40 of the BEST*, FREE Software Testing Tools** in 60 Minutes!

By

Jess Lancaster

TechSmith®

Twitter @jesslancaster
LinkedIn jesslancaster

TechSmith®

Snagit

Image and Video Screen Capture

Snagit lets you create images and videos to provide feedback, create clear documentation, and show others exactly what you see.

Camtasia

Screen Recording and Video Editing

Powerful, yet easy-to-use, Camtasia helps you create professional videos without having to be a video pro.

TechSmith Relay

Enterprise-wide Video Solution

Let anyone in your organization easily record lectures, meetings, or training sessions from virtually anywhere.

Jing

Share Ideas Instantly

A simple, free way to start sharing images and short videos of your computer screen and easily share them on the web.

Screencast.com

Video and Content Hosting

Easily store and share the great content you create using TechSmith products with Screencast.com.

Morae

User Experience and Market Research

From focus groups to usability studies, Morae gives you insight into your users' experiences by providing powerful data.

*BEST = MY JUDGMENT AT THIS CURRENT MOMENT IN TIME BASED ON MY RESEARCH, EXPERIENCE, AND RECOMMENDATIONS FROM OTHER TESTERS I DEEPLY RESPECT

**TOOL = MERRIAM-WEBSTER: SOMETHING (SUCH AS AN INSTRUMENT OR APPARATUS) USED IN PERFORMING AN OPERATION OR NECESSARY IN THE PRACTICE OF A VOCATION OR PROFESSION

STP SOFTWARE TEST PROFESSIONALS   @jessclancaster

WHAT DOES 40 IN 60 LOOK LIKE?

Intro – 5 minutes

My Best Tools – 35 minutes

Your Best Tool Share Outs – 15 minutes

Questions – 5 minutes

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SO, JESS, HOW CAN YOU COVER 40 IN 60?

Who: <What kind of tester need does it fulfill? What purpose does it serve?>

What: <What can I do with it?>

Where: <address please http://>

Oh, and be on the lookout for Tim the Toolman!

These tools are my Best of the Best!

Nailed It.

WE NEED YOUR HELP! SHARE YOUR FREE TOOL RECOMMENDATION LIKE THIS IN THE WEBINAR COMMENTS

Tool Name

Who: <What kind of tester need does it fulfill? What purpose does it serve?>

What: <What can I do with it?>

Where: <address please http://>

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PREPARE THE TIMER!

CATEGORY: THINKING TOOLS
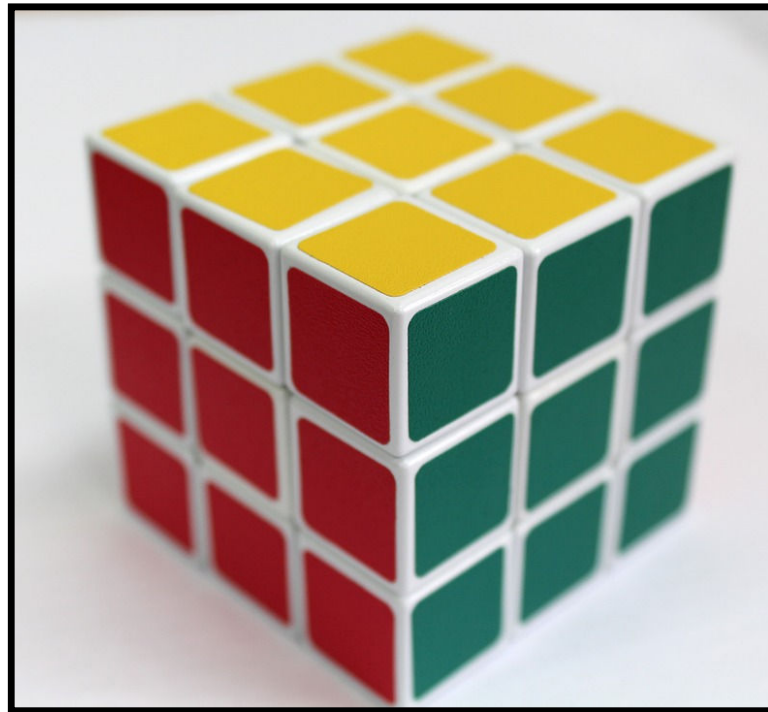
#1 YOUR BRAIN

Who: Any Tester wanting to improve their testing effectiveness

What: Upgrade some thinking today

Experience is a fabulous teacher. Use the gray matter between your ears to solve tough problems in testing, try new things, follow your tester's intuition when exploring software, and innovate on your processes – making them faster, more reliable, and with a higher degree of quality.

Where: Inside your head.

#2 MINDMUP

Who: Testers that want to visually design tests or organize test ideas in an easy to understand format

What: A cloud-based mind mapping tool running in Chrome, complete with collaboration features

Where: https://www.mindmup.com/
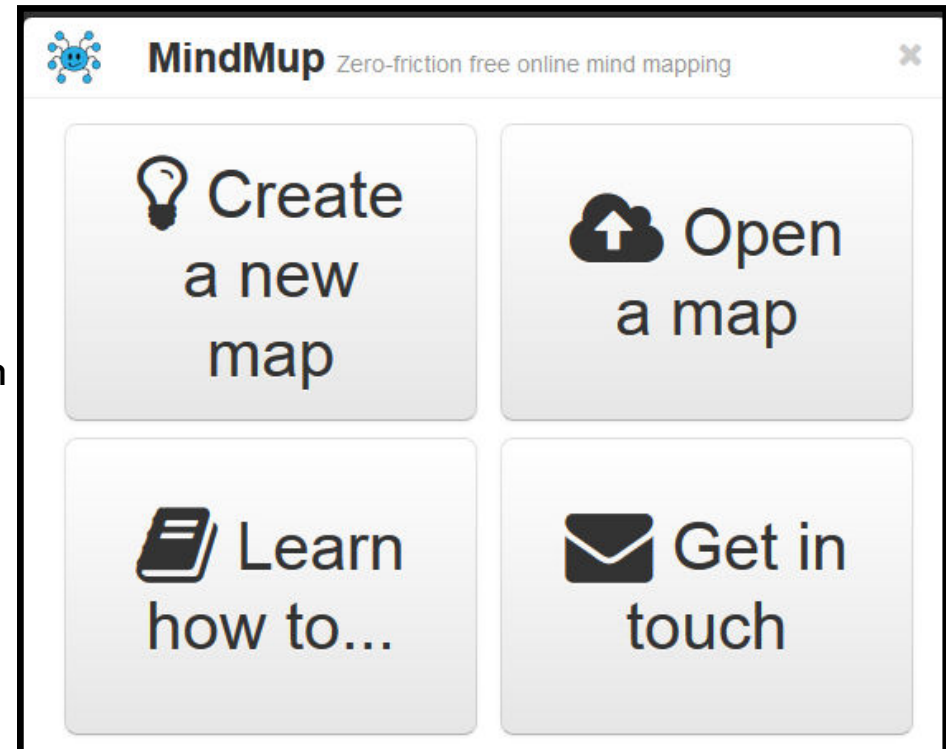
#3 BLACK BOX SOFTWARE TESTING COURSES

Who: Any tester wanting to grow their testing skills

What: Courses to build a solid testing skillset – Foundations of Software Testing, Bug Advocacy, and Test Design

Where: http://testingeducation.org

Testing Education   ABOUT THE LAB   COURSE NOTES   HIVAT   LAB ARTICLES

About the Lab

Our mission is to: "Create effective, grounded, timely materials to support the teaching and self-study of software testing, software reliability, and quality-related software metrics."

We are currently (September 2012) working on several projects:

- **BBST ® (the Black Box Software Testing series)**. This series of courses introduces students to testing:
  - Foundations of Software Testing
  - Bug Advocacy: Effective Bug Investigation & Reporting
  - Test Design: A Survey of Black Box Software Testing Techniques
  - The BBST Instructors Course, for people who have taken BBST and want to teach it

NOTE: BBST is a registered trademark of Kaner, Fiedler & Associates, LLC.

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#4 THE HEURISTIC TEST STRATEGY MODEL
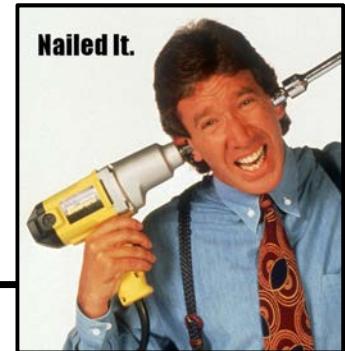
Who: Every tester must consider this model when assessing the testing needs of an application

What: If your looking for a model by which to plan a test strategy project, design tests, explore the software, and assess quality. Oh, and provide valuable feedback and find a ton of bugs…

Where: http://www.satisfice.com/tools/htsm.pdf

Nailed It.

Designed by James Bach
james@satisfice.com
www.satisfice.com
Copyright 1996-2013, Satisfice, Inc.

Heuristic Test Strategy Model

Project Environment

Test Techniques

Quality Criteria

Product Elements

Perceived Quality

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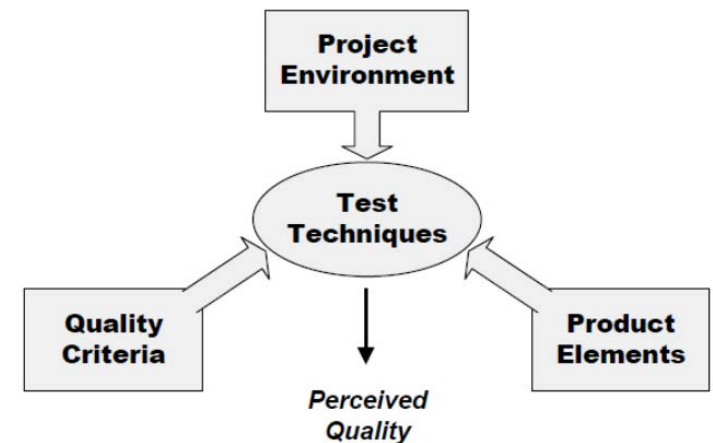
CATEGORY: PRODUCTIVITY TOOLS

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#5 GOOGLE HANGOUTS

Who: Any Tester interacting with Offsite Team Members

What: Google Hangouts – video conferencing / collaborating tool

Where: https://hangouts.google.com/
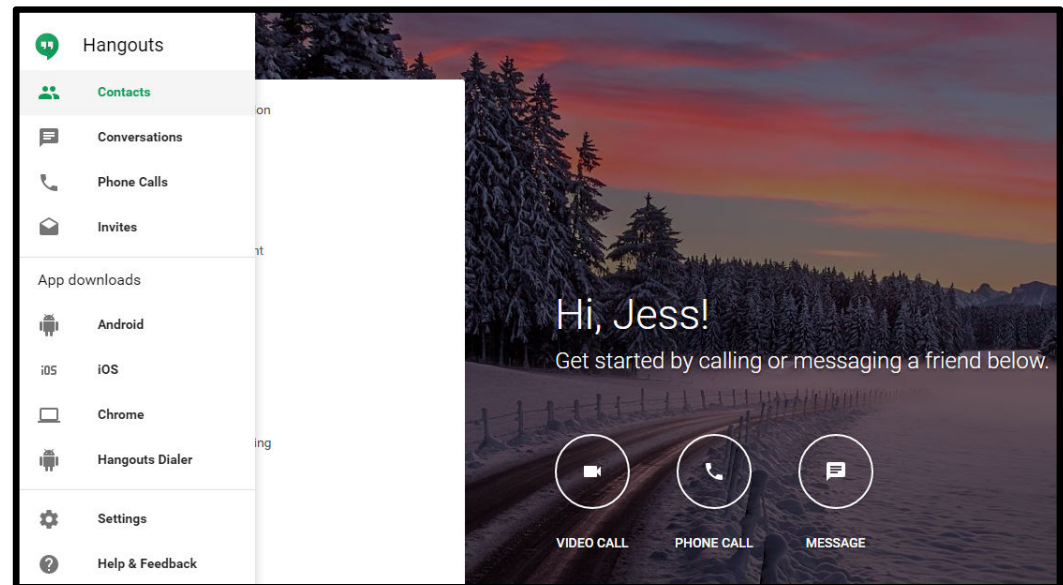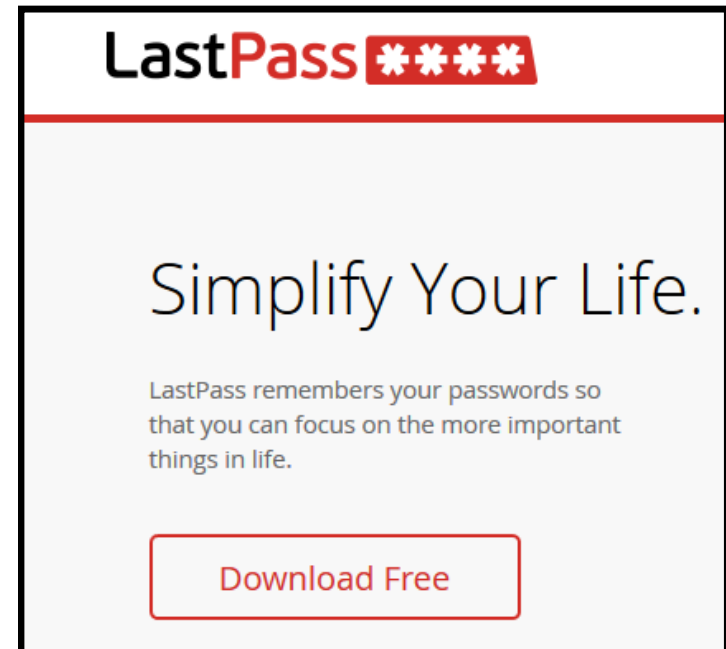
#6 LASTPASS

Who: Any Tester that doesn't want to remember every user ID and password for every stinking application and system on they access on planet earth

What: Password management – plain and simple

Where: https://lastpass.com/

#7 GENERATEDATA.COM

Who: Any Tester that needs some data, like right now!

What: It lets you quickly generate custom data in a variety of formats for use in testing software, populating databases, etc. It has a variety of export options!

Where: http://www.generatedata.com/#t1

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#8 JING

Who: Any Tester wanting to take quick and easy screenshots or short videos and effortlessly share them out

What: Image and video capture of your screen + basic edits + sharing a link from screencast.com

Where:
https://www.techsmith.com/jing.html

Nailed It.

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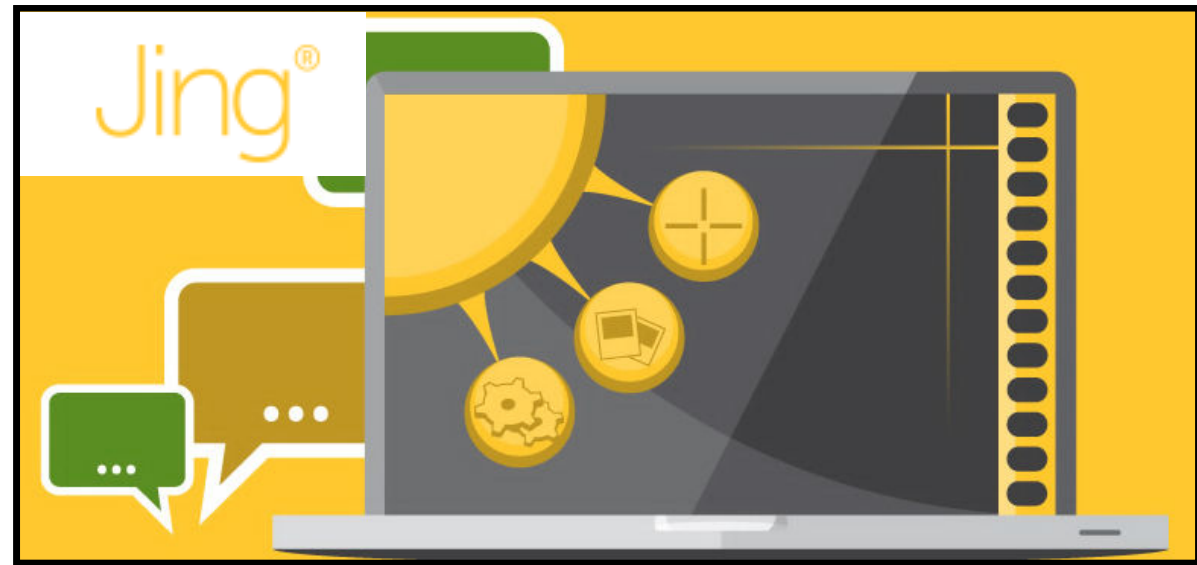
9 TOGGL

Who: Any Tester with a time tracking need

What: Time tracking that can be used for better tracking and planning

Where: http://www.toggl.com/

@jessclancaster
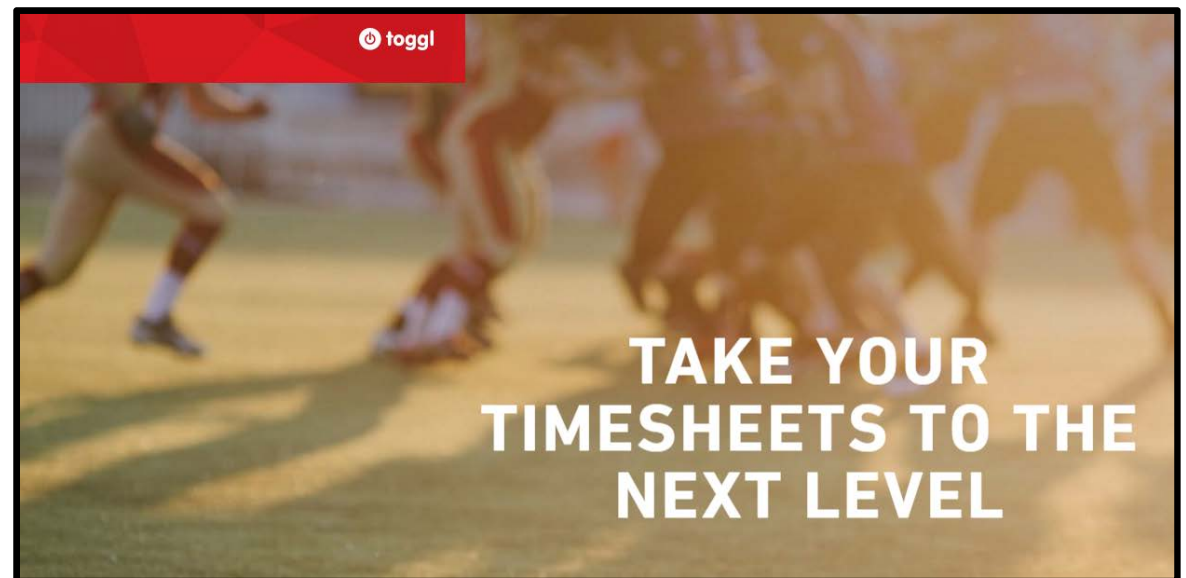
#10 GOOGLE APPS

Who: Any tester looking for document creation, sharing, and with awesome collaboration abilities!

What: Documents, Spreadsheets, Slide Presentations, and Forms for Surveys. Everyone can work on the same document at the same time!

Where:
https://apps.google.com/products/

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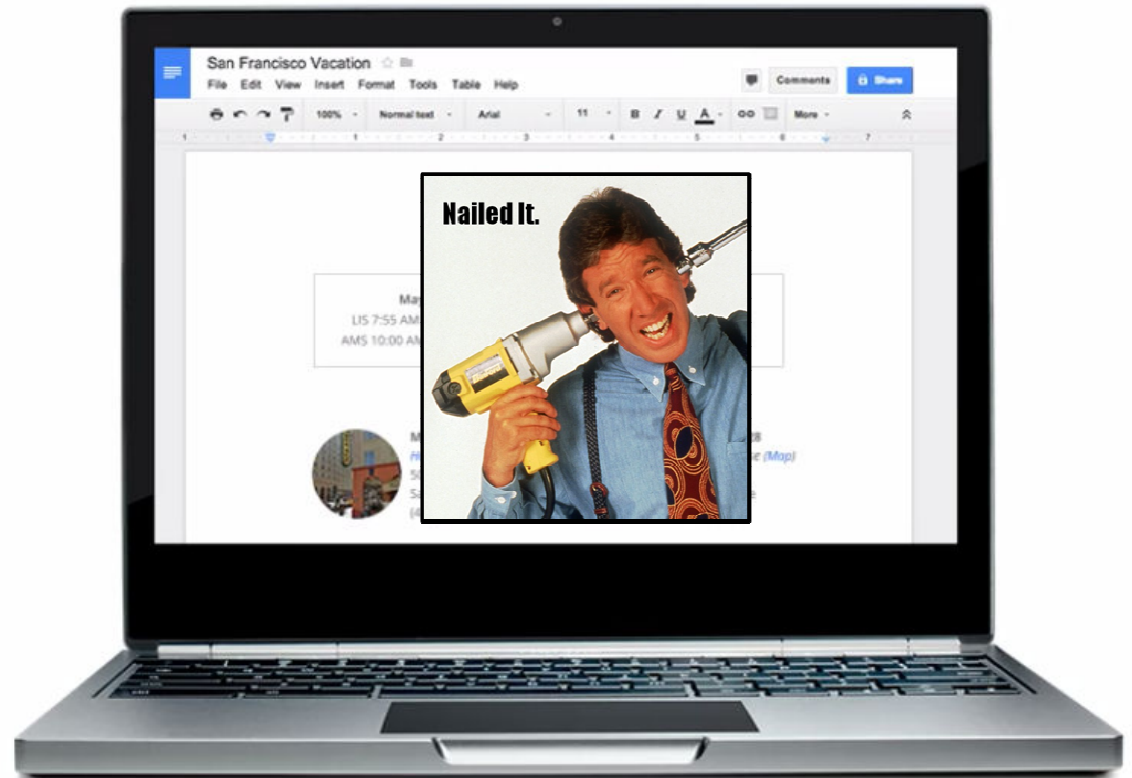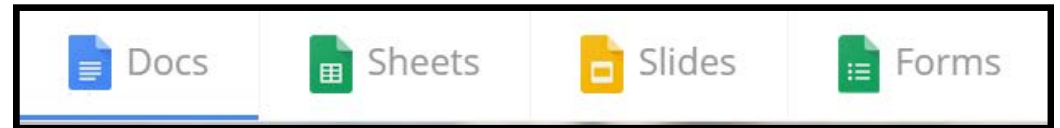
#11 TRELLO

Who: Any Tester or team who needs to organize work tasks

What: Organize your personal tasks in lists, or use the tool for project collaboration

Where: https://trello.com/

Trello is the free, flexible, and visual way to organize anything with anyone.
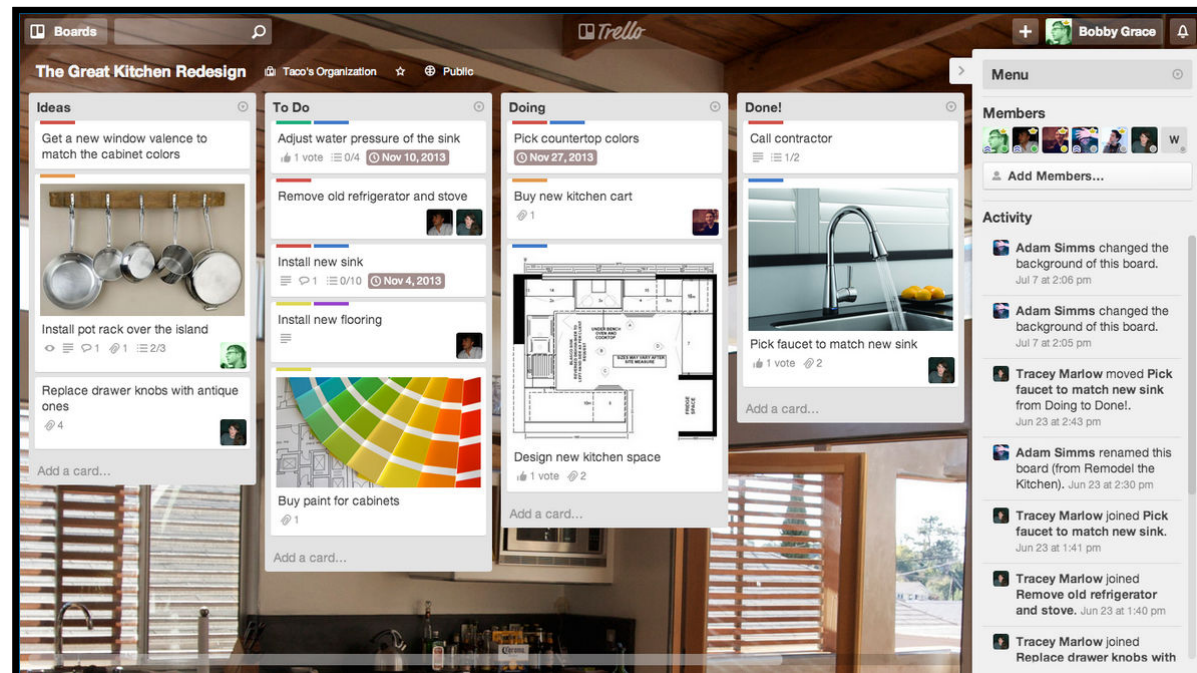
REMINDER: WE NEED YOUR HELP! SHARE YOUR FREE TOOL RECOMMENDATION LIKE THIS IN THE WEBINAR COMMENTS
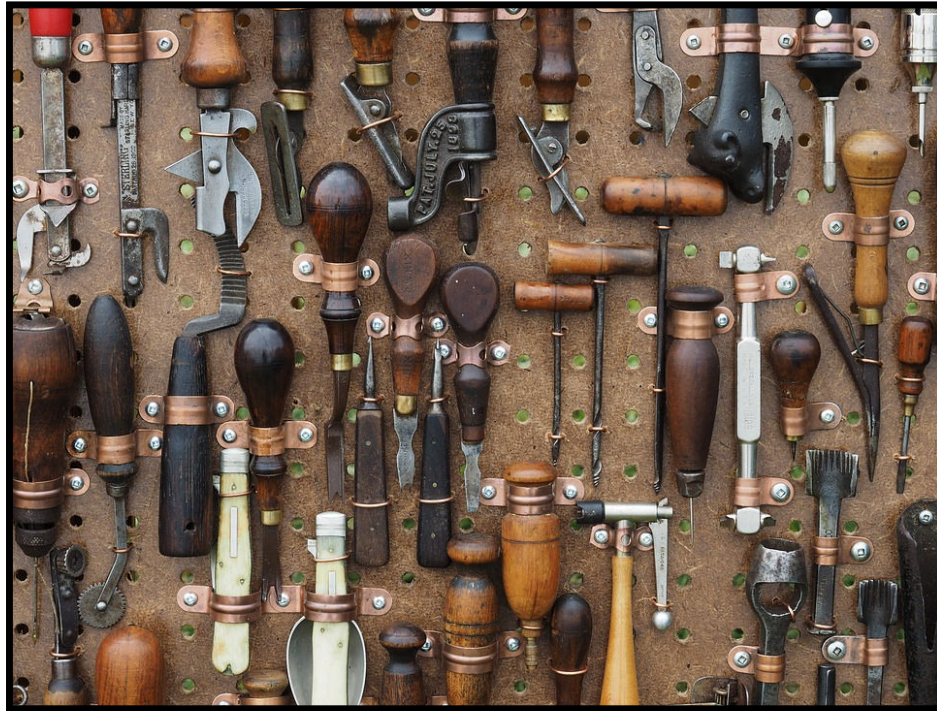
Tool Name

Who: <What kind of tester need does it fulfill? What purpose does it serve?>

What: <What can I do with it?>

Where: <address please http://>

CATEGORY: TOOLS THAT WE USE IN TESTING

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12 ITERM2 (MAC)

Who: Anyone viewing terminal windows on a Mac

What: Great for looking at logs on multiple servers

Where: https://www.iterm2.com/

iTerm2

iTerm2 is a terminal emulator for macOS that does amazing things.
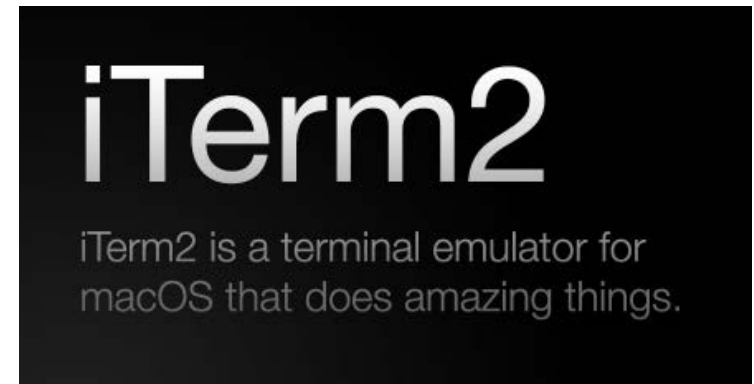
#13 NOTEPAD ++

Who: Any Tester that wants more out of a text editor

What: Notepad++ is a free source code editor and Notepad replacement that supports several languages. It runs in MS Windows environment.

Where: https://notepad-plus-plus.org/

@jessclancaster
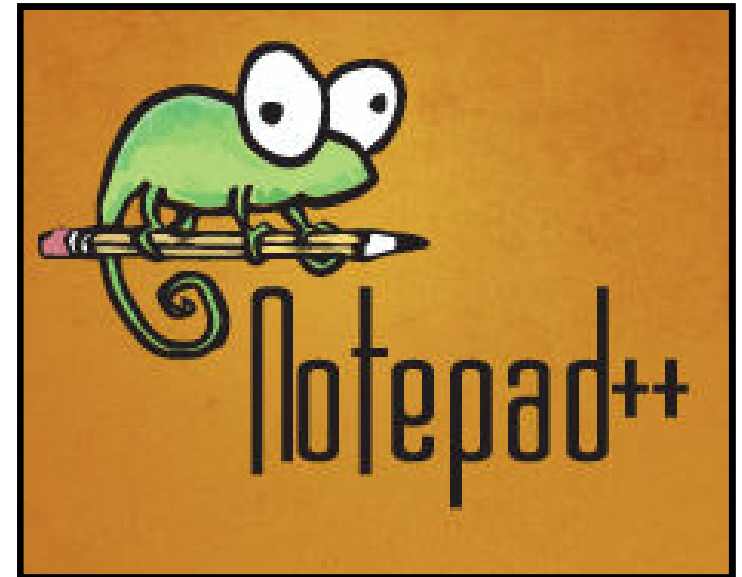
#14 RAPID REPORTER

Who: Any Tester wanting to do session-based testing with notes management

What: A note taking application that aids in the reporting process of SBTM – Session-Based Test Management. SBTM is a method for managing exploratory tests, which relies on notes taken during an uninterrupted testing session and a review of these notes afterwards.

Where: http://testing.gershon.info/reporter/
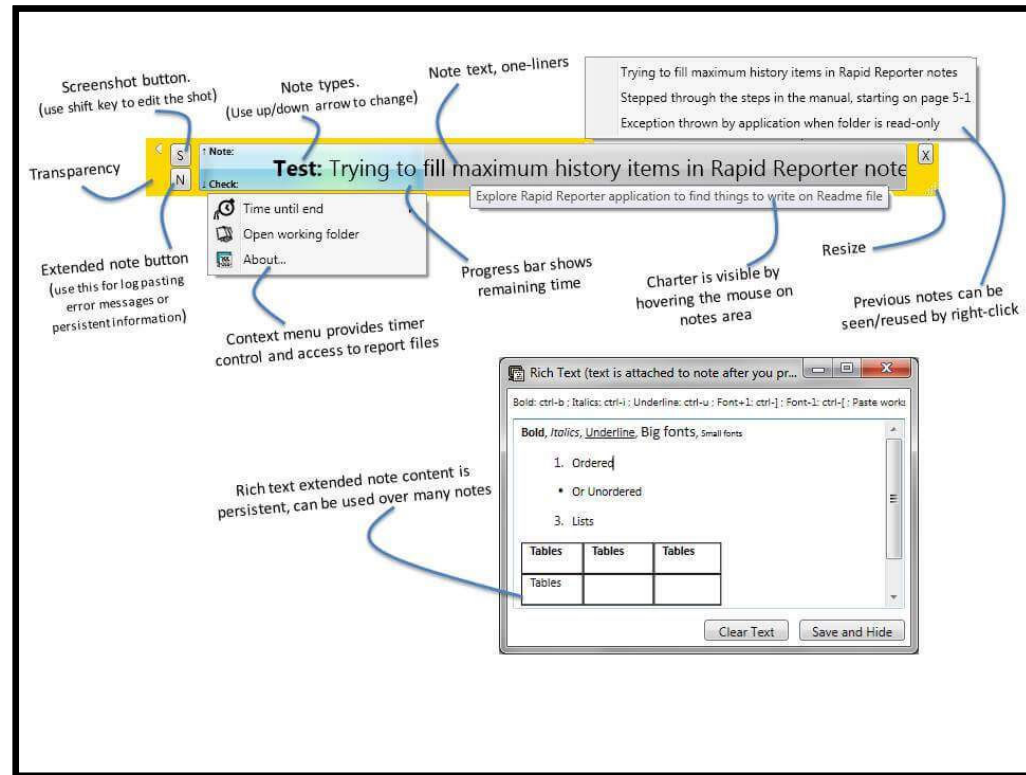
#15 FIREEYES

Who: Testers looking for Accessibility feedback on the Web

What: A Firebug Plugin that runs with Firebug. With FireEyes you can review your testing results which include details about the specific standard in violation, the capability to highlight the specific area of the page where the error is located, and inspect the issue directly in your browser. Then you can download the results as a report.

Where: http://www.deque.com/products/fireeyes/

#16 BURP SUITE

Who: Any Tester wanting to monitor network traffic or do some security testing

What: Burp Suite is an integrated platform for performing security testing of web applications. Its various tools work well together to support the entire testing process, from initial mapping and analysis of an application's attack surface, through to finding and exploiting security vulnerabilities.

Where: http://portswigger.net/burp/

17 JMETER

Who: Performance Testing Testers

What: Scaling performance tests and cross platform. The **Apache JMeter™** application is open source software, a 100% pure Java application designed to load test functional behavior and measure performance. It was originally designed for testing Web Applications but has since expanded to other test functions.

Where: http://jmeter.apache.org/

#18 CHECK MY LINKS

Who: Any Tester working with web pages

What: Quickly check all of the links on a page to see if they are working

Where:
https://chrome.google.com/webstore/category/extensions

CATEGORY: AUTOMATION TOOLS

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#19 SELENIUM WEBDRIVER AND IDE

Who: Testers wanting to drive web browsers across platforms

What: Create browser-based regression automation tests, and scale and distribute scripts across many environments – or create scripts to aid in exploratory testing

Where: http://www.seleniumhq.org/

#20

cucumber
Simple, human collaboration

Who: Any Tester that wants to eat a zero calorie vegetable…and fall in love with automation.

What: Cucumber lets software development teams describe how software should behave in plain text.

Where: https://cucumber.io/

1. Describe behaviour in plain text

```
Feature: Addition
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers

  Scenario: Add two numbers
    Given I have entered 50 into the calculator
    And I have entered 70 into the calculator
    When I press add
    Then the result should be 120 on the screen
```

2. Write a step definition in Ruby

```
Given /I have entered (.*) into the calculator/ do |n|
  calculator = Calculator.new
  calculator.push(n.to_i)
end
```

3. Run and watch it fail

```
$ cucumber features/addition.feature
Feature: Addition  # features/addition.feature
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers
  Scenario: Add two numbers               # features/additi
    Given I have entered 50 into the calculator  # features/step_d
      uninitialized constant Calculator (NameError)
      ./features/step_definitons/calculator_steps.rb:2:in `Given /
      features/addition.feature:7:in `Given I have entered 50 into
    And I have entered 70 into the calculator    # features/step_d
    When I press add                             # features/additi
    Then the result should be 120 on the screen  # features/additi
```

4. Write code to make the step pass

```
class Calculator
  def push(n)
    @args ||= []
    @args << n
  end
end
```

5. Run again and see the step pass

```
$ cucumber features/addition.feature
Feature: Addition  # features/addition.feature
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers
  Scenario: Add two numbers               # features/additi
    Given I have entered 50 into the calculator  # features/step_d
    And I have entered 70 into the calculator    # features/step_d
    When I press add                             # features/additi
    Then the result should be 120 on the screen  # features/additi
```

6. Repeat 2-5 until green like a cuke

```
$ cucumber features/addition.feature
Feature: Addition  # features/addition.feature
  In order to avoid silly mistakes
  As a math idiot
  I want to be told the sum of two numbers
  Scenario: Add two numbers               # features/additi
    Given I have entered 50 into the calculator  # features/step_d
    And I have entered 70 into the calculator    # features/step_d
    When I press add                             # features/step_d
    Then the result should be 120 on the screen  # features/step_d
```

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#21 SOAPUI

Who: Any Tester needing to test Web Services and APIs

What: SoapUI is an open source cross-platform Functional Testing tool for Service Oriented Architecture (SOA) and Web Service testing. With an easy-to-use graphical interface, and enterprise-class features, SoapUI allows you to easily and rapidly create and execute automated functional, regression, compliance, and load tests.

Where: http://www.soapui.org/

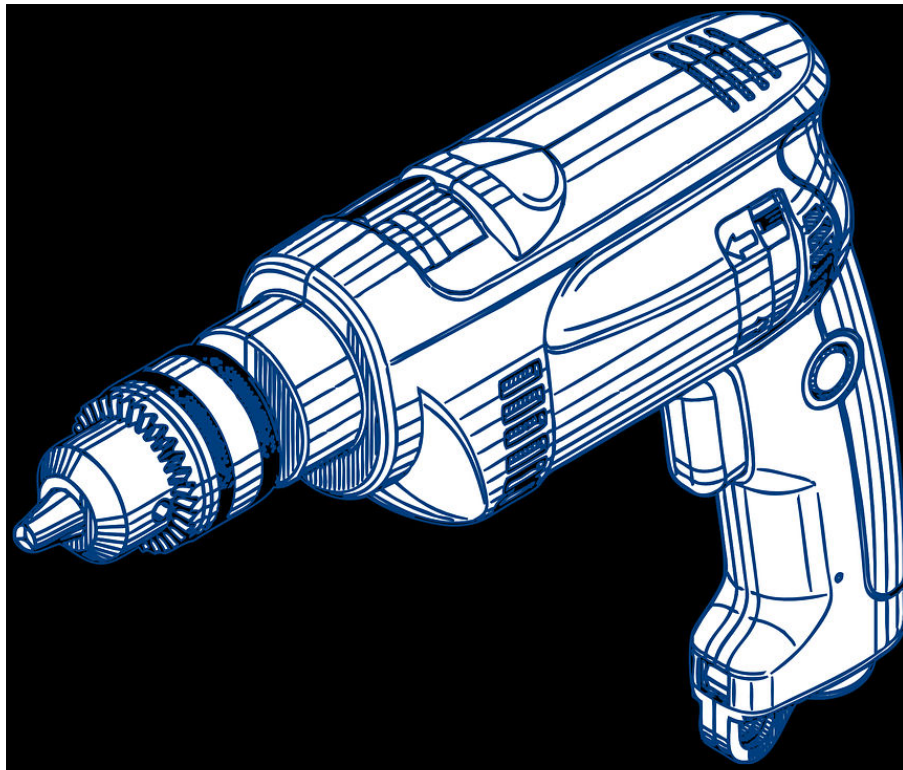STP SOFTWARE TEST PROFESSIONALS   @jessclancaster
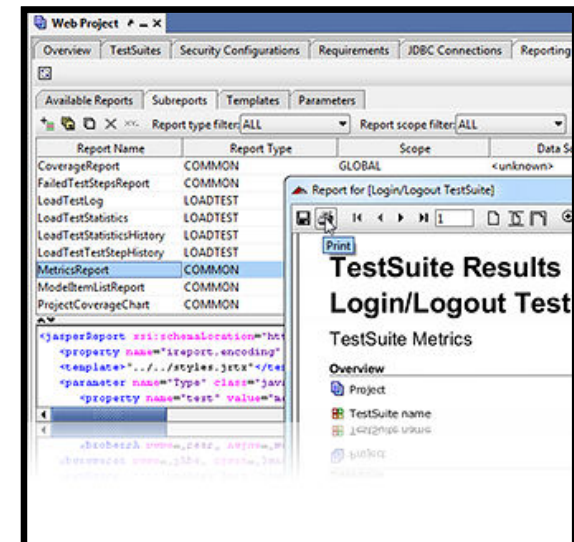
#22 POSTMAN

Who: Any Tester needing to test Web Services and APIs

What: Supercharge your API workflow with Postman! Build, test, and document your APIs faster. REST testing for browsers

Where: https://www.getpostman.com/

POSTMAN

Developing APIs is hard.
Postman makes it easy.

CATEGORY: TECHNICAL TOOLS

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#23 FIREBUG

Who: Focused Testers Feeling Frankly Fervent For Firefox Flavor

What: Firebug integrates with Firefox to put a wealth of web development tools at your fingertips while you browse. You can edit, debug, and monitor CSS, HTML, and JavaScript live in any web page.

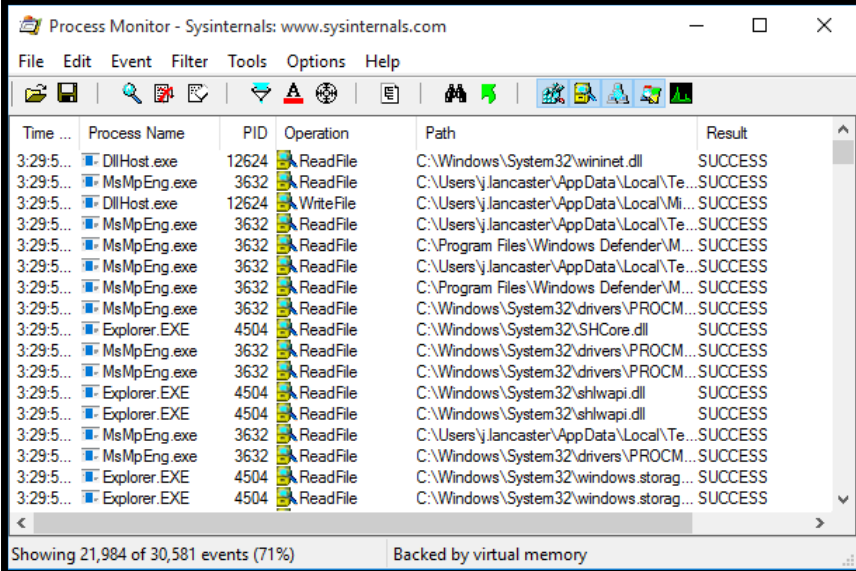Where: http://getfirebug.com/whatisfirebug

#24 PROCESS MONITOR

Who: Testers needing deep system monitoring capabilities

What: *Process Monitor* is an advanced monitoring tool for Windows that shows real-time file system, Registry and process/thread activity. It combines the features of two legacy Sysinternals utilities, *Filemon* and *Regmon*, and adds an extensive list of enhancements including rich and non-destructive filtering, comprehensive event properties

Where: https://technet.microsoft.com/en-us/library/bb896645.aspx

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#25 CCLEANER

Who: Any Tester who wants to clean up their cache

What: Cleans up unused files and settings, browser cache, cleans registry and fixes errors and broken settings, disables background programs

Where:
https://www.piriform.com/ccleaner
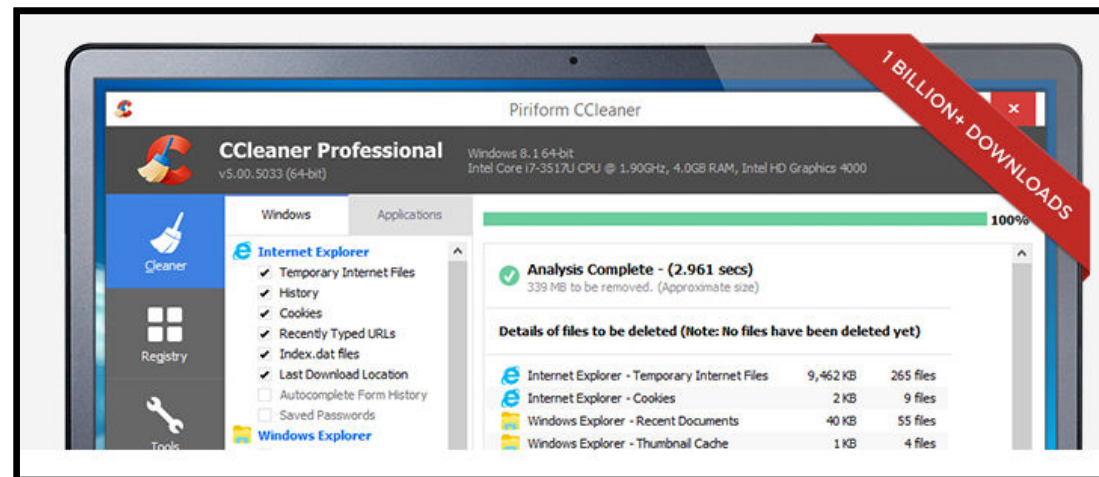
CATEGORY: TEST MANAGEMENT

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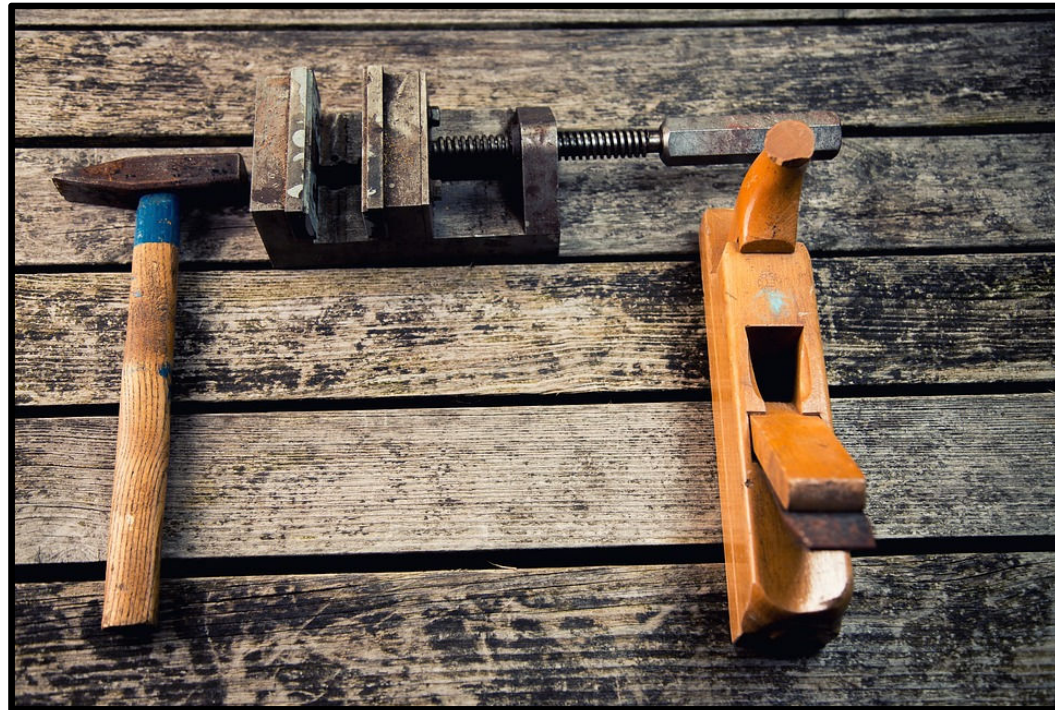
#26 TARANTULA

Who: Testers needing a free test case management tool

What: Tarantula is modern tool for managing software testing in agile software projects. Case, execution, requirements etc. management

Tags and SmartTags for efficient agile testing

Realtime dashboard views and reporting

Traceability from requirements to defects

Jira, Bugzilla and Doors integration

Where: http://www.testiatarantula.com/

TARANTULA™ by testers for testers

#27 TESTLINK

TestLink Open Source Test Management

Who: Testers needing a free test case management tool

What: Testlink is an open source tool for test management, such as test plans, cases, suites, execution, and reporting. It provides detailed reporting with easy management.

Where: http://testlink.org/

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AUDIENCE PARTICIPATION

WE NEED YOUR HELP! SHARE YOUR FREE TOOL RECOMMENDATION LIKE THIS IN THE WEBINAR COMMENTS

Tool Name

Who: <What kind of tester need does it fulfill? What purpose does it serve?>

What: <What can I do with it?>

Where: <address please http://>

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QUESTIONS / THANKS FOR ATTENDING AND PARTICIPATING!

Jess Lancaster

TechSmith Corporation

Twitter @jessclancaster

LinkedIn jesslancaster

TechSmith®

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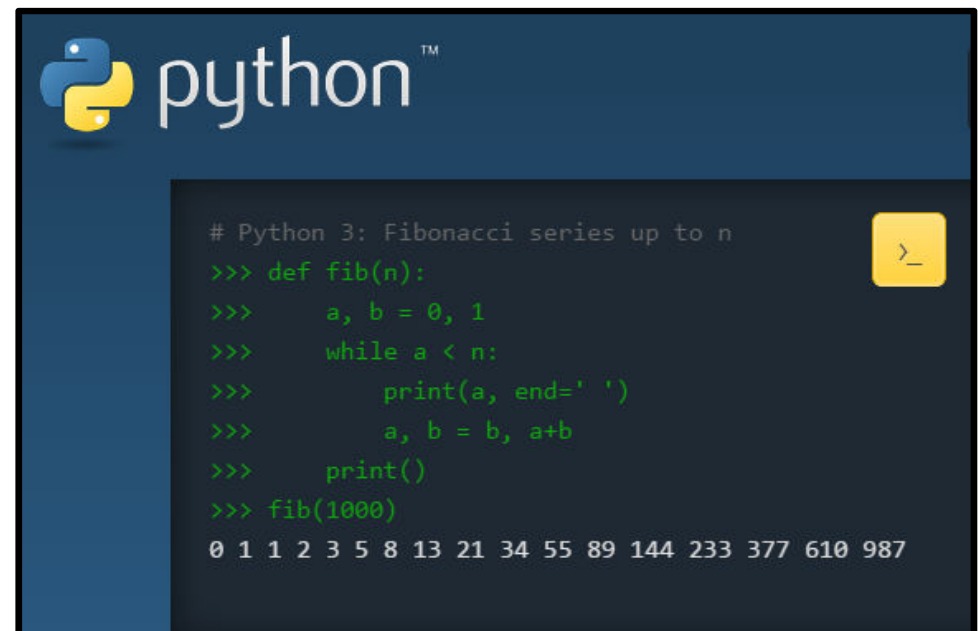# BONUS: THESE TOOLS DIDN'T MAKE MY CUT, BUT TESTERS HAVE MENTIONED THEM TO ME AS FAVORITES

@jessclancaster
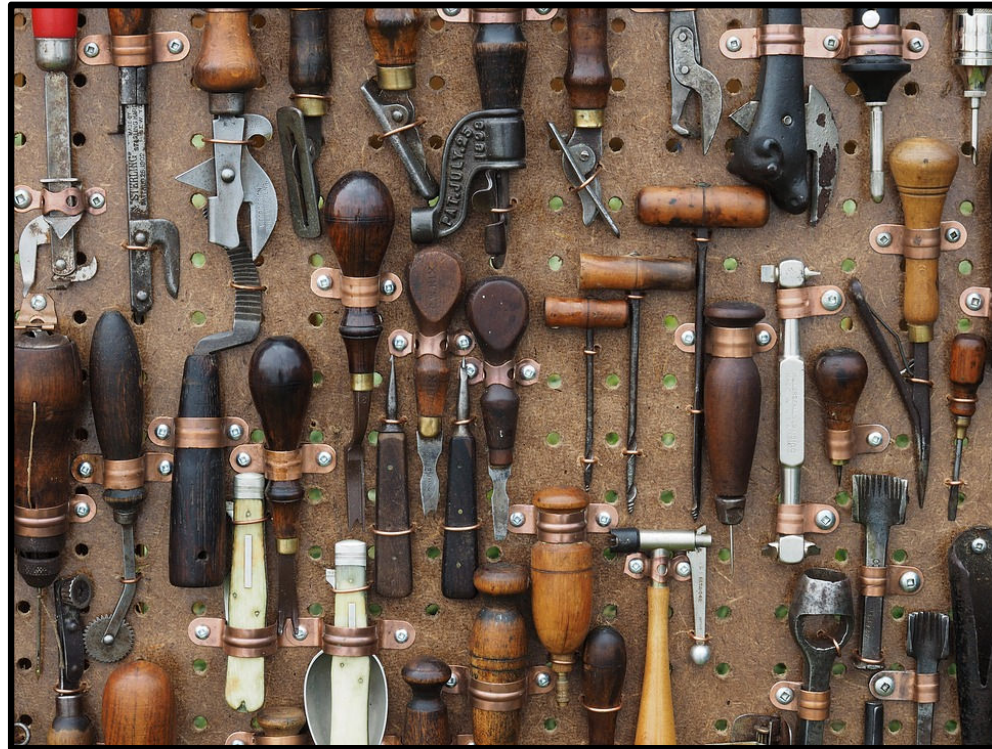
#28 PYTHON

Who: Any Tester looking to script up some task automation

What: General purpose scripting language

Where: http://www.python.org/

#29 ES FILE EXPLORER FILE MANAGER

Who: Any mobile Tester want to check out files

What: File System viewer and modifier. ES File Explorer (File Manager) is a full-featured file (Images, Music, Movies, Documents, app) manager for both local and networked use!

Where:
https://play.google.com/store/apps/details?id=com.estrongs.android.pop&hl=en /

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#30 WIRESHARK

WIRE**SHARK**

Who: Any Tester needing to look at all types of network traffic

What: Awesome for looking at network traffic with nice filtering options. Can look at several adaptors because you can have multiple instances open.

Where: http://www.wireshark.org/

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STPCON SPRING 2017 ATTENDEE FAVORITE TOOLS

Who: Pixel Ruler

What: For U.I. 'perfection' testing.
It is literally a ruler for your
screen. Can toggle between vertical
& horizontal.

Where: ~~Google it~~
download.cnet.com

Who: Collabedit

What: Great for hosting coding interviews. Supports
Syntax highlighting

Where: Collabedit.com

GREENSHOT
WHO: EVERY TESTER
IMAGE CAPTURING TOOL

what : 1. STH/VERY EASY TO
CAPTURE images, edit images,
add comments, colorcode, share
image

www.greenshot.com

WHO : PROGRAMMERS, TESTERS | SUBLIME TEXT |
WHAT : BETTER THAN NOTEPAD ++
NUFF SAID!
WHERE : www.sublimetext.com

WHO : ALL | TRANSMISSION BT |
WHAT : TORRENT FOR INTERNAL
USE
WHERE : transmissionbt.com

WHO : LINUX DEVS, TESTERS | mPuTTY |
WHAT : MULTI TAB PuTTY TOOL
(SSH)
THAT DOES NOT CRASH
WHERE : ttyplus.com/multi-tabbed-putty

WHO : PYTHON DEVS/TESTERS | PyCharm |
WHAT : BEST PYTHON IDE
WHERE : www.jetbrains.com/pycharm

WHO : ALL | open Grok |
WHAT : SOURCE CODE SEARCH AND
CROSS REF ENGINE
WHERE : opengrok.github.io/OpenGrok

WHO : NETWORK BASED DEVS/TESTERS | CLUMSY |
WHAT : BROKEN/SHITTY NETWORK SIMULATOR
WHERE : jagt.github.io/clumsy

Who: Any one needs to browse
LDAP

What JXPLORER

Where: google it

JXPLORER.org

Appium

Who: Those who need to automate mobile apps

What: A mobile app automation tool that is cross platform (cross language) and uses selenium webdriver behind the scenes

Where: http://appium.io

---

who: anyone | working or struggling with regular expressions

what: Rubular

where: www.rubular.com

1)

Who — Any Tester

What — Excel Macros

Where — M.S Office

2) Who → Automation Engineers/
Testers

What → UFT. (Unified functional Tester)

Where → H.P

Text Wrangler
~~Sublime text 3~~

Who: testers, Dev, Textpad users
     (Mac)

What: Upgraded/extended text Editor
     with plugins & syntax stuff

Where: ~~Sublimetext.com~~

www.barebones.com/products/
           textwrangler

mac App Store

CAPYBARA

WHO: TESTERS

WHAT: WEBDRIVER / ~~JAVA~~ WRAPPER

MAKES WEB TESTING & MASSAGING

SELENIUM EASIER.

WHERE: GITHUB.COM /

TEAMCAPYBARA /

CAPYBARA

DOCKER

codecademy

who: those wanting to develop
skills with various programming
languages.

what: Develop technical skills with
multiple languages. Guided tutorials.
Also tool usage tutorials

where: www.codecademy.com

---

surveymonkey

who: those seeking feedback

what: receive feedback from a customer

where: www.surveymonkey.com

Eclipse

Who - Selenium / Java Developer.

What - IDE
      Integrate with.   TestNG.
                         Maven.
                         Selenium etc.

Where - Google Eclipse

TestNG

Who - Selenium Developer

What - Test Suite Management

Where - Google TestNG.

- SlickRun   Store Shortcuts

- Mouse without borders (Access multiple C

    google Search for links