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leading companies **optimize**
their operations by
automating and integrating
key business processes using
practical technology solutions

agilethought

insightful solutions :: innovative technologies

Automated Tests into Automated Builds!

HOW TO PUT THE RIGHT TYPES OF
AUTOMATED TESTS INTO THE RIGHT
AUTOMATED BUILDS.

Automated Builds into Automated Tests



Automate
Boring!



Build and
Test
Consistently



Improve
Quality

Automation of the Software Process

- Software Development has at least 4 types of automated testing
 - Unit Testing
 - Acceptance Testing
 - Performance Testing
 - UI Testing

Automating Building Software

Automation Benefits

- Repeatable
- Scalable Regression Testing

Automation Non Benefits

- Cannot take different paths

Types of Builds

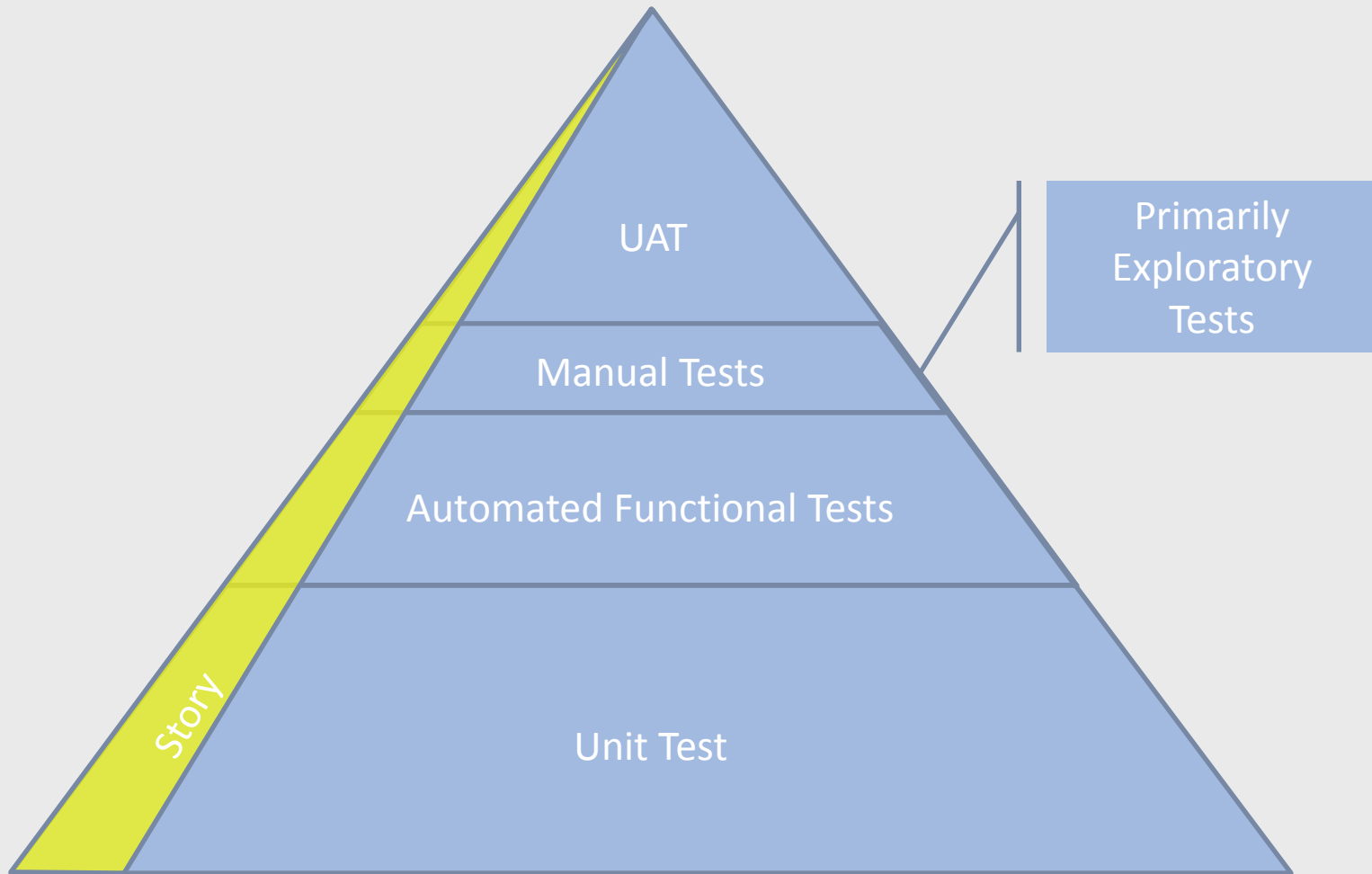
Developer

- Done Locally
- Should Get Latest before Compile.
- Done at Feature level

Project level

- Integration
- All checked in code compiles
- All Automated Tests Pass
- Deploy to integration Level

Testing Assumptions



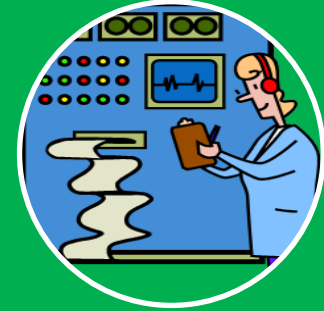
Build Automation Types



Continuous
Integration



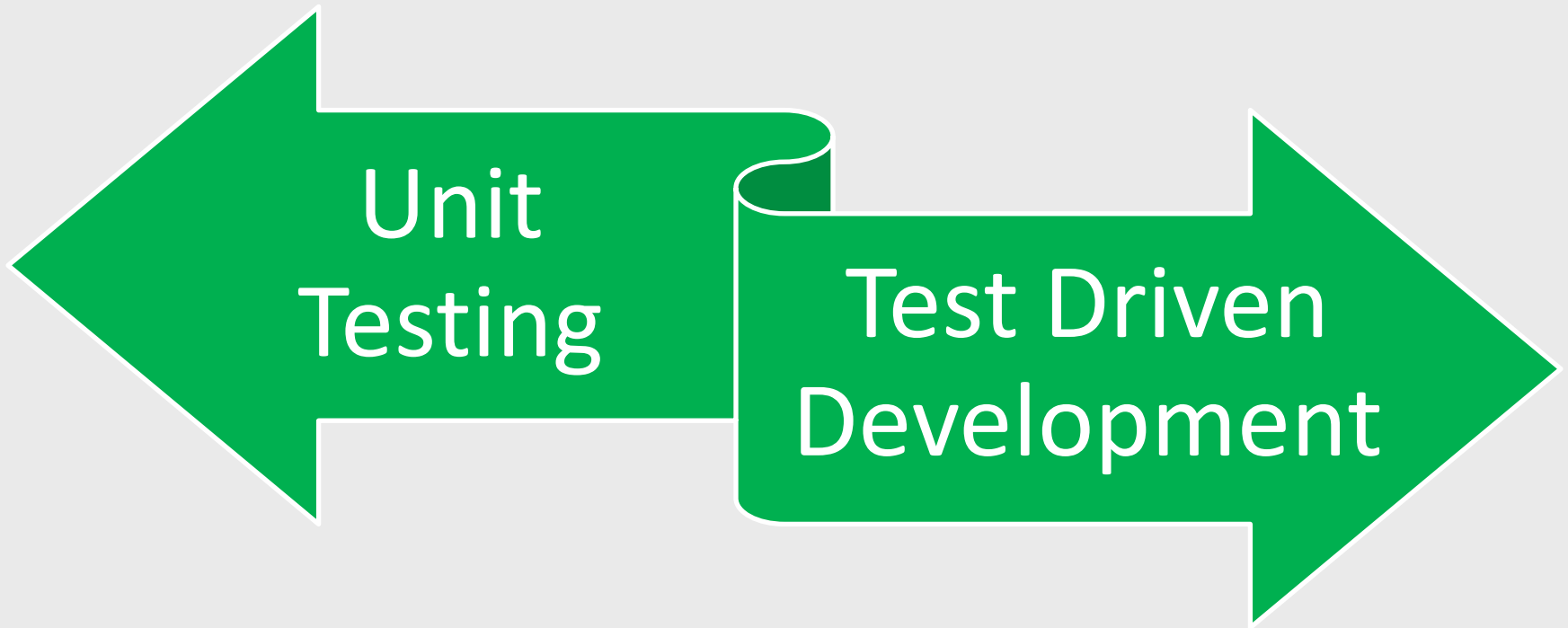
Nightly
Builds



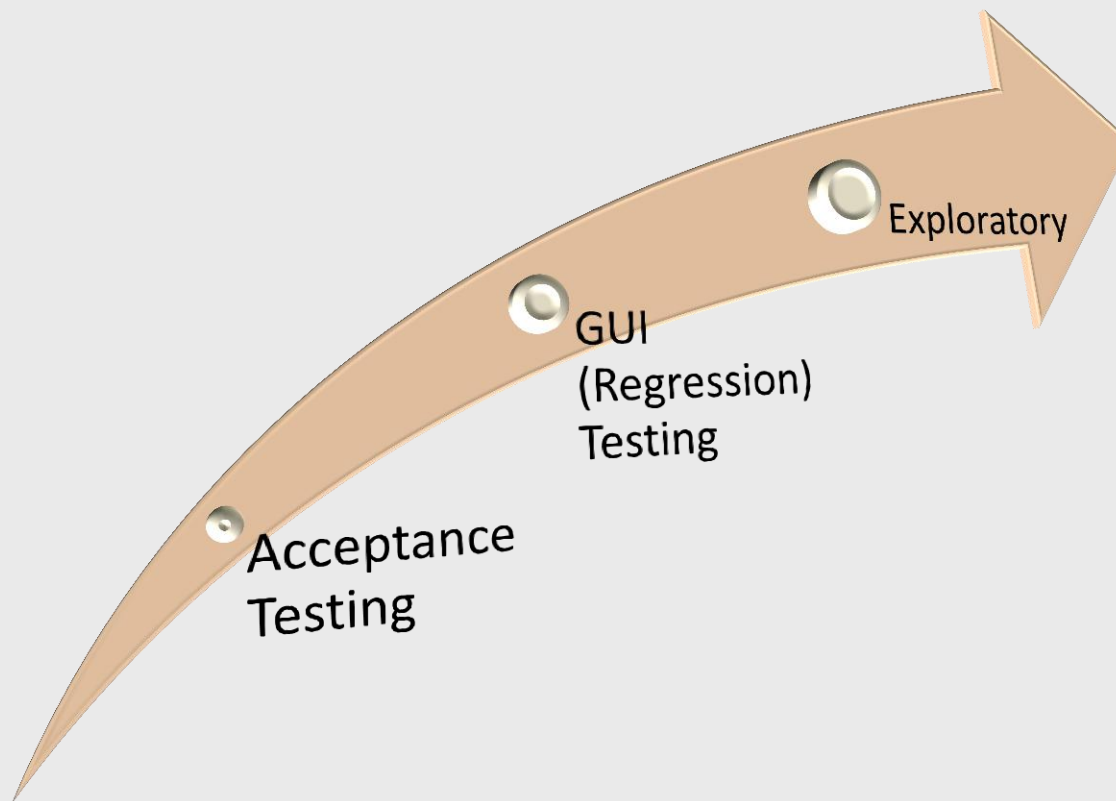
QA
Deployment



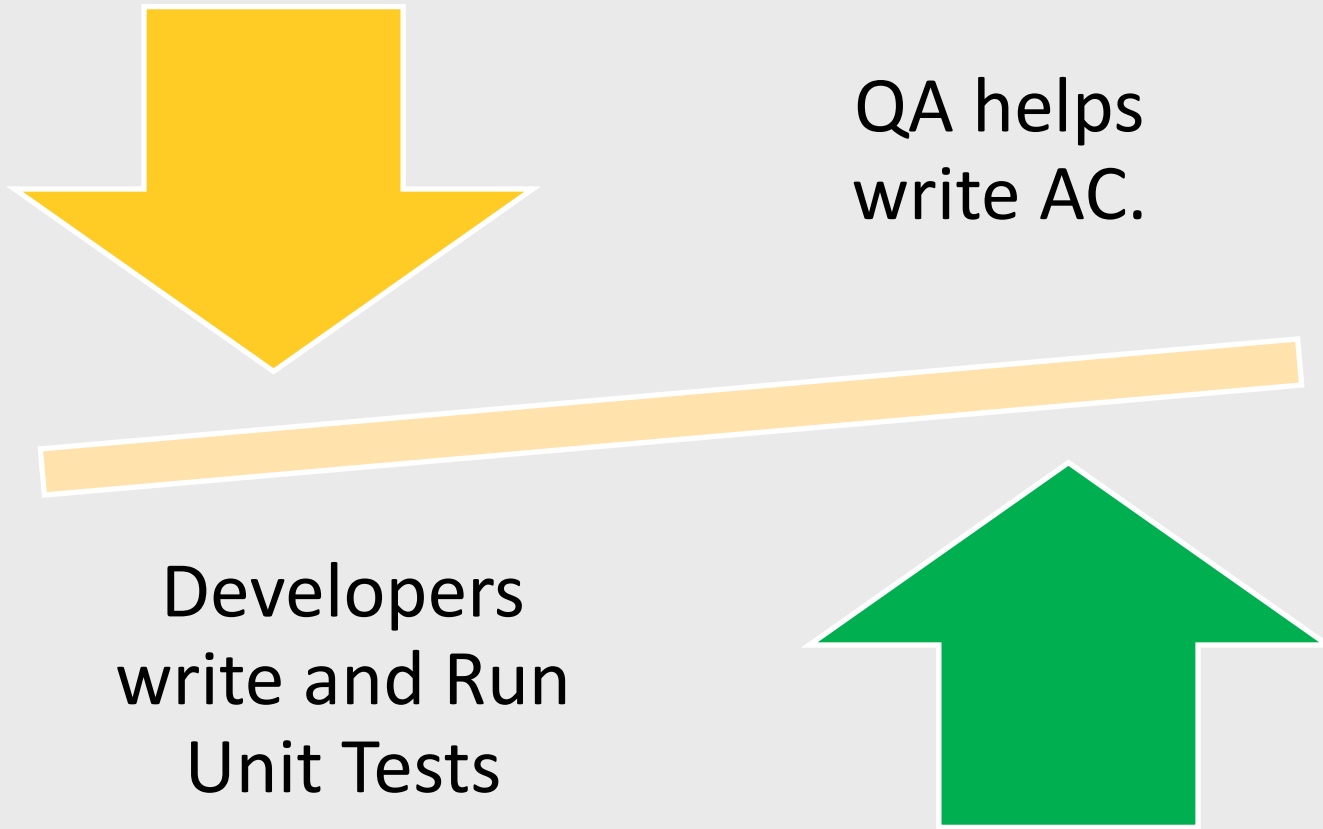
Testing Patterns



Ideal Time Spend on Tests



Acceptance Testing VS. Unit Testing



Acceptance Testing VS. Unit Testing



Developers
hook code
into AC.



Unit Tests test
one piece of
functionality



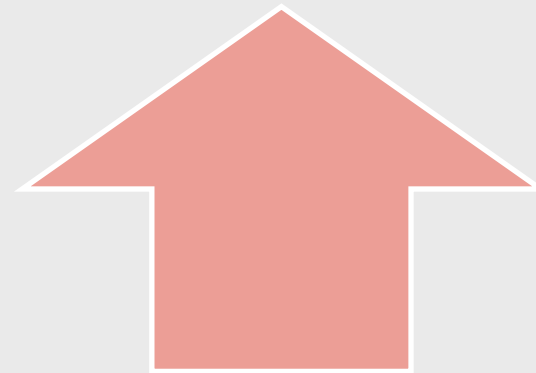
GUI Testing VS. Acceptance Testing



GUI Tests are fragile.



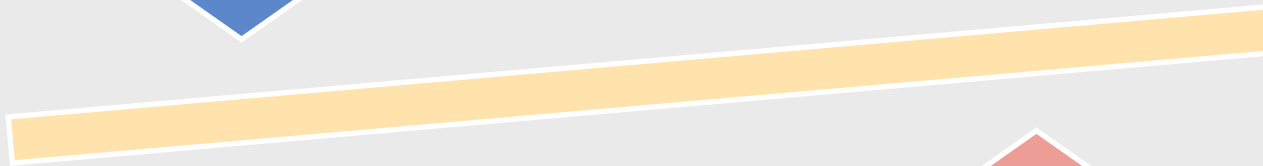
AC does not test the User Interface



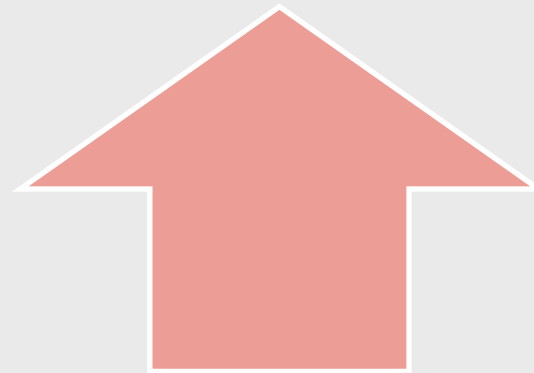
GUI Testing VS. Acceptance Testing



GUI Tests
can be
repetitive.



AC tests
should be
repetitive



DEMO

Eric's Bio

- Eric Landes has been involved with the IT industry for close to 20 years. He is currently a Solution Architect with AgileThought. He has been using Agile methods for the past 6 years, in a Team Lead/Project Manager capacity. He has presented on Kanban, automated acceptance tests, and other agile topics at different agile conferences, and user group meetings. Eric has a CSM and is a Microsoft MVP. For more information, check out his web site, <http://ericlandes.com>