Types of Testing, part 2

2016

REGRESSION TESTING

A type of software testing that seeks to uncover new software bugs, or regressions, in existing functional and non-functional areas of a system after changes such as enhancements, patches or configuration changes, have been made to them.

May be:

- Bug regression
- Old bugs regression
- Side effect regression

SANITY TESTING

Sub-set of Regression testing.

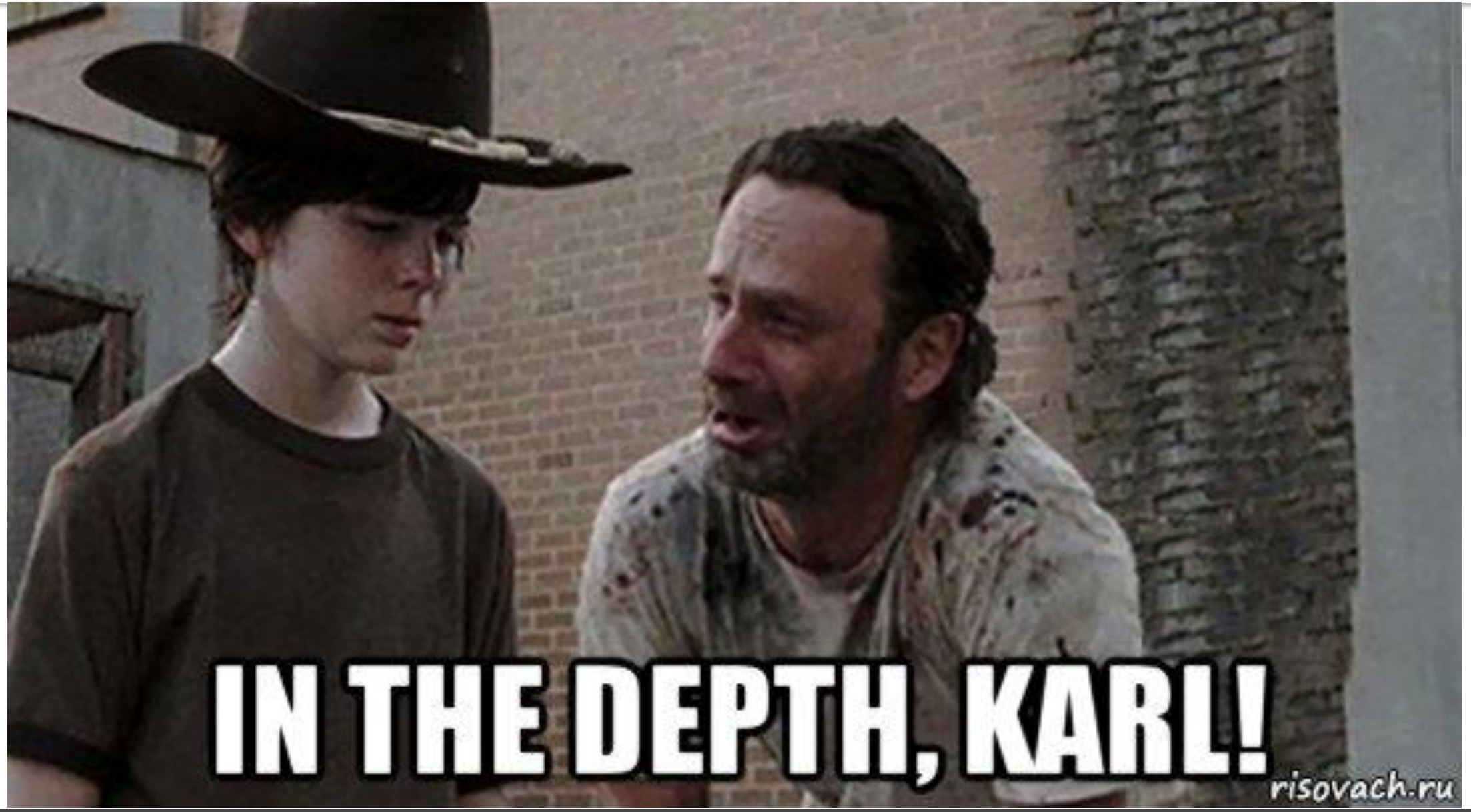
A very brief run-through of the functionality of a program, system, calculation, or other analysis, to assure that part of the system or methodology works roughly as expected. This is often prior to a more exhaustive round of testing.

SMOKE TESTING

Sub-set of Regression testing.

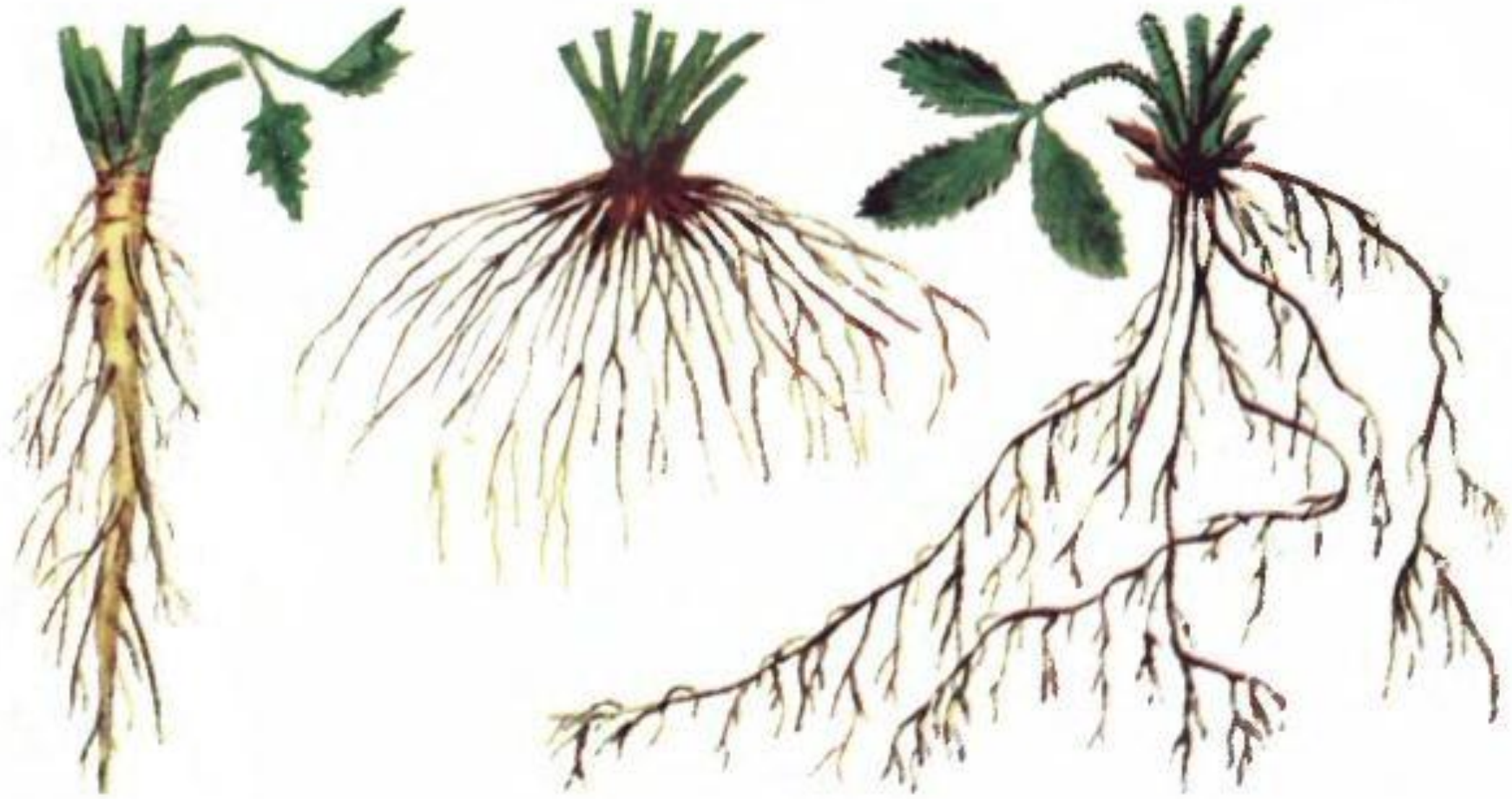
Main goal — to reveal critical failures enough to reject a prospective software release or take it for further work.

WHAT IS THE DIFFERENCE BETWEEN SMOKE AND SANITY?

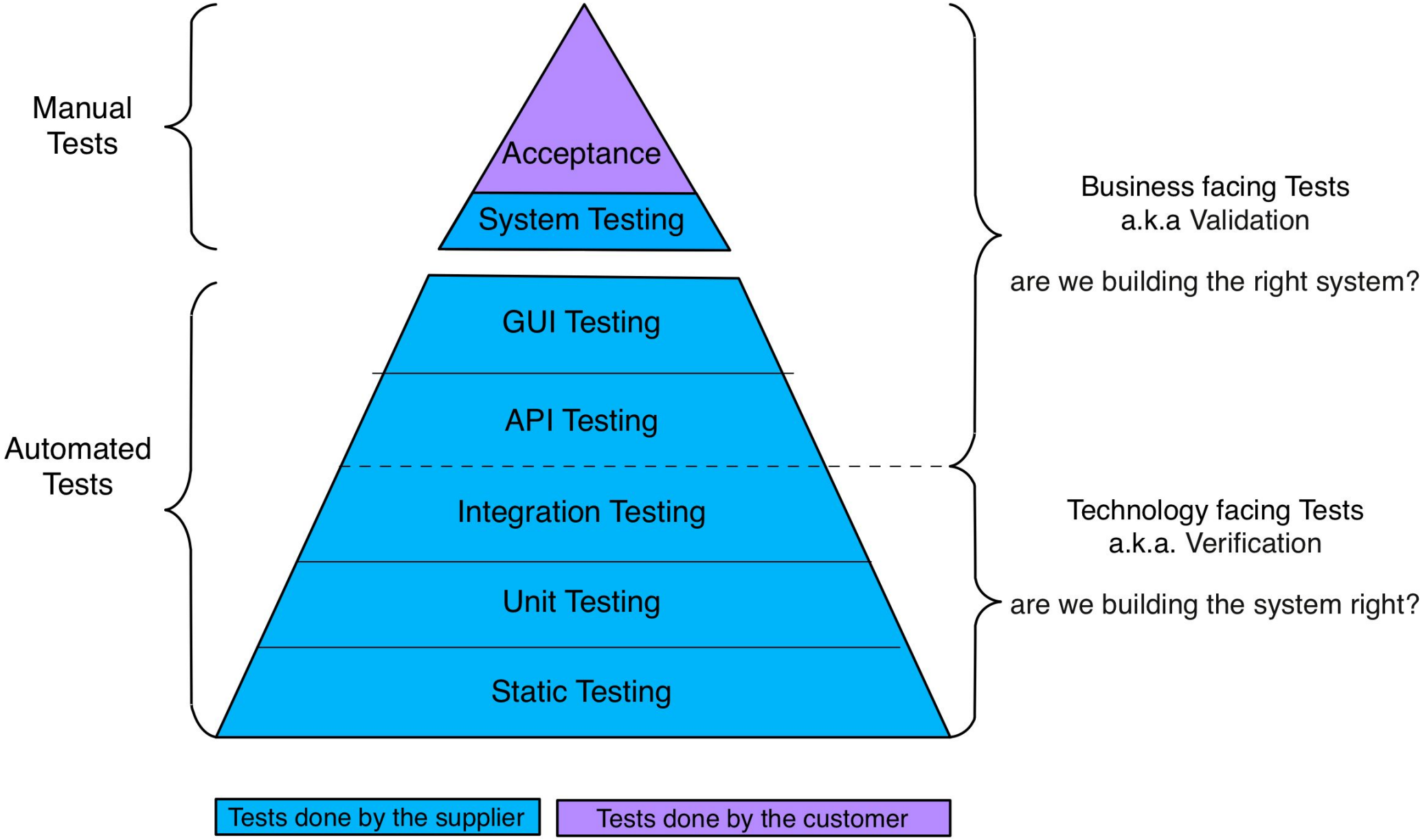


DEPTH OF TESTING

Sanity Smoke Regression



LEVELS OF TESTING


Manual Tests
Automated Tests
Acceptance
System Testing
GUI Testing
API Testing
Integration Testing
Unit Testing
Static Testing
Business facing Tests
a.k.a Validation
are we building the right system?
Technology facing Tests
a.k.a. Verification
are we building the system right?
Tests done by the supplier
Tests done by the customer

ANOTHER TYPES OF TESTING

INSTALLATION TESTING

The customers can to install, set up and deinstall the new software successfully.

Need to check:

- Correct install/update/deinstall
- Compatibility with 3th-party
- All user’s data was left

COMPATIBILITY TESTING

Is testing conducted on the application to evaluate the application's compatibility with the computing environment. Computing environment may contain some or all of the below mentioned elements:

- Computing capacity of Hardware Platform (IBM 360, HP 9000, etc.)
- Bandwidth handling capacity of networking hardware
- Compatibility of peripherals (Printer, DVD drive, etc.)
- Operating systems (Linux, Windows, Mac etc.)
- Database (Oracle, SQL Server, MySQL, etc.)
- Other System Software (Web server, networking/ messaging tool, etc.)
- Browser compatibility

LOCALIZATION TESTING

The process of adaptation to the cultural characteristics of a country: translation of documents, user interface elements, supporting materials from one language to another.

For example:

- System alerts
- Order of first name and last name
- Type and order of currency symbol
- Position of elements etc.

GUI

HOW TO TEST GUI

0, alpha and omega. See into Requirements!

1. Think as ending user!

2. Logic and common sense.

3. Attentiveness.

4, but not ending. Use the team, Luke!

HOW TO DON'T TEST GUI

Sphere horse in vacuum

HOW TO TEST GUI

REQUREMENTS

REQUREMENTS

Should be:

- Unitary (Cohesive)
- Complete
- Consistent
- Non-Conjugated (Atomic)
- Traceable
- Current
- Feasibility
- Unambiguous
- Specify Importance
- Verifiable

REQUREMENTS

Должны быть:

- Единичность
- Завершенность
- Последовательность
- Независимость (атомарность)
- Отслеживаемость
- Актуальность
- Выполнимость
- Недвусмысленность
- Обязательность
- Проверяемость

WHY IT'S IMPORTANT?

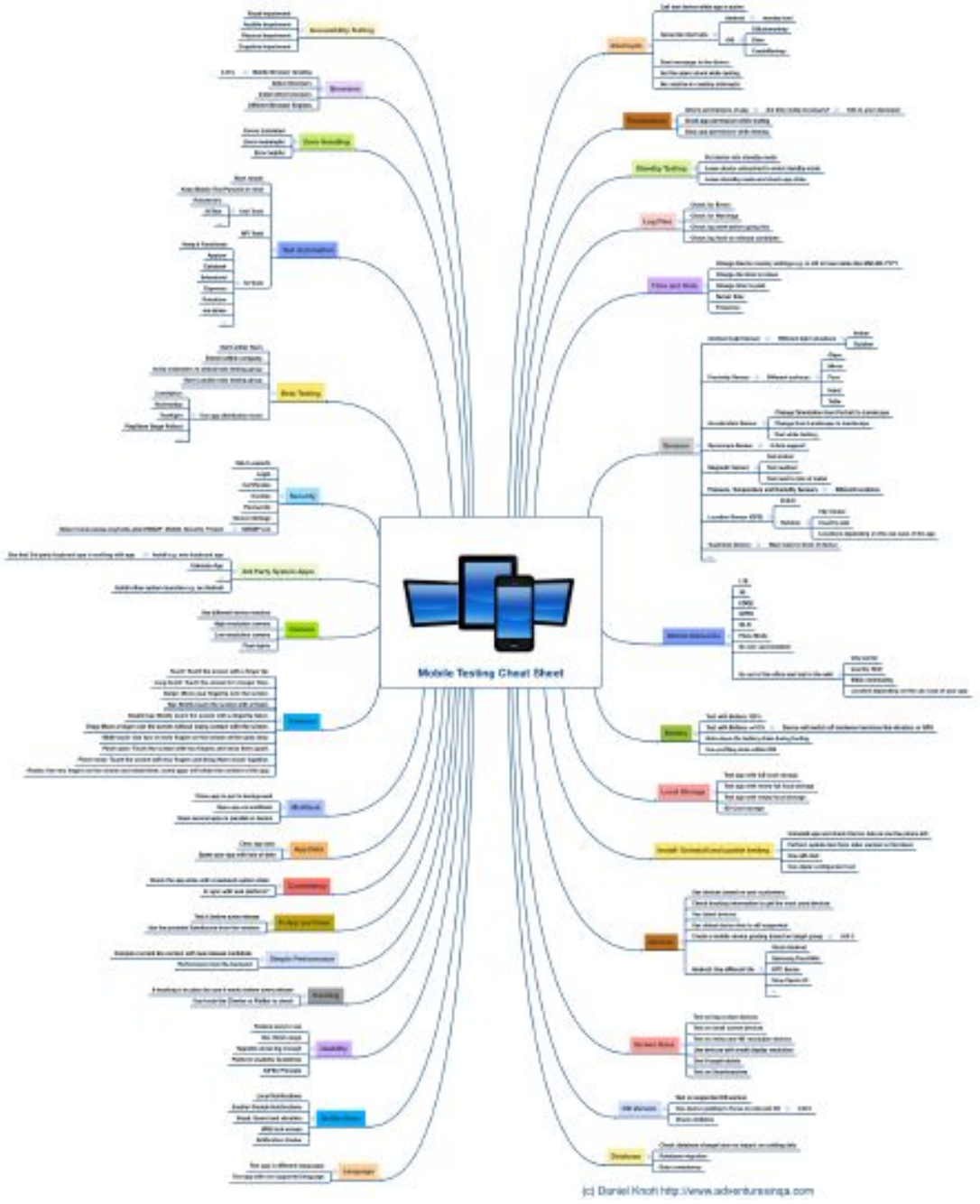
http://urupin.livejournal.com/158556.html

REQUREMENTS SOURCES

ALL!

From standards as IEEE to competitor’s products.

MOBILE TESTING


Mobile Testing Cheat Sheet
(c) Daniel Knott http://www.adventuressqa.com

BUGS (ISSUES, DEFECTS)

4 QUESIONS

What?

Where?

When?

Why?

THANK YOU FOR YOUR ATTENTION