



## **W12**

Personal Development

Wednesday, May 2nd, 2018

1:45 PM

# **Elegant Test Weapons for a More Civilized Age**

Presented by:

**Melissa Benua**

mParticle

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# Melissa Benua

## mParticle

Melissa Benua has worked in nearly every software development role—dev, test, DevOps, and program management—at companies big and small. She's created and run high-availability, high-quality services on products such as mParticle, PlayFab, Bing, Cortana, and Xbox One. Melissa discovered her love of massively-scaled systems while growing the Bing backend, where she honed the art of keeping highly-available complex systems up while undergoing massive code churn. Melissa isn't afraid to mix traditional approaches with bold new ideas to make her products better, faster, and more reliable. She's passionate not only about maximizing efficiency both in her product code and in her developer tools but also about sharing best practices among colleagues and the tech world at large.

# Elegant Test Weapons

*For a More Civilized Age*



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## **But First...**

 A disclaimer!

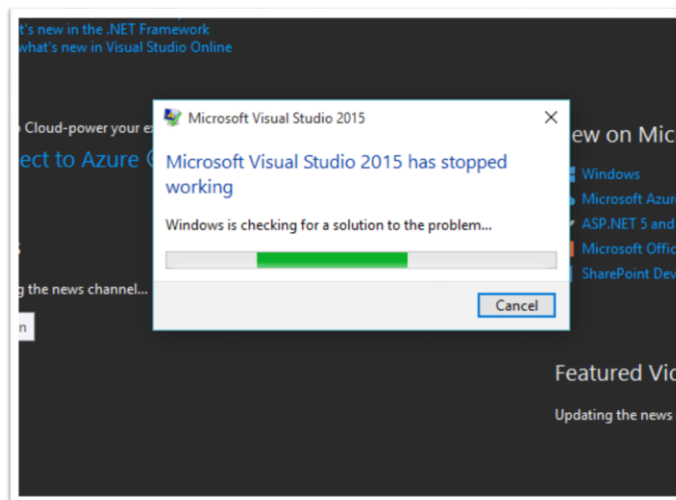
# Tools!



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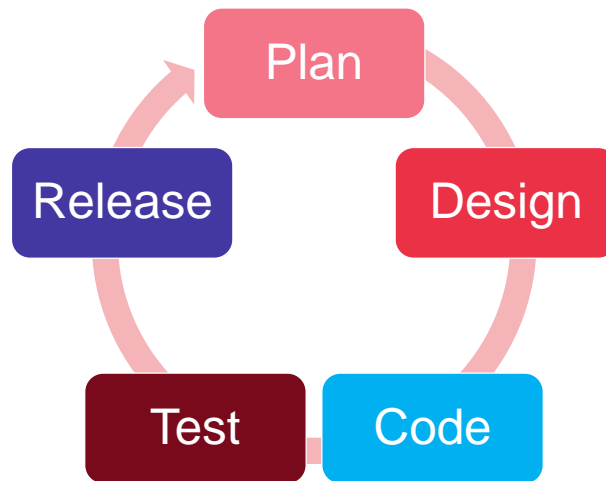
# Tools...



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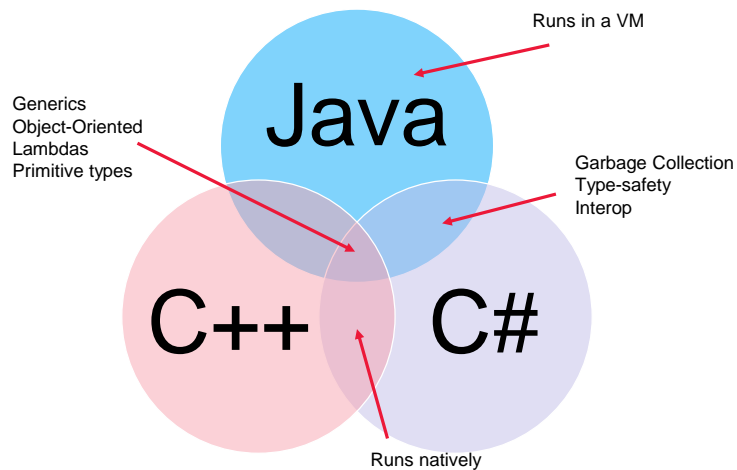
## Tool: Agile Process



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## Skills + Tools



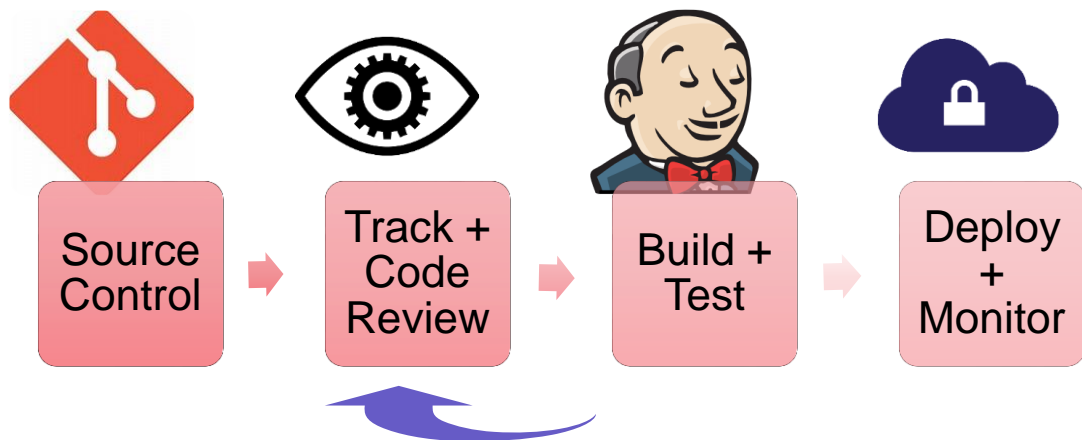
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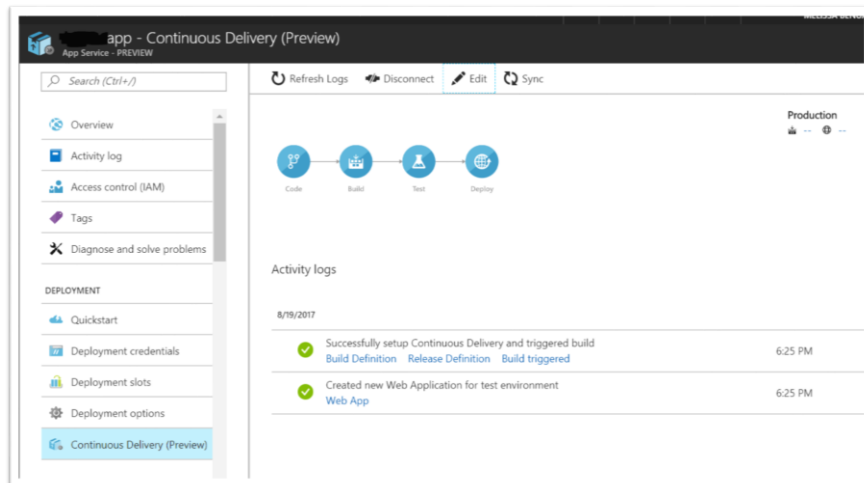
# Continuous Integration Pipeline

Skills + Tools

## CI/CD Process

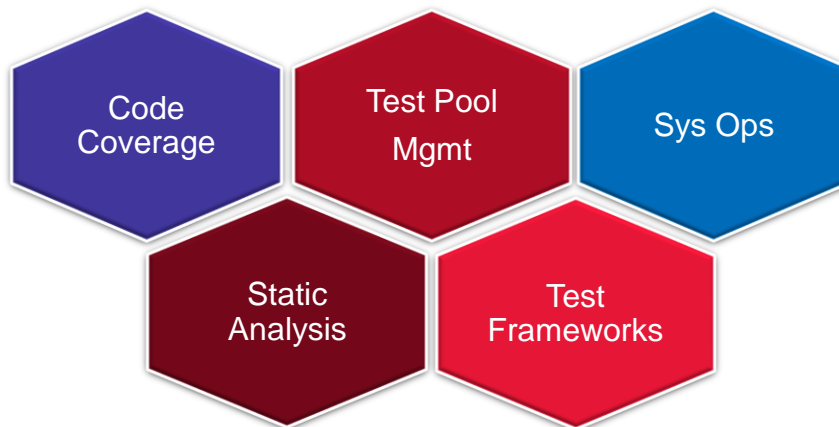


# The Tool: CI/CD Pipeline



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# The Skills

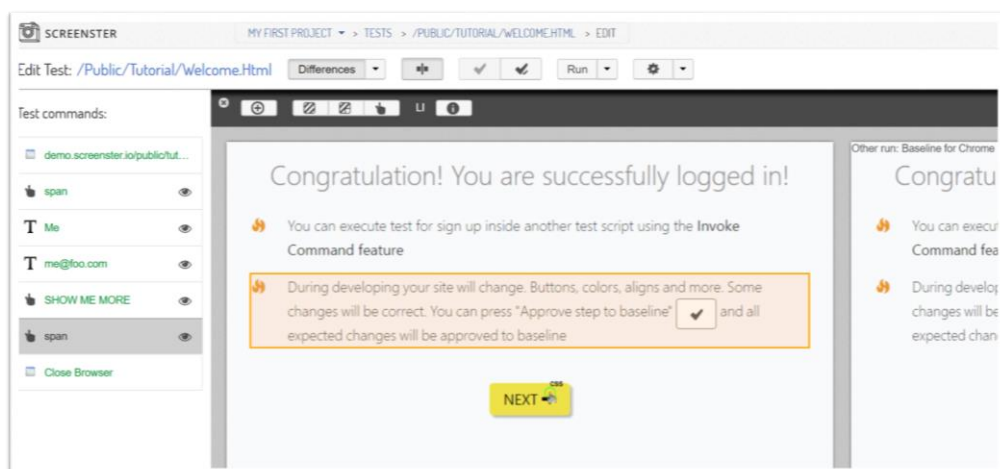


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# Automated UI Testing

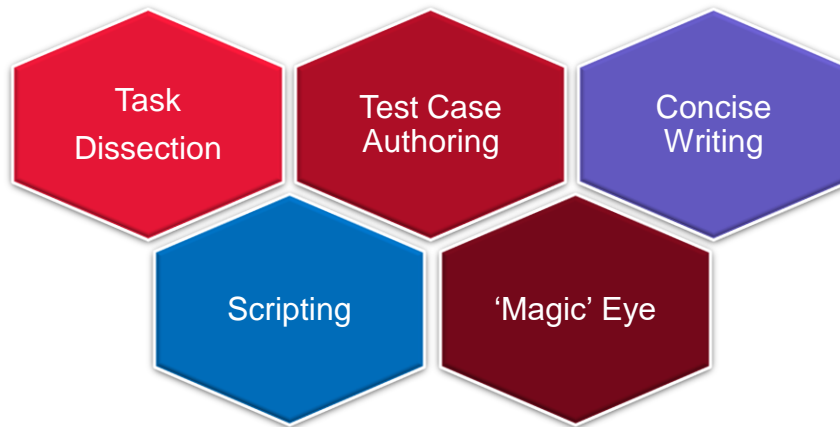
## Skills + Tools

## The Tool: Automated UI Testing





## The Skills



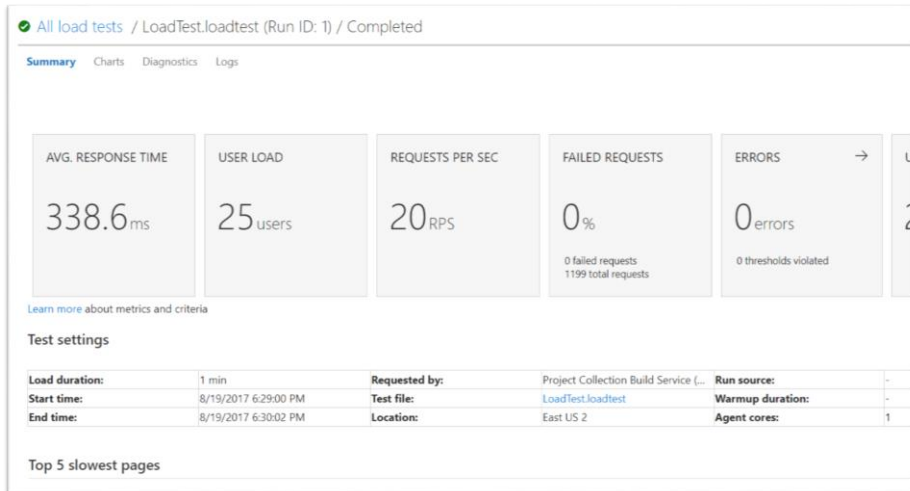
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## Automated Request Testing

Skills + Tools

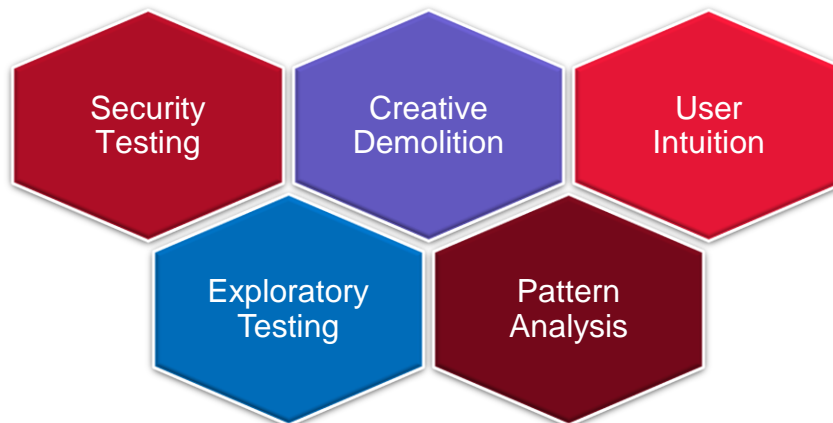
# The Tool: Traffic and Fuzz Testing



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# The Skills



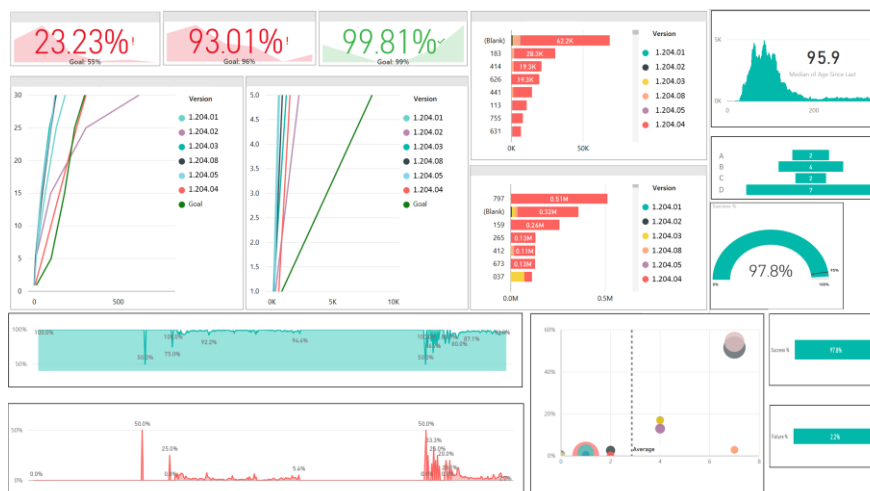
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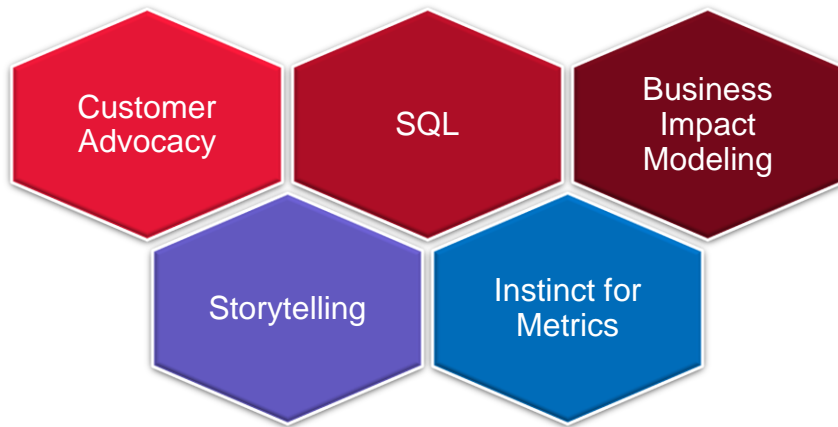
# Data Visualization

## Skills + Tools

## The Tool: Data Visualization



## The Skills



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## In Summary

Many skills are timeless!

## Keys to Success

1. Learn many great skills over your career
2. Try different tools regularly
3. ~~??????~~ engineer with elegance
4. Profit!!!

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## Thank You!



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