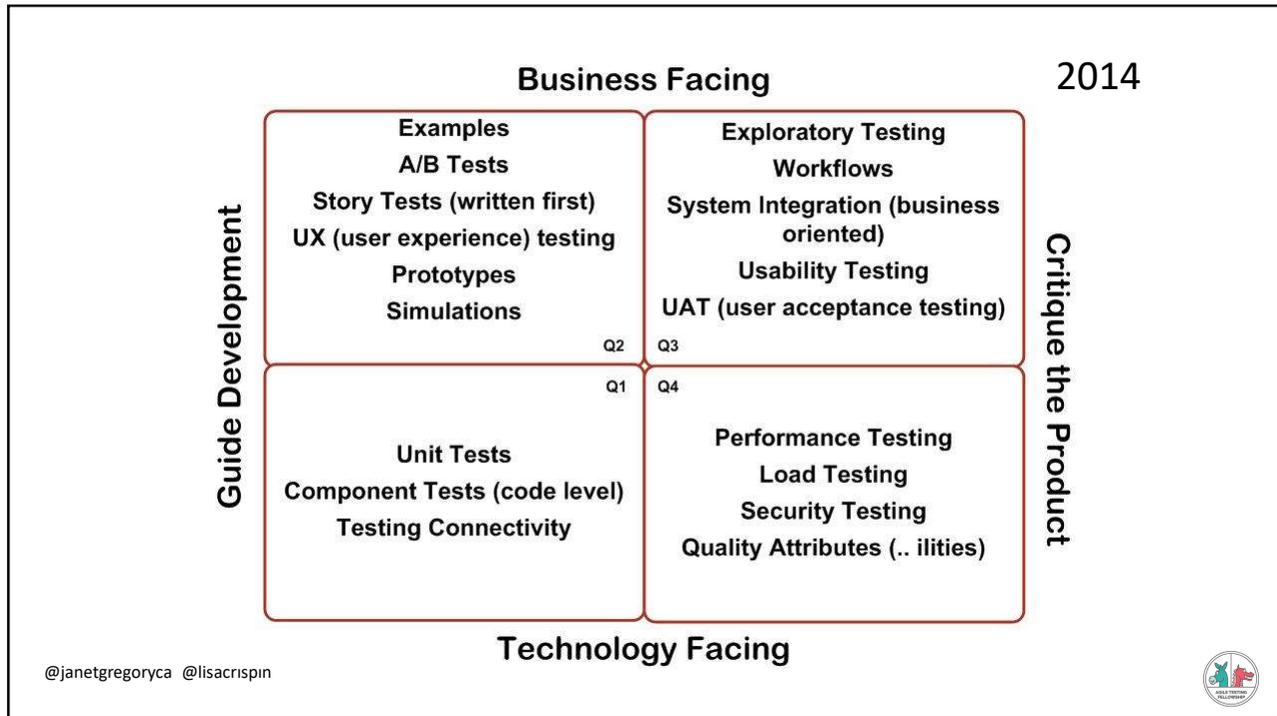


Photo by Suzanne D. Williams on Unsplash

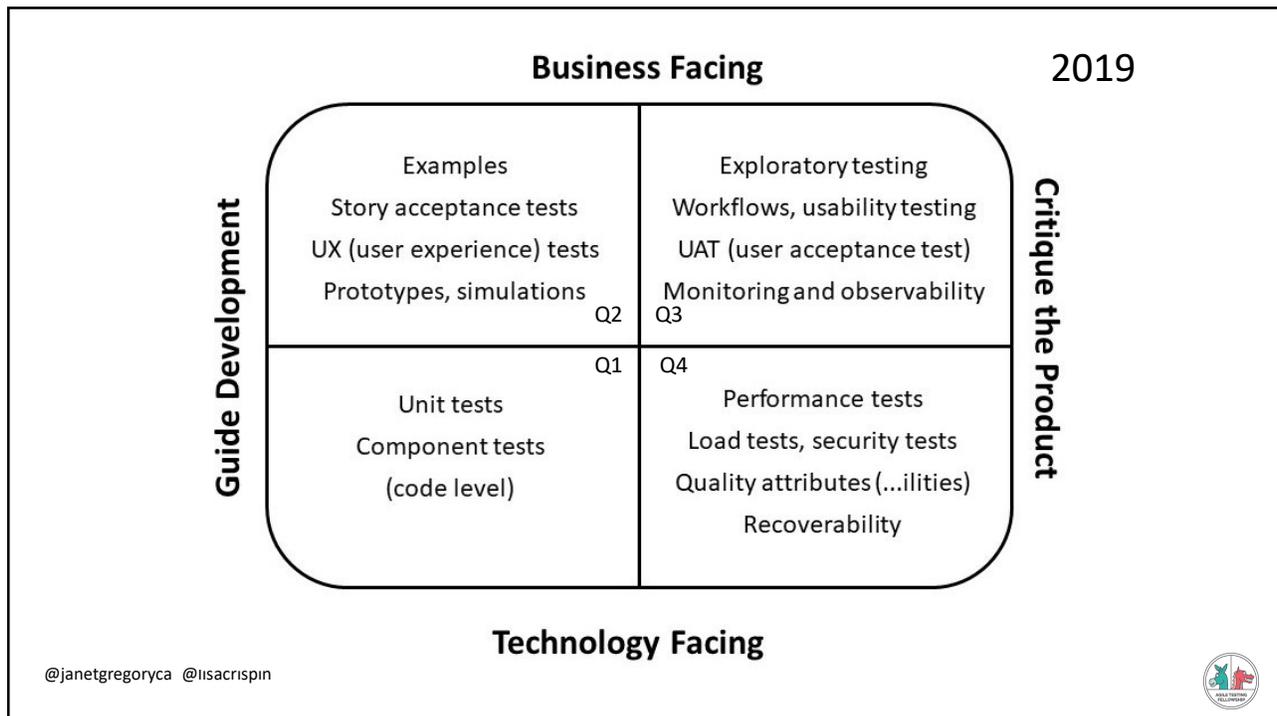
11



12



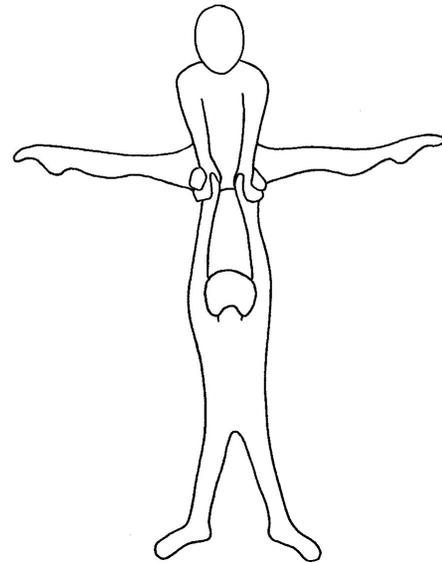
13



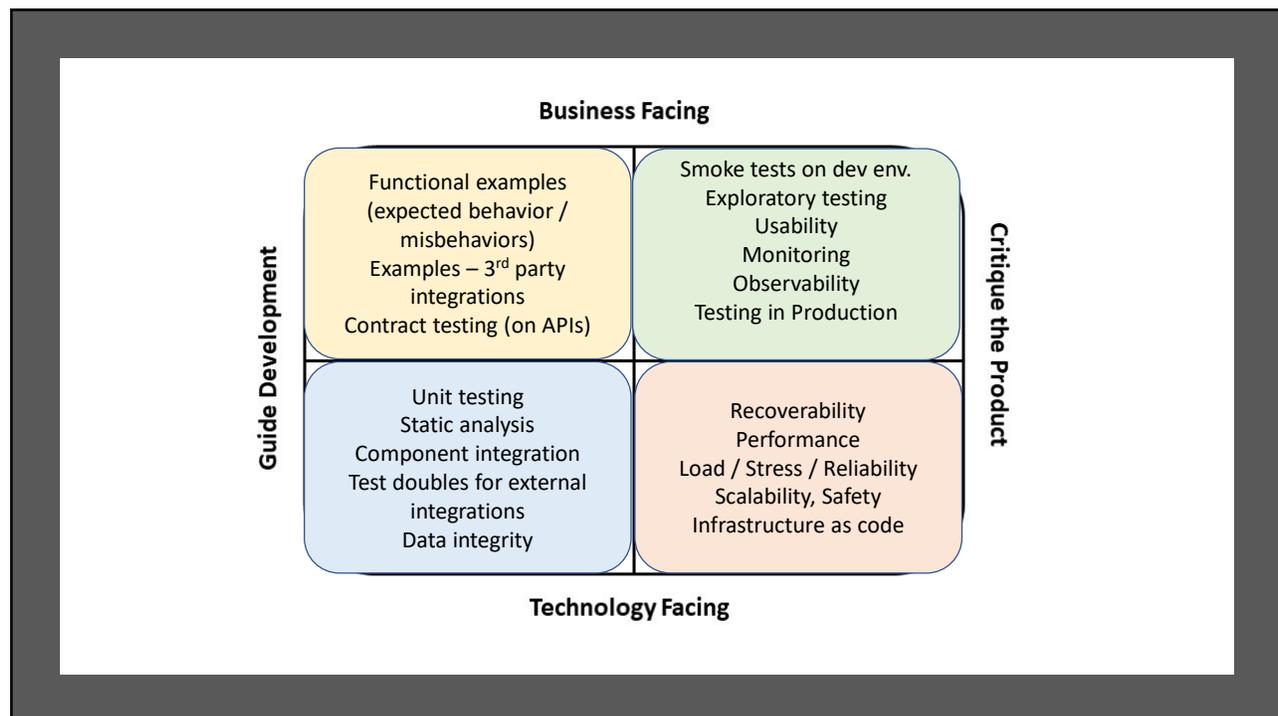
14

## Power of the quadrants

- A thinking tool
- Provides a common language
- Emphasizes “whole team”
- Plan testing at different levels
  - Tests for “Story Done”
  - Tests for “Feature Done”
  - Tests for “Release Done”



15



16

## Apply the quadrants to a deployment pipeline

- Infrastructure as code
- Test environments
- Team testing skills

Photo by Sven Kucinic on Unsplash

17

## Evaluate risks and plan mitigation strategies

Release feature toggles – “hide” changes until confident to release

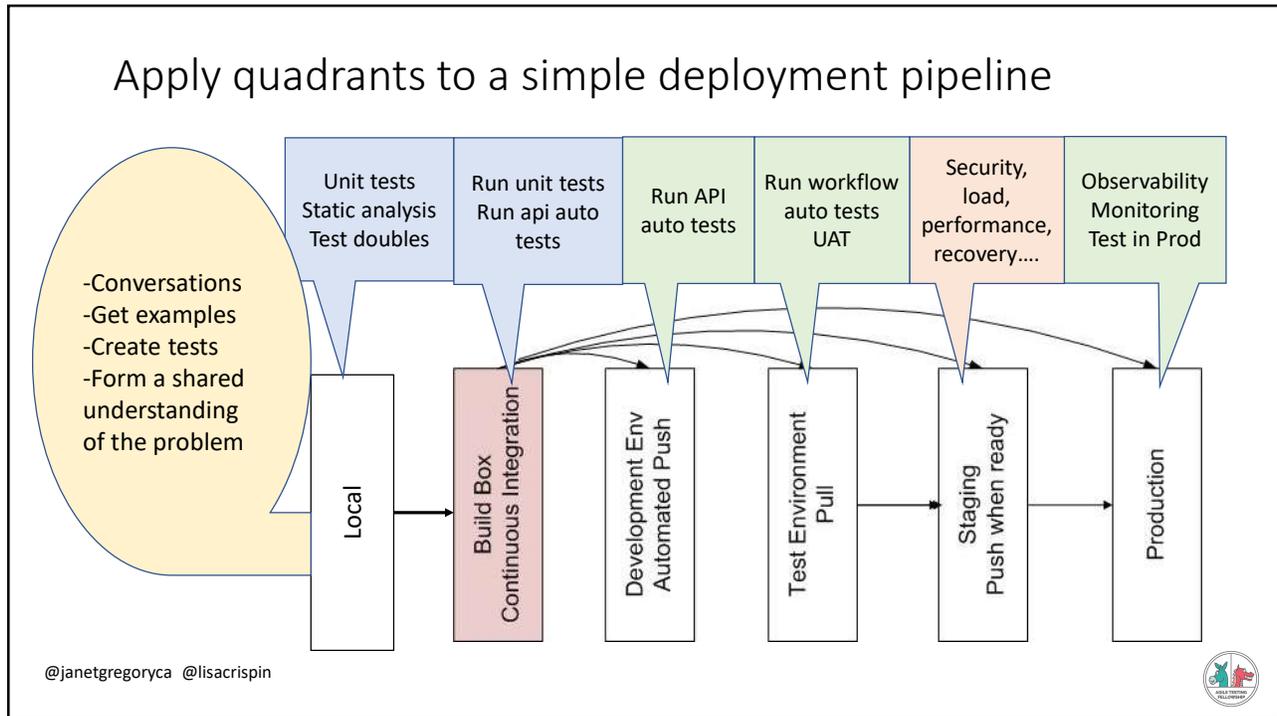
- Enable incremental/iterative approach
- For tests that critique the product



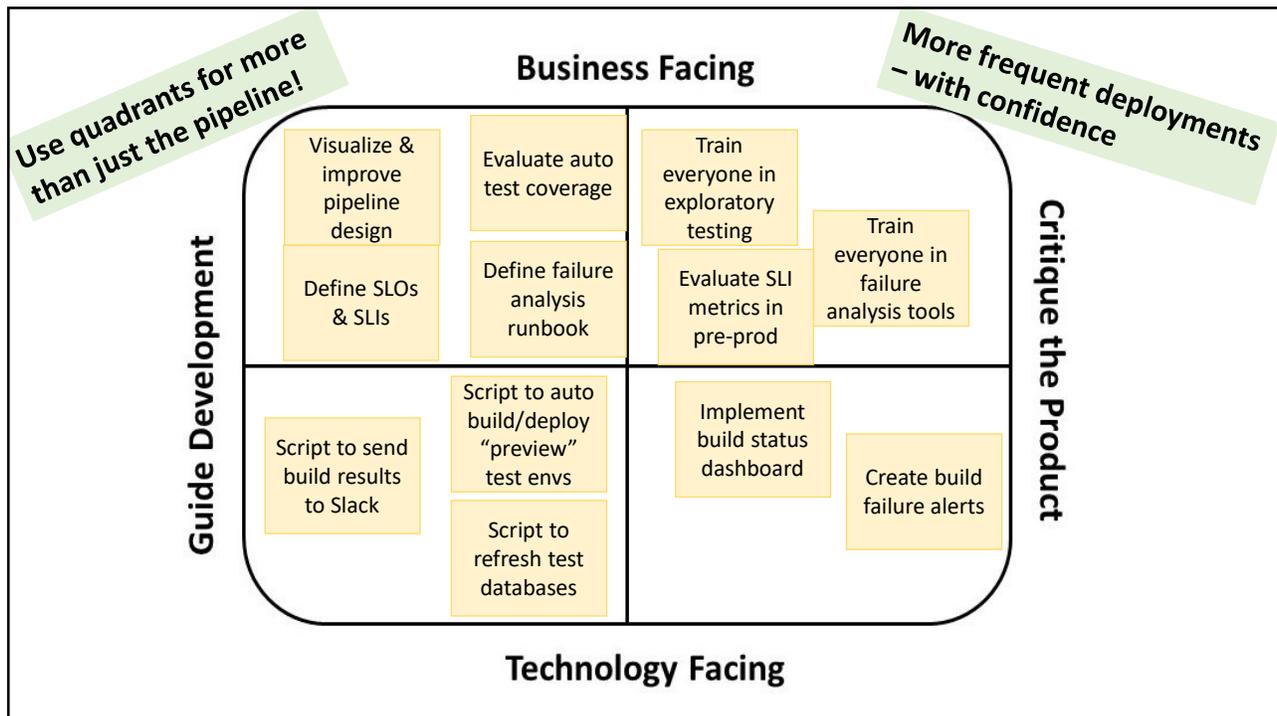
What risks will you accept pending feedback in production?

- scale, data, networking, configuration, user behavior

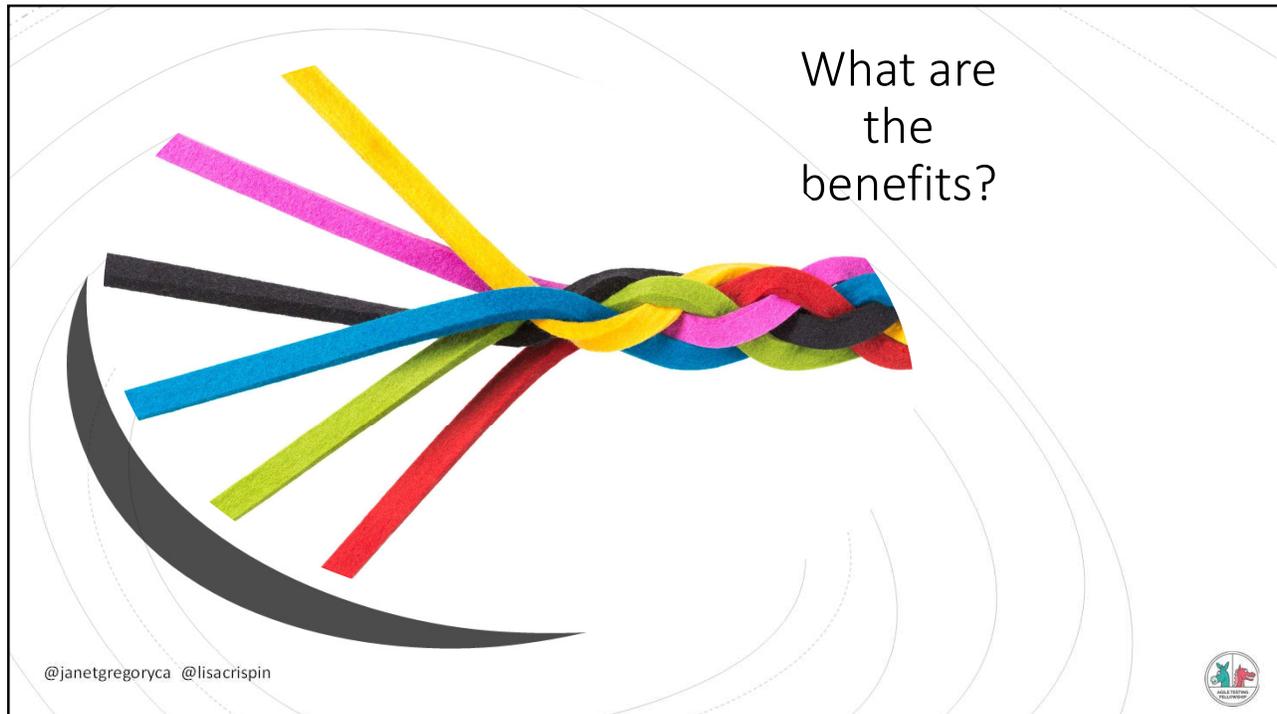
18



19



20



21

Improved communications

*No matter how it looks at first, it's always a people problem.*  
-- Jerry Weinberg

Most software problems are communication problems!

The quadrants give us a framework to help with:

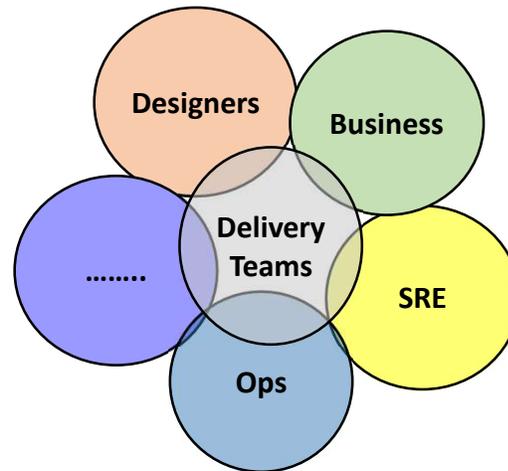
- Common language
- Shared understanding
- Whole team approach to testing

@janetgregoryca @lisacrispin

22

## Getting every perspective

- Programmers
- SREs / platform engineers
- Ops specialists
- Business stakeholders
- Testers
- Designers
- ....

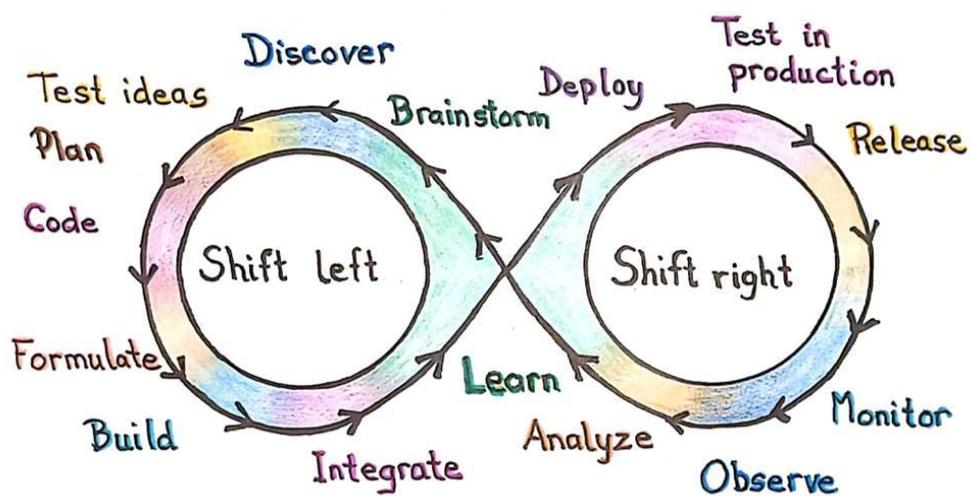


@janetgregoryca @lisacrispin



23

## Applying test activities continuously



@janetgregoryca @lisacrispin

Graphic by Janet Gregory, inspired by Dan Ashby



24



Photo by Bekir Domex on Unsplash

## Release with confidence

---

It's all a balance, and it depends on your context

25 

25

## Further reading

<https://agiletester.ca/more-agile-testing-the-book/>

*Download Chapter 8: Using Models to Help Plan*  
*Download Chapter 23: Testing in DevOps*

<https://agiletester.ca/agile-testing-condensed-a-brief-introduction/> also has information on both of these topics

@janetgregoryca @lisacrispin 

26

*Agile Testing Condensed, A Brief Introduction*  
*Agile Testing: A Practical Guide for Testers and Agile Teams*  
*More Agile Testing: Learning Journeys for the Whole Team*

By Janet Gregory and Lisa Crispin

<https://agiletester.ca>    <https://agiletestingfellow.com>



**Contact info**

<https://lisacrispin.ca>

Email: [lisa@agiletester.ca](mailto:lisa@agiletester.ca)

Twitter: [lisacrispin](https://twitter.com/lisacrispin)

<https://janetgregory.ca>

Email: [janet@agiletester.ca](mailto:janet@agiletester.ca)

Twitter: [janetgregoryca](https://twitter.com/janetgregoryca)



27