ANZTB
ANZ TESTING BOARD

ISTQB
International Software Testing Qualifications Board

Google Test Automation Conference 2015 and Innovative Development

Igor Goulko

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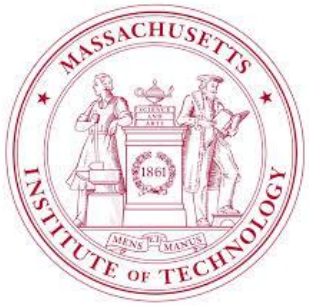
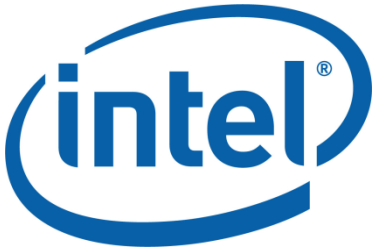


GTAC 2015 and Innovative Development

STANFORD
UNIVERSITY

UBER



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Agenda

1. Innovation in Test Automation
2. TOP 5 Talks
3. Efficiency and measurements
4. Experiments and Learning
5. Success and Failure
6. Start Up vs Corporation

Innovation in Test Automations

General Direction and Best Practice

- Component Testing
- Mock everything (LinkedIn, Google and others)
- Production Data Testing
- Production Monitoring
- More advanced testing tools
- Custom tools

Top 5 talks

- Testing Tube (Jurgen Allgayer)
  - Unified dev/test environment
  - Everyone writes tests
  - Dev=integration
  - No surprises = Borg
  - Daily pushes
  - 200 services

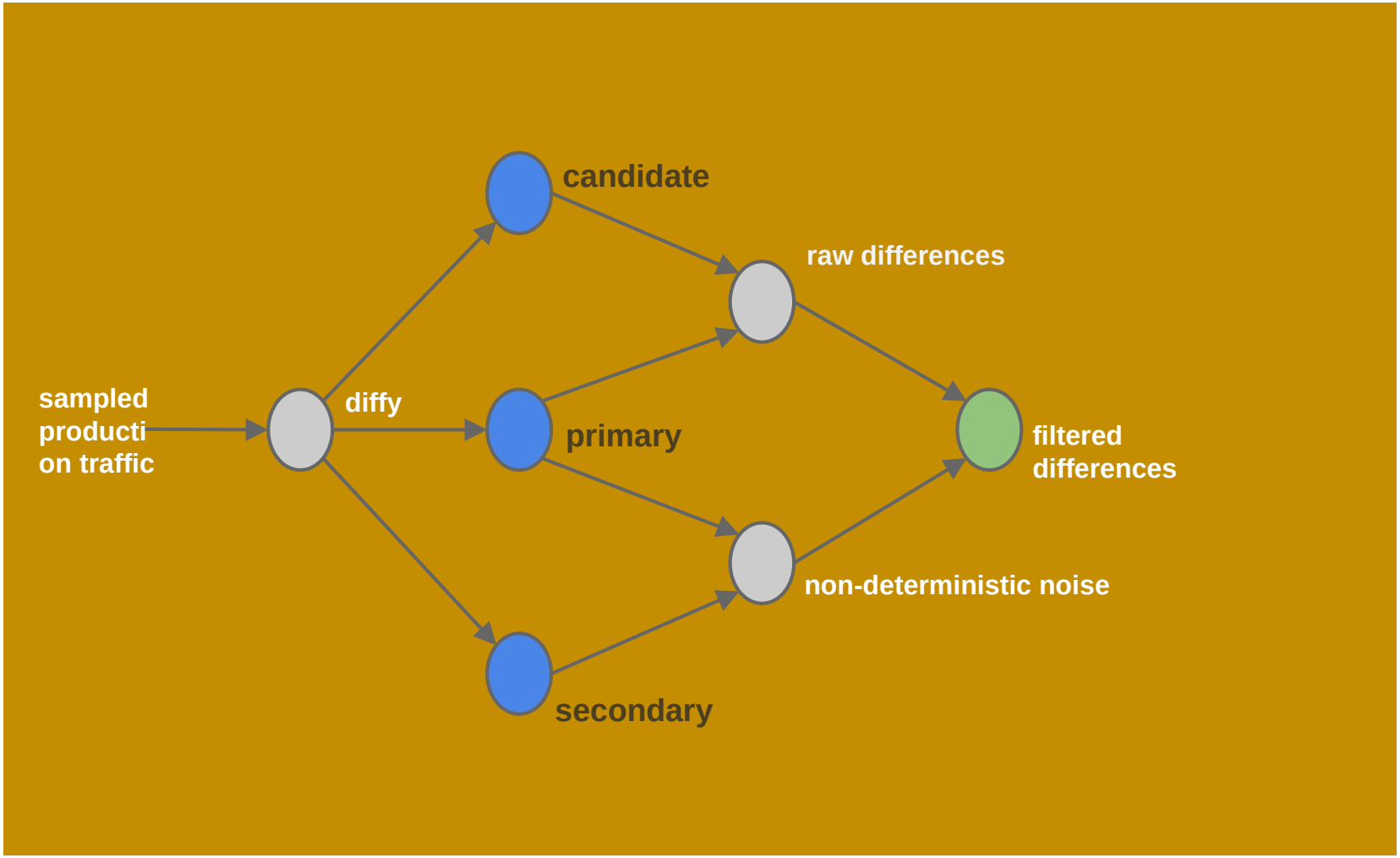
- Large-Scale Automated Visual Testing (Adam Carmi, Applitools)
  - Very sophisticated image comparison
  - Cross browsers and device testing
  - Monitoring dynamic applications
  - Automate a maintenance

Hands Off Regression Testing

twitter

- Continuous deploy
- Transformation from Huge Monolithic code to micro services
- Unit tests and Component tests
- 5 Code Paths for 6 Methods ~ 15K TC
- Diffy uses production traffic for regression tests
- Candidate (new), Primary and Secondary deployments

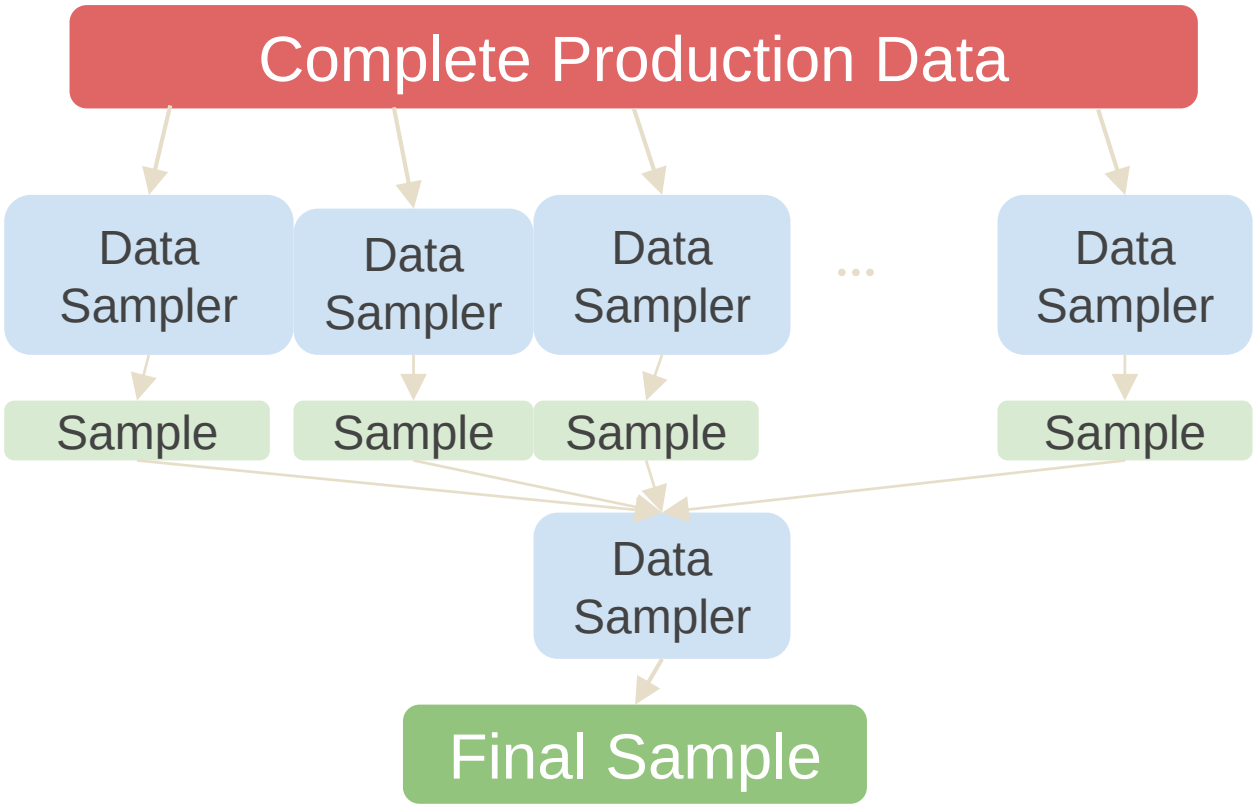
Diffy Topology



Statistical Data Sampling

Celal Ziftci and Ben Greenberg

- Smart Production Sample Data (1.6B->78K)
- 14 hours -> 2 mins and it runs for EVERY single submit



Your Tests Aren't Flaky (Alister Scott, WorldPress)

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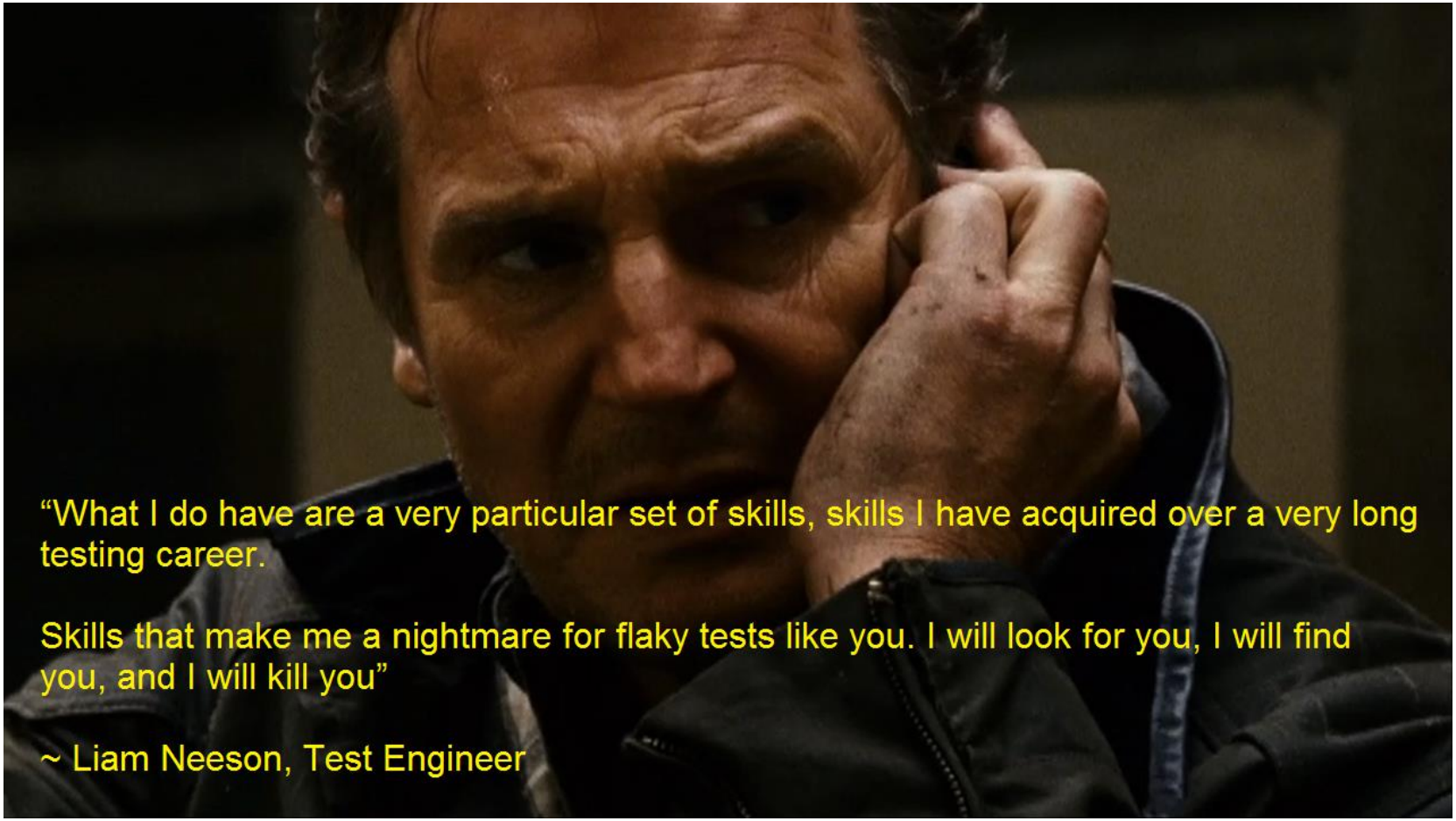


Success and Failure

- Failure is part of our process
- Success is our Goal
- Ratio
- ROI

Efficiency and measurements

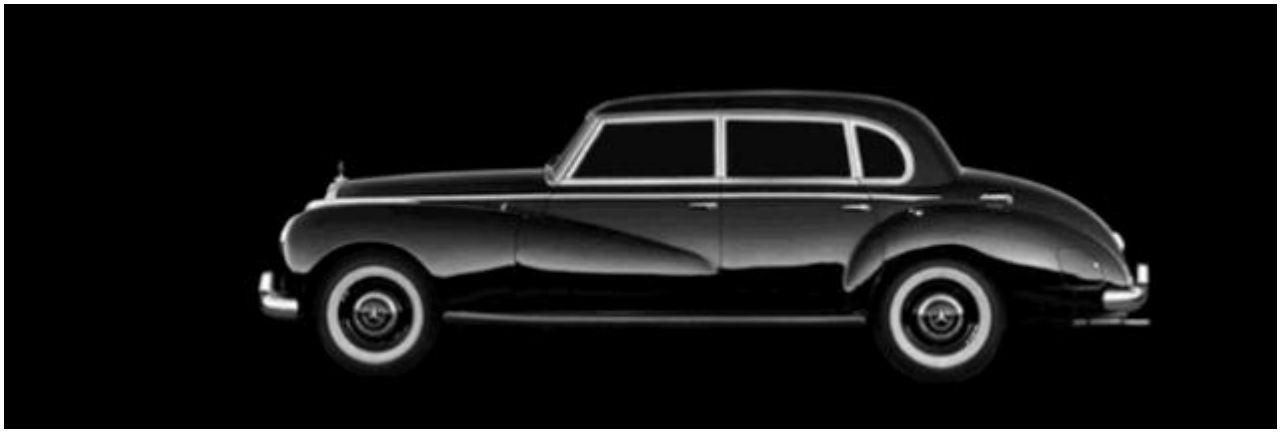
- Time, quality, price
- Productivity, efficiency and product price

Efficiency and measurements

- Team's Open space vs Offshore
- Informal meetings and discussions

Efficiency and measurements

- Greenfield project vs Transformation
- Transformation has to became BAU



Start Up vs Corporation

- Legacy code and Monsters feeding
- Try, learn, implement, start over
- Knowledge, Skills, People, Culture
- Processes, Technologies, Innovations

Q&A

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