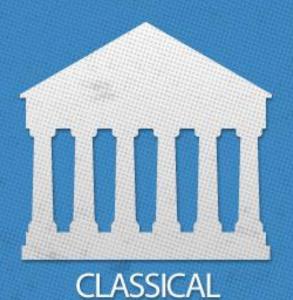
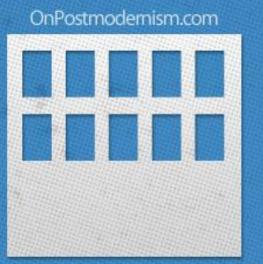
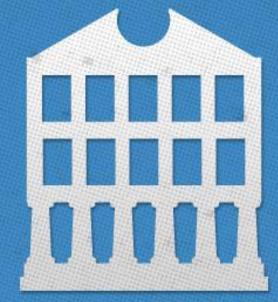


POSTMODERN ARCHITECTURE



MODERN





POSTMODERN



Postmodern Art...

"...collage, simplification, appropriation, performance art, the recycling of past styles and themes in a modern-day context, as well as the break-up of the barrier between fine and high arts and low art and popular culture."

<u>Wikipedia</u>





Software Engineering Today

Platform

Data, AI & Microservices

Complex Client Apps













Mix and Match





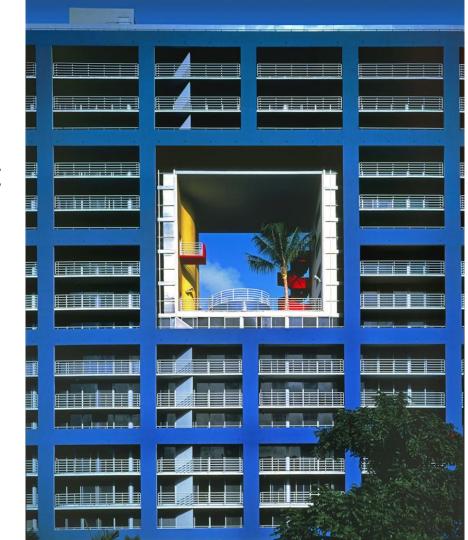
Test Organization

Testers Report to "Development Leaders"

No Central Organization

No Shared Labs / Resources

Ad-hoc collaboration





Testing vs Verification Ratio

TvV Ratio

Average

Complexity, Danger, Speed

Complexity

1: Windows OS

100: Hello World

Danger

1: Can Hurt People

100: Flappy Bird

Speed

1: Ships Yearly

100: Ships Continuously



Testing vs. Verification Effort Ratio

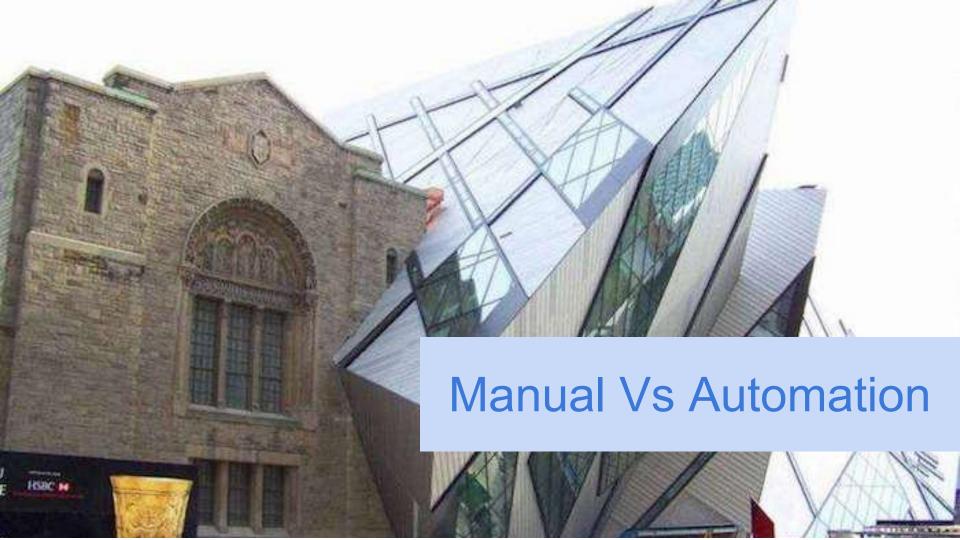


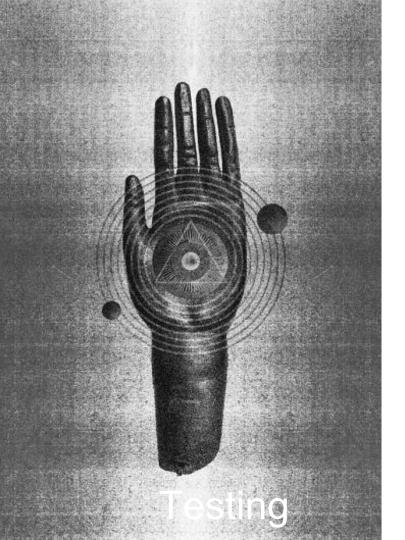
Agile/Chaos?

Testers operate outside of agile/lean flow

Continuous Risk Analysis and Mitigation







Manual

Regular Sanity Checks: 20%

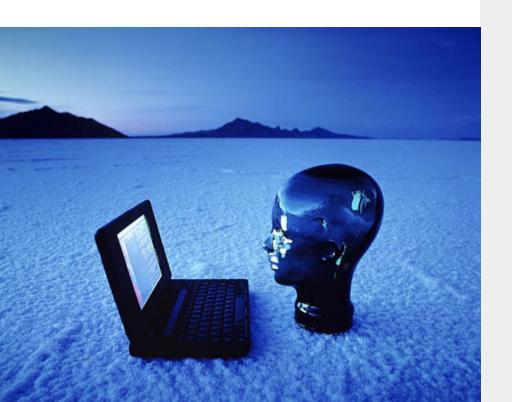
Regression Testing: 20%

Exploratory Testing: 30%

Thinking/Learning: 30%

Only report to team on Risk and Blocking issues.

Automation



Only by 'real' programmers.

Never BDD, Cucumber, Model-based, Image-based, Record/Replay.

Few Regression Tests

"Automation is not Testing": FALSE

Generative

No New Frameworks

No Testability APIs

Inside Out

Inside-Out Testing



3

https://mail.google.com/mail/u/0/#inbox?test=mark_as_unread

<script src="mark_as_unread_tests.js"</script>



Inside-Out Testing





https://mail.google.com/mail/u/0/#inbox?test=mark_as_unread

Full Access to Entire DOM

No Framework Needed

Secure Access Server APIs/Data

Can run almost anywhere

Easy to Execute / Distribute / Debug

Any Dev can debug



Instrumentation





Add simple instrumentation to all code.

#times executed

Check counts after tests and monitor production

"Back button click rates went up..something wrong!"

Microservices / APIs





Consumers of MS/APIs add tests for their dependencies

Best if all in same 'source control'

Continuous Monitoring

Unsupervised Learning to Look for Problems en masse

Best if called from client machine (not test machines)

Chromium Code Reviews

Issues Search

Open Issues | Closed Issues | All Issues | Sign in with your Google Account to create issues and add comments

Issue 3643002: Implemnts the commands in webdriver to preform searching of elements on a page. (Closed)



8 years, 3 months ago by Joe

Modified:

7 years, 8 months ago

Reviewers:

Peter Kasting, mal, John Grabowski, AmolKher, shs, anantha, Paweł Hajdan Jr.

chromium-reviews, Paweł Hajdan Jr.

Base URL:

http://src.chromium.org/git/chromium.git

Visibility:

Public.

▼ Description

Implements the commands in webdriver to preform searching of elements on a page.
/session/:sessionId/timeouts/implicit_wait
/session/:sessionId/element

/session/:sessionId/elements /session/:sessionId/element/:id/element

/session/:sessionId/element/:id/element
/session/:sessionId/element/:id/elements

BUG=none

TEST=webdriver_remote_tests.py

Committed: http://src.chromium.org/viewvc/chrome?view=rev&revision=70107

Patch Set 1

Patch Set 2 : update

Total comments: 7

▶ Patch Set 3 : update

Total comments: 11

▶ Patch Set 4 : fixed some code review issues

▶ Patch Set 5 : update

▼ Patch Set 6 : fix for windows build

Creat	Created: 8 years, 1 month ago Download [raw] [tar.b						
	Unified diffs	Side-by-side diffs	Delta from patch set	Stats (+362 lines, -18 lines)		Patch	
▶ M	chrome/chrome_tests.gypi	View	12345	1 chunk	+4 lines, -0 lines	0 comments	Download
Α	chrome/test/webdriver/commands/find_element_commands.h	View	123	1 chunk	+74 lines, -0 lines	0 comments	Download
Α	chrome/test/webdriver/commands/find_element_commands.cc	View	1234	1 chunk	+111 lines, -0 lines	0 comments	Download
Α	chrome/test/webdriver/commands/implicit_wait_command.h	View	12345	1 chunk	+42 lines, -0 lines	0 comments	Download
Α	chrome/test/webdriver/commands/implicit_wait_command.cc	View	12345	1 chunk	+45 lines, -0 lines	0 comments	Download
M	chrome/test/webdriver/server.cc	View	12345	4 chunks	+13 lines, -4 lines	0 comments	Download
M	chrome/test/webdriver/webdriver_remote_tests.py	View	1234	4 chunks	+60 lines, -14 lines	0 comments	Download
M	third_party/webdriver/py/selenium/remote/webdriver/WebDriver.py	View	1234	1 chunk	+11 lines, -0 lines	0 comments	Download
М	third_party/webdriver/py/selenium/remote/webdriver/command.py	View	1234	1 chunk	+1 line, -0 lines	0 comments	Download
M	third_party/webdriver/py/selenium/remote/webdriver/remote_connection.py	View	1234	1 chunk	+1 line, -0 lines	0 comments	Download

0

Reporting





No Elaborate Dashboards

As little data as possible

Always ready to assess readiness

Test Counts / % Pass Meaningless

"Any reason we shouldn't release?"



Quantify Quality

Acceptable Crash Rate

Data Quality

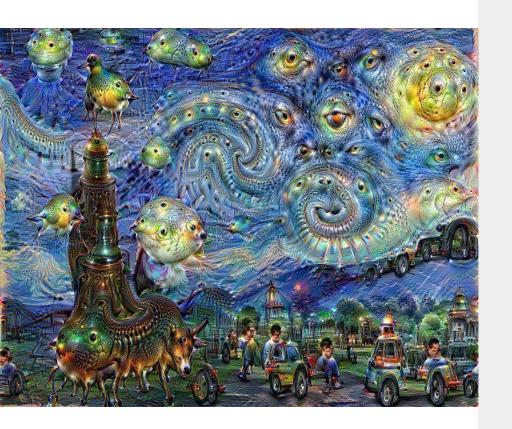
Relevance Measures

Quantify Qualitative Measures

Don't Optimize for Business Outcome

Al





Drives, Plays DOTA, Paints, Designs Furniture and Cities, Makes Phone Calls, etc.

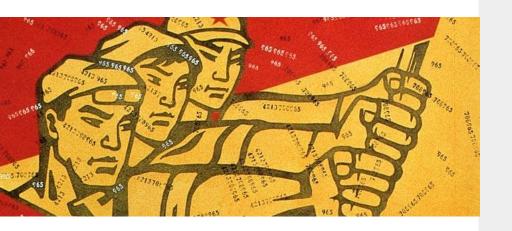
All of Google: Al-First

Can Test Itself (Auto-ML)

Yes, it will soon do most Software Testing

Most testing will soon be centralized, and better.

Vendor





Vendor out everything you can

If Vendor can do it, low-value

Vendor can do it at scale

90% of Testing is a Cost Center

10% is more difficult than engineering and design--focus on that.

Only 10% is valued / Strategic



Al Test Cake

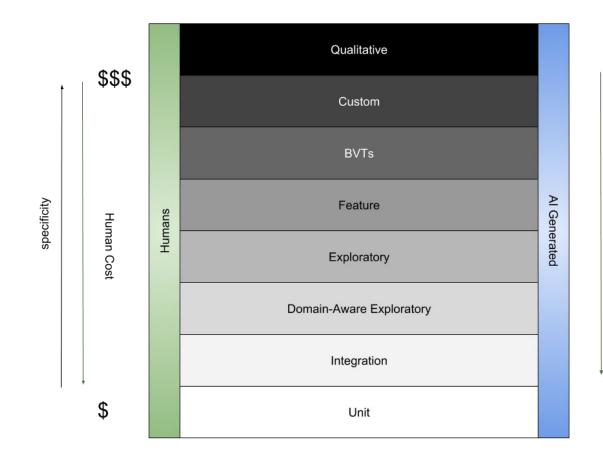
Pyramid -> Cake

Reuse and Scale have dramatic impact

Inverts cost gradient as more abstract things are more easily automated.



Postmodern Testing Cake





\$\$\$

Al Cost

Other Don'ts





Code Coverage

Static Analysis

Test Selection

Call Testers 'Developers'

Hire "Good" Testers.

Leave the Profession

Layoff all your Testers

Google Still Hiring Manual Testers!

Post-postmodernism

From Wikipedia, the free encyclopedia

Find a Mobile App

walmart

wal



Products Test Apps Compare Apps Learn

AL

Machine Learning **Test Automation**

Company

About Us Careers

Events

Contact Us



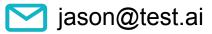




Let's Connect!















Architectural Photos from:

http://www.archiecho.com/item/54989_70-breathtakingly-beautiful-examples-of-postmodern-architecture

Hand: https://www.designspiration.net/save/28063818931/

Head and Computer:

https://www.gettyimages.co.nz/detail/photo/post-modern-landscape-high-res-stock-photography/521753650

Residence, Stairway:

 $\frac{https://www.houzz.com.au/photo/175622-overmyer-residence-modern-exterior-san-francisc}{\underline{o}}$

Medussa:

http://reynoldahouse.org/exhibitions/detail/off-the-wall-postmodern-art-at-reynolda-0

Workers: http://www.hatjecantz.de/postmodernism-5051-1.html