

# QUALITY ASSURANCE

WELCOME TO THE DARK SIDE?

*“Testers don’t break software,  
software is already broken.”  
Amir Gahrai*

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# OVERVIEW

A couple of the things we will be covering

- What is quality assurance
- What are good skills to have
- How to get into QA



# MY BACKGROUND

← Previous

→ Current

Sales  
Collections  
Customer Relations  
Hardware Testing  
Hardware Programming  
Mainframe Programming  
Project Management  
Web Programming  
Business Analysis  
Software Quality Assurance  
Security Testing

Shaw) Overwatea Food Group JPL FC SR ELECTRONICS TEST CENTRE MIL-SPEC

MPB OpenInvoice digital oilfield Oildex ADP NORTEL

FORCES.CA



Quality Advocate  
Test Automation  
Policy/Procedure  
SOC Audit

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Software Development  
Management/QA  
Consulting  
Automation Training  
Test Automation  
Penetration Testing

# SO, WHAT IS QA?

Executing manual, pre-defined steps from pre-determined lists of scripted checks that will test all possibilities, inputs, and outcomes to make sure that there are no bugs in the software.

**Good luck with that!** If you can predict all of the places that the bugs will be before hand, why not prevent them from happening in the first place?

# QA IS

- Asking questions, not just about software functionality
- Working on the whole process, inception to delivery
- Helping to prevent issues before they happen
- Helping to keep things working as expected
- **Everyone's responsibility**

# QA IS NOT

- Criticizing or attacking
- Blocking progress
- Eliminating all bugs
- Preventing failure

# NOR IS IT

- ..always easy





 *Can't see the forest for  
the trees* 

- ..for everyone
- ..an assurance of success
- ..an after thought

**AN OPTION!**

# SKILLS & ABILITIES

## WHAT MAKES A GOOD QA?

-  Communication
- Ability to see issues
-  Collaboration
- Varied experience
-  Communication
- Curiosity
- Courage
-  Communication



# TYPES OF TESTING

- User Experience/Accessibility
- Stress/Performance/Load
- Risk based
- Security
- Integration
- Specification
- Standards Based
- Model Based
- End-to-end
- Regression

# How do I get into this gig?

```
Learn software development
Learn about software requirements
Learn about the full lifecycle
Learn about the users
Learn about psychology
Play, poke, prod, don't be afraid to try
Fail
```

# WHERE TO GO FROM HERE?

- Software Quality Discussion Group
  - [sqdg.ca](http://sqdg.ca)
  - [sqdg.slack.com](https://sqdg.slack.com)
- [Ministry of Testing](#)
- [Utest](#)
- [PQA](#)

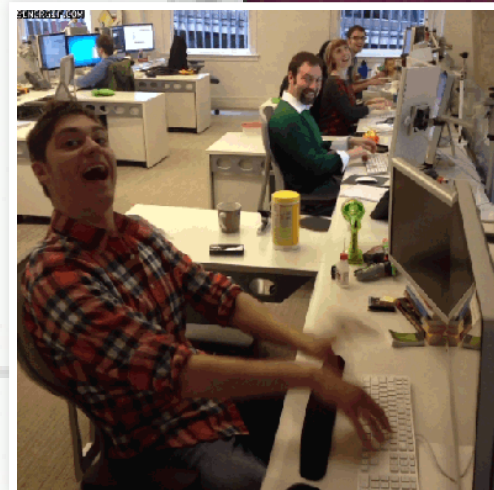
# AUTOMATION!

```
org.openqa.selenium.WebDriver;
org.openqa.selenium.WebElement;
org.openqa.selenium.support.ui.ExpectedConditions;
org.openqa.selenium.support.ui.WebDriverWait;

public class SampleTestCaseWebdriver {
    private WebDriver driver;
    private String baseUrl;
    private boolean acceptNextAlert;
    private StringBuffer verificationErrors = new StringBuffer();

    @Before
    public void setUp() throws Exception {
        driver = new FirefoxDriver();
        baseUrl = "http://chorens.com";
        driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
    }

    @Test
    public void testSampleTestCaseWebdriver() throws Exception {
        driver.get(baseUrl + "/markdowntutorial/tutorial/emphasis.html");
        driver.findElement(By.cssSelector("button.button-primary.button-next")).click();
        try {
            assertTrue(isElementPresent(By.id("btn_answer_1-1")));
        } catch (Error e) {
            verificationErrors.append(e.toString());
        }
        driver.findElement(By.id("editor_1-1")).clear();
        driver.findElement(By.id("editor_1-1")).sendKeys("The music video for Rihanna's song 'We Found Love' is available on YouTube.");
        // ERROR: Caught exception [ERROR: Unsupported command [firevent | id=editor_1-1 | setUp]]
        try {
            assertTrue(isElementPresent(By.xpath("//body/div[3]")));
        }
    }
}
```



*Don't re-test  
yourself - D.R.Y.*

Thank you!

Questions?:> \_