# Robot Framework: More than just automation

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#### Introduction

I work at Intersection, a Sidewalk Labs, Alphabet owned company.

Delivers products such as. In the past, we provided client services for

- Link Wifi Kiosks
  - Large telecom companies New York
- **Hudson Yards**
- London... and more
- Large retail companies
- MTA On-The-Go Kiosks
- Large real estate companies

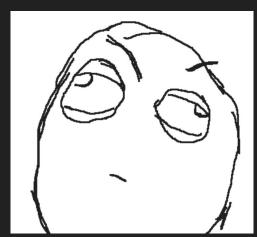






#### Automation alone is not enough...

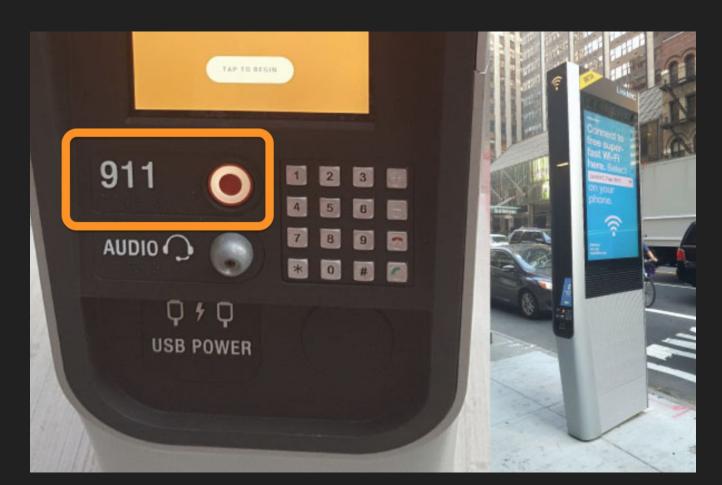
Huh??? ...

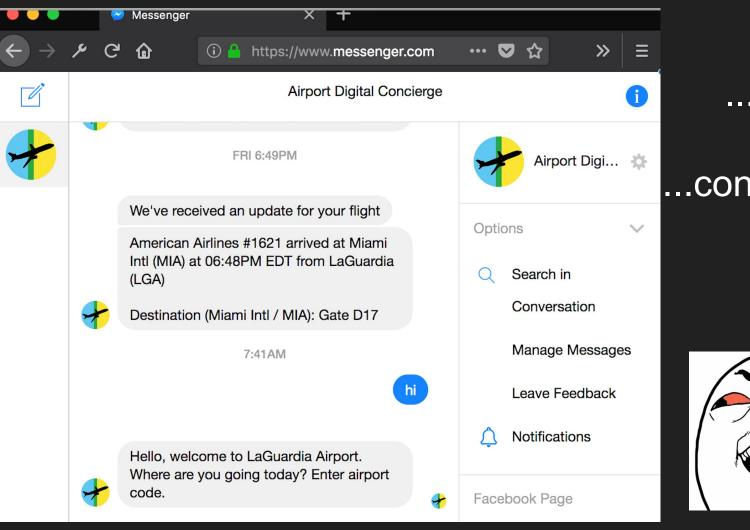


## Well...this...



#### Also...this...





...and...

...conversational

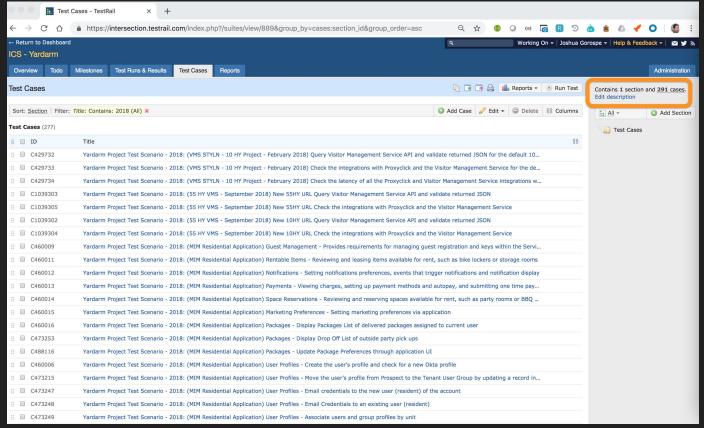
agents.



# Really quick story...

Roughly 8 months ago. I worked on a project that was supposed to be only a 2 month project ... it grew to become a 6 month project with **291 end-to-end test scenarios**... and there was only one

tester...



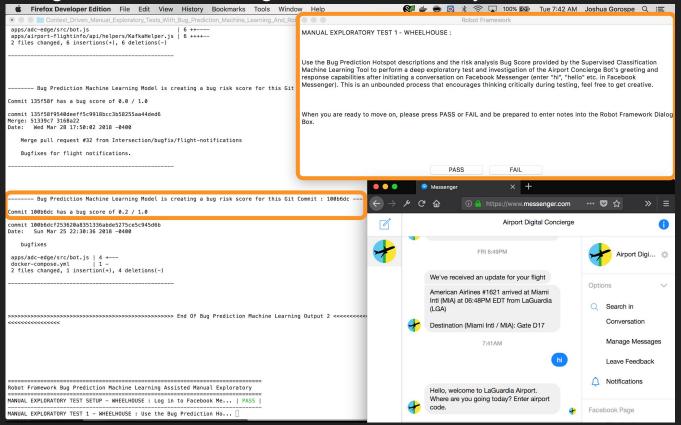
#### ... I could only automate 1/4th of it.

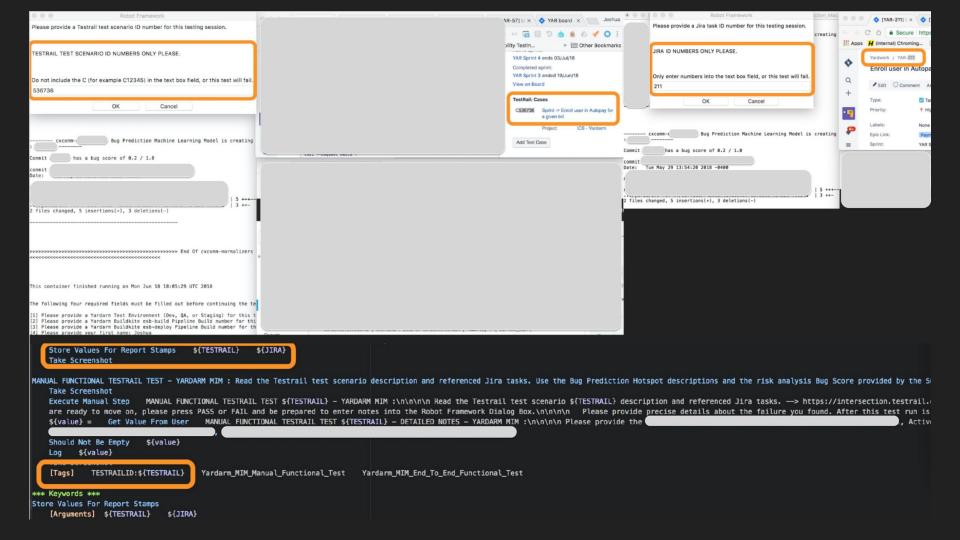
For this specific project.

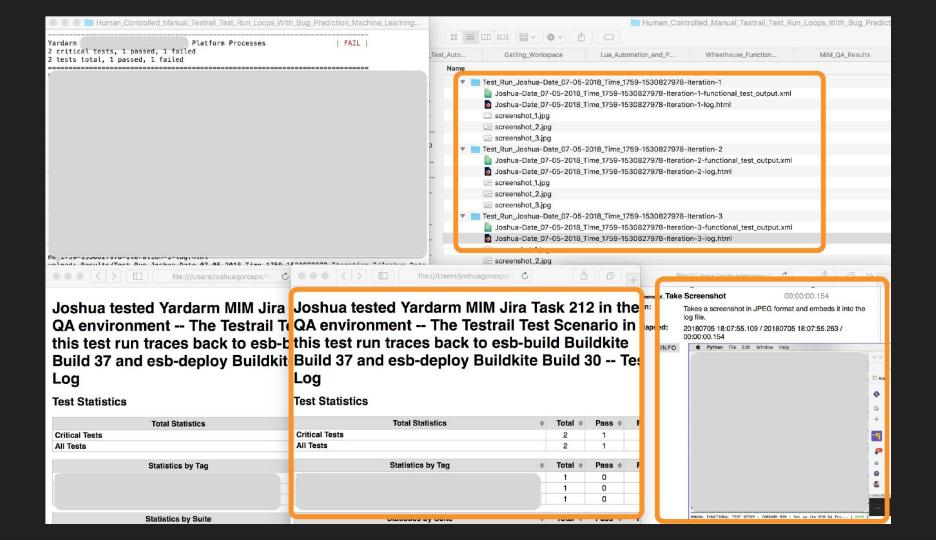
If I had focused ONLY on creating automation for 291 TestRail test scenarios, during all of those sprints...

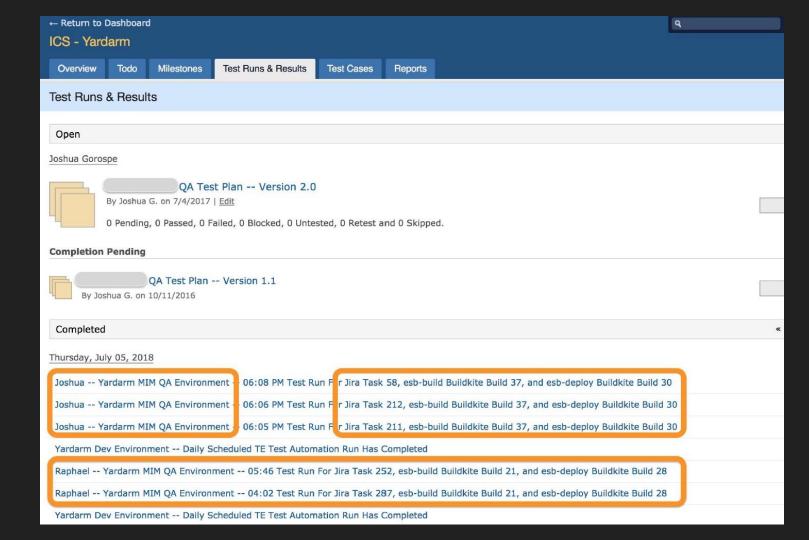
A lot of the testing would NOT get done.

I needed flexibility and freedom to rapidly search for bugs... so I set up a hybrid manual-automated approach and combined it with other tools. For example I used git log to identify bug hotspots, and generated bug prediction scores for each commit using a machine learning tool called GitRisky.



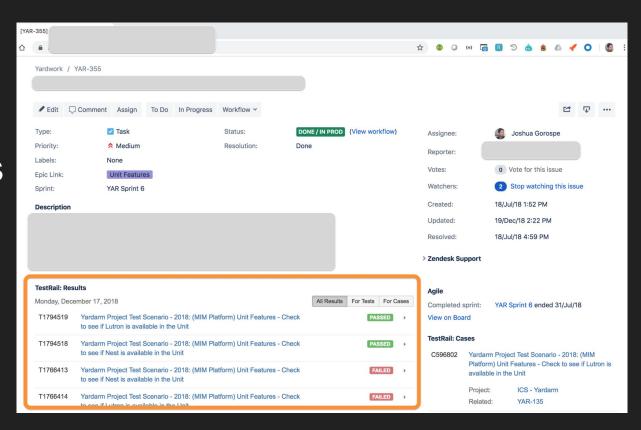






Robot Framework is the core of the CXComm TestRail + Jira test reporting process. It was a part of the success of my project.

CXComm
= Intersection's
Connected
Communities
Team



Robot Framework helped quickly bridge gaps in the CXComm test process.

It also helped developers on my team jump in, quickly get focused, learn how to think like a tester, and assist me with hunting down bugs.

If you want to see the code for a Session-based Test variation of this hybrid approach.

# https://github.com/jg8481/Robot-Framework-Lone-Tester-Strategies-RoboCon-2019

^ This link is also posted in the robocon Slack channel. ...(off-topic I also have Robot + Graphwalker + Docker model-based test examples in there as well)

In the not-so-near future...

I personally believe that a variation of this approach + <u>session-based</u> test management combined with RPA could be even more effective.

In the near future.

I want to explore Jupyter Notebook robotkernel (great idea Asko and Nicholas!). Possibly re-do my approach utilizing that, and combine it with Graphwalker (model-based test tool) and GitRisky. I wrote a Medium article describing some ideas I have about tests that learn from the tester, past test results, and generates Graphwalker paths for parallel running model-based tests in Docker.

https://ixn.intersection.com/continuous-learning-to-guide-testing-decisions-a69ee295 c1fd

^ This link is also in the robocon Slack channel.

### Thank you Robot Framework community.

Meetup Organizers, we should meet up later let's take a group photo.