Tester une application

Live coding sur les tests d'acceptances d'une application html5/javascript **#bdd #javascript**

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agile france 2013

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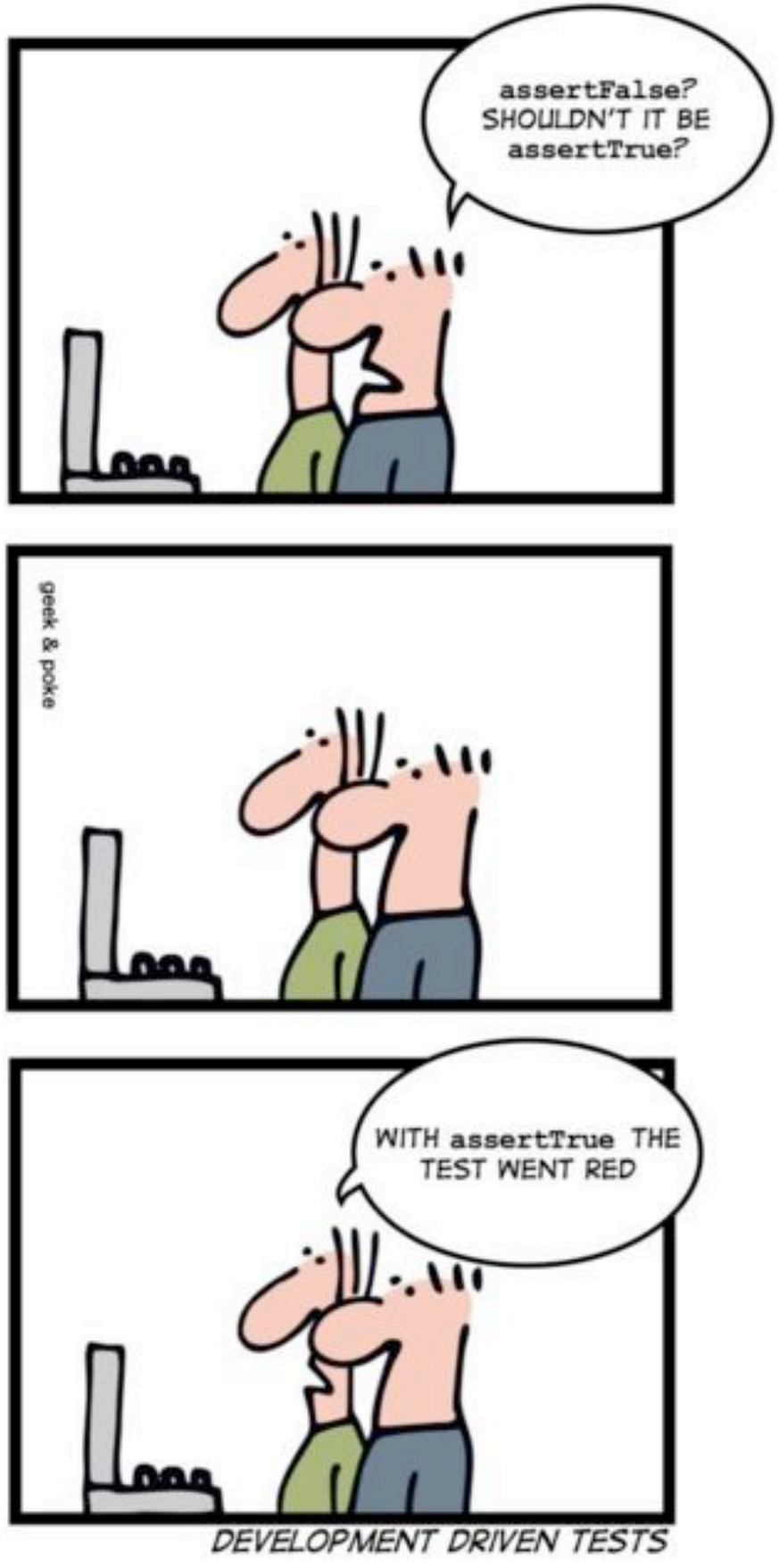
Follow

Developer job title cheat sheet:

Senior = Old
Manager = Expendable
Architect = Can't code
Evangelist = Can't ship

2:59 PM - 25 Apr 2013

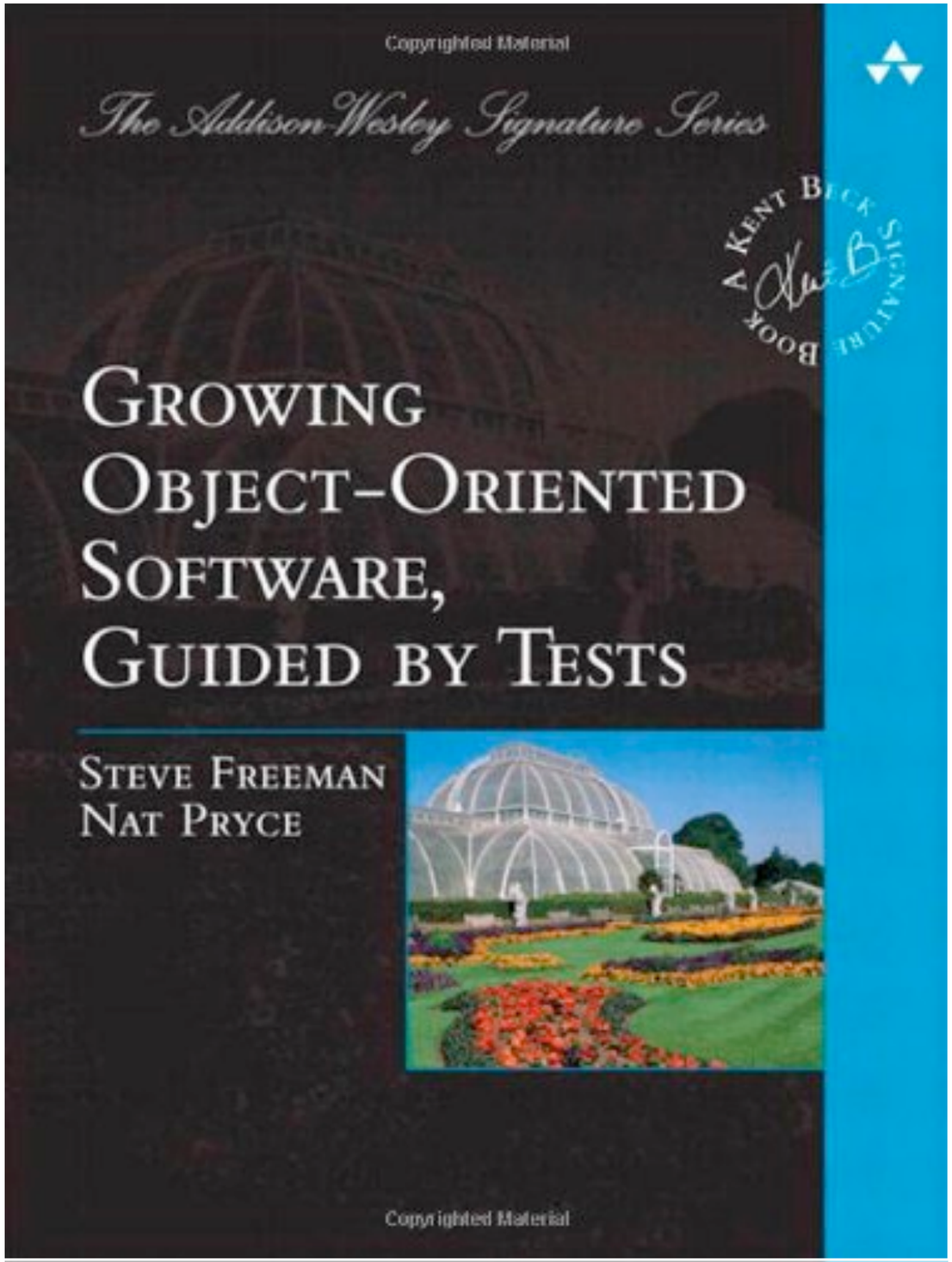
281 RETWEETS **66** FAVORITES


assertFalse?
SHOULDN'T IT BE
assertTrue?
geek & poke
WITH assertTrue THE
TEST WENT RED
DEVELOPMENT DRIVEN TESTS

TESTING

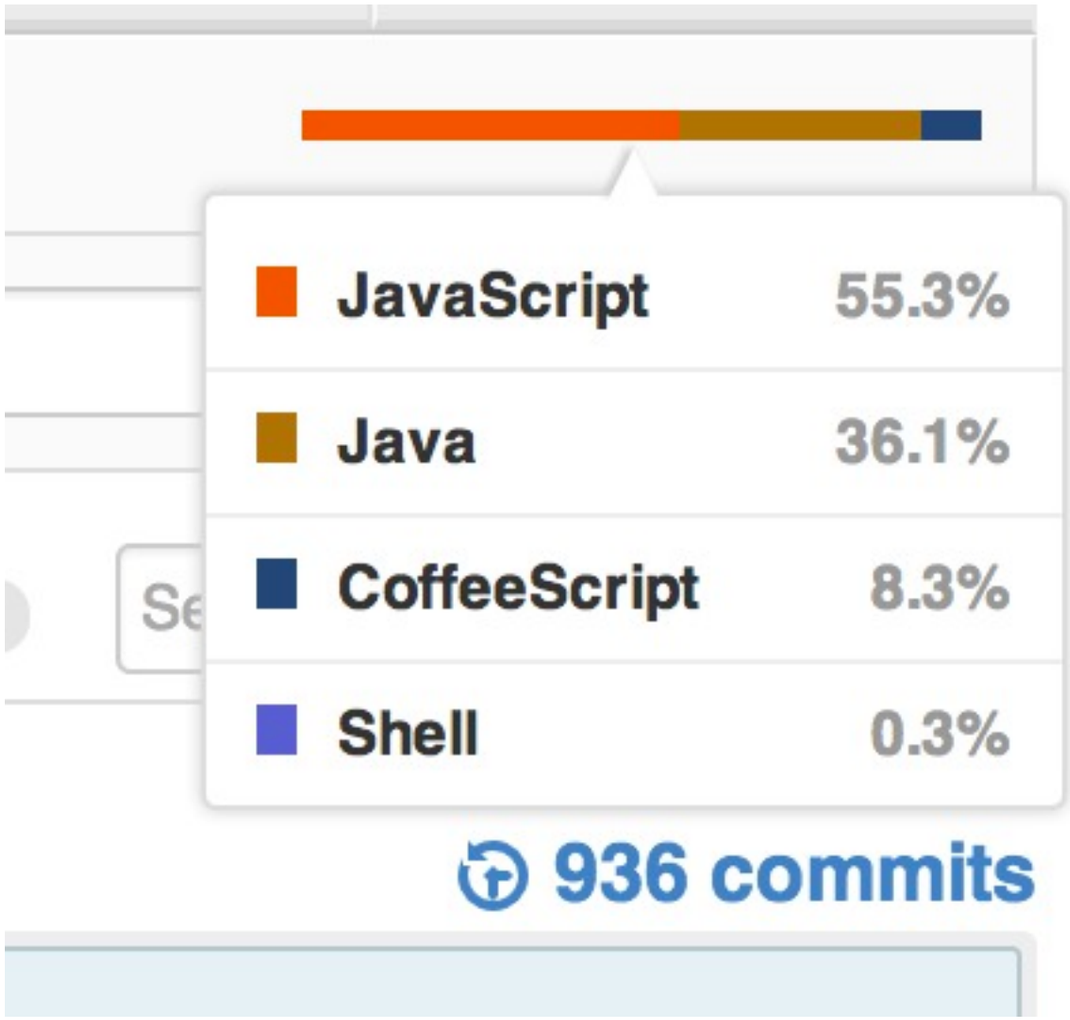
I FIND YOUR LACK OF TESTS DISTURBING.

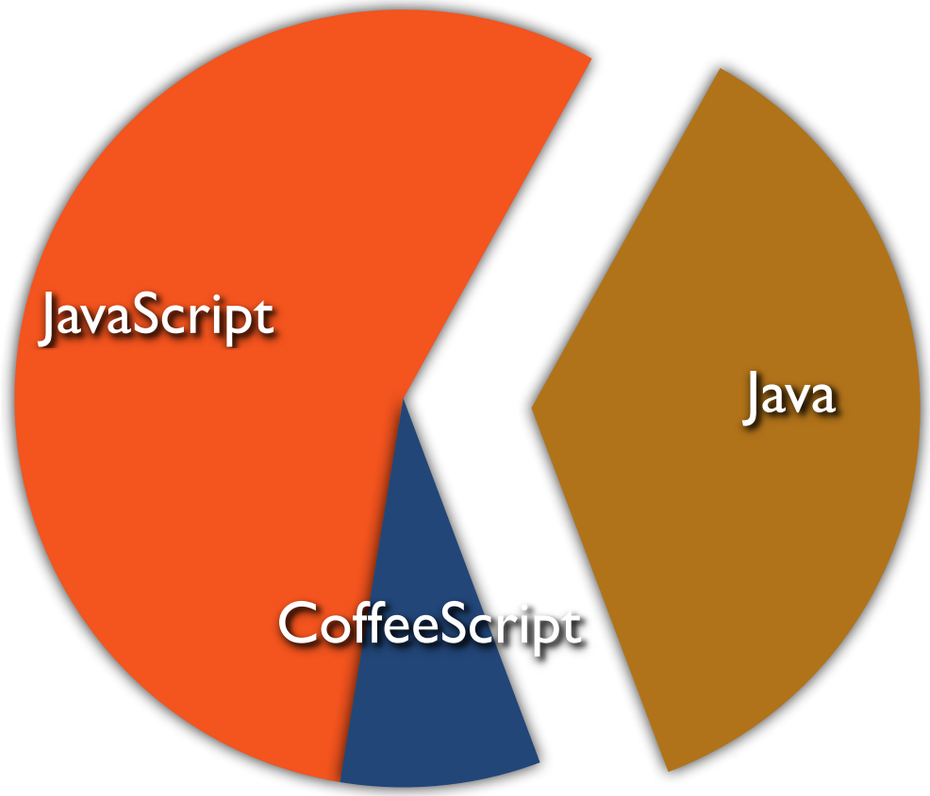
DIY.DESPAIR.COM

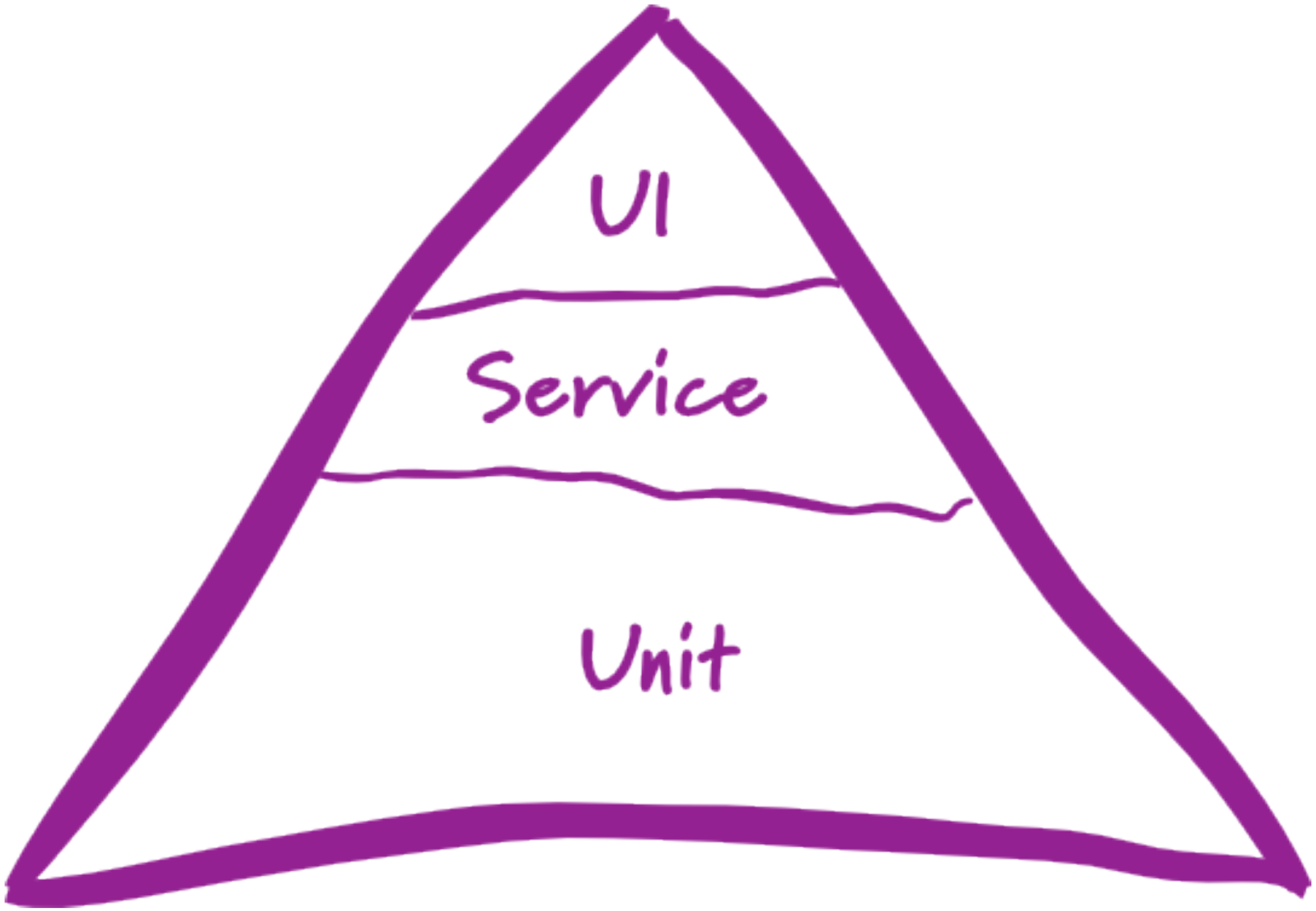


http://www.growing-object-oriented-software.com/

Projets d'aujourd'hui







http://martinfowler.com/bliki/TestPyramid.html

Abbot

```
public class LabeledListTest extends ComponentTestFixture {

    public void testLabelChangedOnSelectionChange() throws Throwable {
        String[] contents = { "one", "two", "three" };
        final LabeledList labeledList = new LabeledList(contents);
        showFrame(labeledList);

        Component list = getFinder().find(new ClassMatcher(JList.class));
        JListTester tester = new JListTester();

        JLabel label = (JLabel)getFinder().find(labeledList, new Matcher() {
            public boolean matches(Component c) {
                return c.getClass().equals(JLabel.class)
                    && c.getParent() == labeledList;
            }
        });


        tester.actionSelectRow(list, new JListLocation(1));

        assertEquals("Wrong label after selection",
                     "Selected: two", label.getText());

        tester.actionSelectRow(list, new JListLocation(2));
        assertEquals("Wrong label after selection",
                     "Selected: three", label.getText());

        tester.actionSelectRow(list, new JListLocation(0));
        assertEquals("Wrong label after selection",
                     "Selected: one", label.getText());
    }

    public LabeledListTest(String name) { super(name); }

}
```

HtmlUnit

```
@Test
public void homePage() throws Exception {
    WebClient webClient = new WebClient();
    HtmlPage page = webClient.getPage("http://www.conference-agile.fr/");
    assertEquals("Agile France", page.getTitleText());

    String pageAsXml = page.asXml();
    assertTrue(pageAsXml.contains("<body itemscope"));

    String pageAsText = page.asText();
    assertTrue(pageAsText.contains("Des idées pour tout de suite!"));

    webClient.closeAllWindows();
}
```

Selenium

```
public class NewTest extends SeleneseTestCase {
// We create our Selenium test case

      public void setUp() throws Exception {
        setUp("http://www.mix-it.fr/", "*firefox");
      }

      public void testNew() throws Exception {
            selenium.open("/");
            selenium.type("q", "rocks");
            selenium.click("btnG");

            selenium.waitForPageToLoad("30000");

            assertTrue(selenium.isTextPresent("ROCKS !"));
      }
}
```

Zombie.js

```
var Browser = require("zombie");

browser = new Browser();
browser.visit("http://localhost:3000/", function () {

   browser.fill("email", "jeanlaurent@serpodile.com");
   browser.fill("password", "youDontWantToKnow");

   browser.pressButton("Login", function() {
        assert.ok(browser.success);
         assert.equal(browser.text("title"), "Welcome to Serpodile");
   });

});
```

Zombie.js

```
Browser = require("zombie")

browser = new Browser()
browser.visit "http://localhost:3000/", ->

  browser.fill "email", "jeanlaurent@serpodile.com"
  browser.fill "password", "youDontWantToKnow"

  browser.pressButton "Login", ->
       assert.ok browser.success
       assert.equal browser.text "title" , "Welcome to Serpodile"
```

Cucumber

```
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 5 into the calculator
  And I have entered 7 into the calculator
  When I press the button
  Then the result should be 12 on the screen
```

DEMO TIME

Talk - Action = S**t

Références

- BDD
  - http://referentiel.institut-agile.fr/bdd.html
- Zombie.js
  - http://zombie.labnotes.org/
- Cucumber.js
  - https://github.com/cucumber/cucumber-js
- Chai.js
  - http://chaijs.com/

Source & Slides

https://github.com/jeanlaurent/CucumberAndZombie

Pour aller plus loin

- UI Test
  - Karma: http://karma-runner.github.io
  - Casper.js: http://casperjs.org/
  - FluentLenium: https://github.com/FluentLenium/
- Unit Testing
  - Jasmine: https://github.com/pivotal/jasmine
  - Buster.js : http://docs.busterjs.org/en/latest/
  - Mocha : https://github.com/visionmedia/mocha
  - QUnit : http://qunitjs.com/
  - Sinon.js: http://sinonjs.org/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