CONTINUOUS DELIVERY: *visualized*

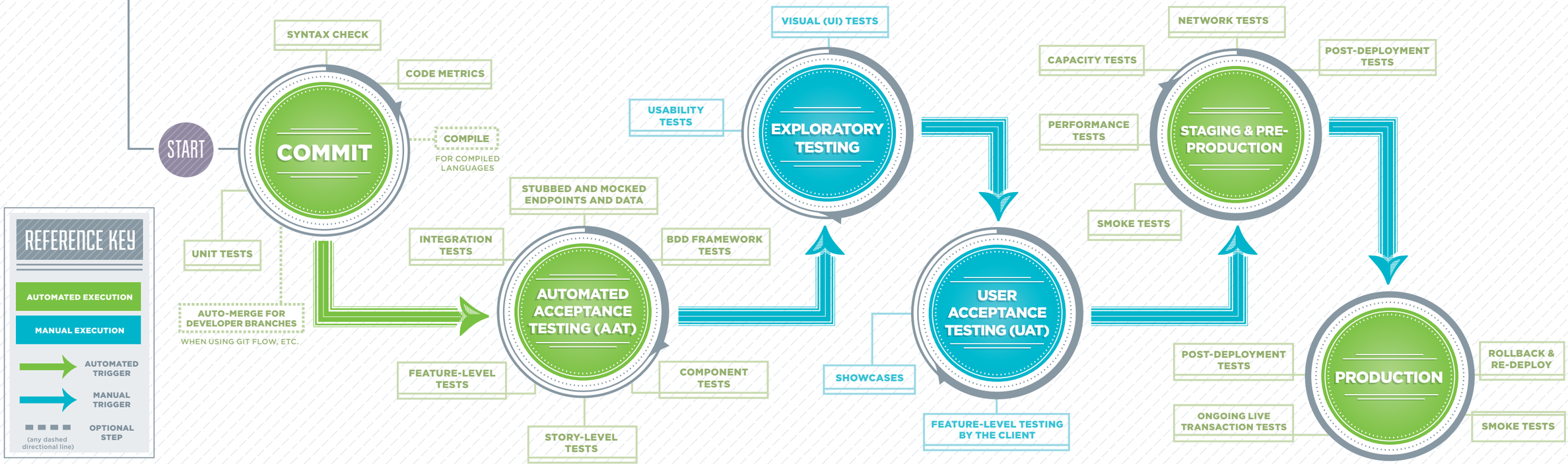
Continuous Delivery advocates the creation of deployment pipelines, which are illustrated below. The first is a long, linear diagram with all of the possible steps, and below that are two common deployment pipelines with parallel- running steps. The parallel (wide) pipelines allow teams to deploy to production sooner or to wait for test results before deploying.

- Any long-running step, such as UAT, Pre-Production testing, or Exploratory Testing, can happen even after the change has already been deployed to Production.
- If significant issues are found in any long-running step, and the change has not been deployed to Production, the team should manually halt the pipeline.
- If significant issues are found in any long-running step, and the change has already been deployed to Production, the team should rollback Production to the last working release.

Diagrams are based on Jez Humble's diagrams from the Continuous Delivery blog (http://continuousdelivery.com/2010/09/deployment-pipeline-anti-patterns)

Special thanks to Matthew Skelton for helping build these diagrams.

DZone RESEARCH



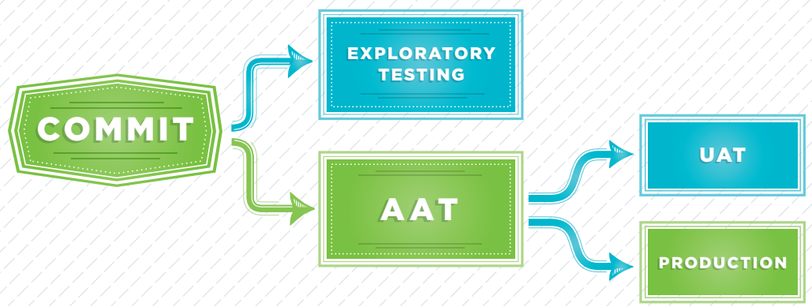
REFERENCE KEY

- AUTOMATED EXECUTION
- MANUAL EXECUTION
- AUTOMATED TRIGGER
- MANUAL TRIGGER
- OPTIONAL STEP (any dashed directional line)

COMMON DEPLOYMENT PIPELINE #1

CSS CHANGE IN THE UI

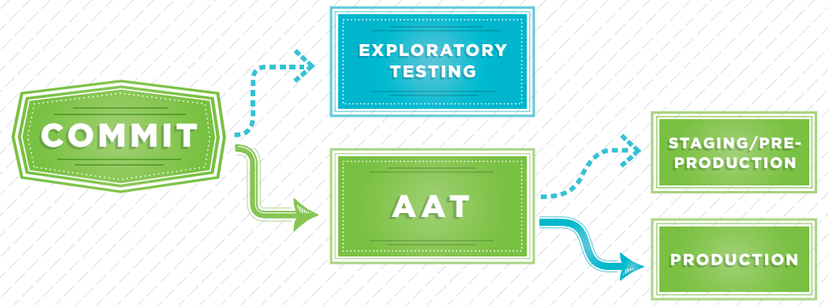
A minor CSS change that could adversely impact a user's ability to use a low-traffic area of the site



COMMON DEPLOYMENT PIPELINE #2

CHANGE IN TRANSACTION PROCESSING ENGINE

A change in the core processing engine with a low chance of affecting performance



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