



























AT ODDS WITH PRINCIPLES

Automation built out by a separate, isolated, highlyspecialized team Over-specialization and siloing, instead of cross-functional teamwork

AT ODDS WITH PRINCIPLES

New development continues simultaneously, so automation target and current state of product drift apart Lack of integration and a truly shippable product throughout



AT ODDS WITH PRINCIPLES

Automated tests arrive in a "big bang" rollout, many are not valid or passing because of the drift Huge batch, waterfalllike big bang release, instead of **incremental delivery** focused on **high-value things first**





AT ODDS WITH PRINCIPLES

More and more tests drift and fail, failures ignored, test suite rots

Lacking consistent dedication and **ownership of quality**

AT ODDS WITH PRINCIPLES

Suite abandoned, investment lost

Disposable commodities, instead of **vision** with focus on **value** (including high ROI, low TCO)



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(**-X**)















- Over 20 years in the software industry with highly crossfunctional experience – DBA, Developer, BA, Tester (with automation experience), Application Architect
- Currently Trainer, Coach, Consultant, Owner at Sodoto Solutions
- SODOTO = See One, Do One, Teach One
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REMEMBER THE PRIMARY GOAL: DONE, HIGH-QUALITY, POTENTIALLY SHIPPABLE PRODUCT

Sodoto Solutions

Do One

Teach One

See One

REMEMBER THE PRIMARY GOAL

Have you ever said something like...

- · It's done but it's not tested
- It's code complete
- It's done but not performance tested
- It's done...but DON'T ship it yet
- It's 80% done
- It's done but not Done Done
- If so, what was the next question you heard?



















TOUGH PROBLEMS

This may be hard -

we might not have this right now,

it might be a long road to get there from here

(more on this in a bit)

 but that still doesn't change the ideal, and shouldn't stop us from listening to and moving towards what stakeholders actually want















START EARLY

- OK, but what about lack of environments, toolsets, build server integration, etc.?
- Low-hanging fruit rarely require any "automated testing tools" (Selenium, CodedUI, QTP, Cucumber, Fit, etc.)
 - · DB scripts to reproduce manual test data setup
 - Scripts to sample and scrub data from production
 - Blasting a server with hundreds of headless agents...who do we have on our team again? Building agents to hit REST services daily?...



BUILD QUALITY IN TO NEW DEVELOPMENT, EVERY SPRINT

Sodoto Solutions

Do One

Teach One

See One

BUILD QUALITY IN TO NEW DEVELOPMENT, EVERY SPRINT

We BUILD quality in!!!

Quality is JOB #1 !!!!

But what are some actual, practical mechanisms to do this?



THINK: TEST DRIVEN

- Not just what you traditionally associate with TDD (not just unit tests)
- · You might be familiar with this basic sequence:
 - Thinking about testing starts with Backlog Refinement (Grooming) (or Requirements Gathering phase)
 - Use Acceptance Criteria (Requirements) to frame out Acceptance Tests, during Sprint Planning (or otherwise the beginning of your cycle)
 - Use Acceptance Criteria to frame out Unit Tests, where appropriate
 - All tests grow and adapt during the Sprint (or whatever you call your cycle) as implementation fills in
 - Testing specialists and coding specialists work together throughout the Sprint, sharing activities and ideas

























RECORD / PLAYBACK: A JOKE, RIGHT?

"Record-playback tools are almost always a bad idea for any kind of automation, since they resist changeability and obstruct useful abstractions. They are only worth having as a tool to generate fragments of scripts which you can then edit as a proper programming language, in the manner of Twist or Emacs."

- Martin Fowler







RECORD/PLAYBACK VS. HAND CODING

- Let's have a debate!
- NO
- Again, it's not WHICH, it's WHEN. What's the Context?
- Wouldn't it be great if we could keep the investment low when things are volatile, and increase the investment as things stabilize?



































KEEP IT HEALTHY

The previous stuff was "just" the technical stuff, the mechanics...what about "Individuals and Interactions over Processes and Tools"???

- · Inspect and adapt your automation practices themselves
- I haven't provided any magic bullets here, and no one can foresee
 your exact problems
- WARNING: Inspection & Adaptation [NOT necessarily EQUAL TO] Changing Values
 - I don't think the customer's/stakeholder's obsession with shippable, working software is going to change any time soon, so valuing that probably isn't a good candidate for changing/adapting

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