

Building the test framework: TestNG annotations

Test automation basics with Selenium & Java

Mostly usable TestNG annotations

- @Test
- Before:

```
@BeforeSuite, @BeforeTest,
@BeforeClass, @BeforeMethod
```

• After:

```
@AfterSuite, @AfterTest,
@AfterClass, @AfterMethod
```

• @DataProvider

Move repetitive code to @Before and @After

```
public class SearchTest {
    private WebDriver driver;
   @BeforeClass
    public void setUp() {
        File file = new File("src/main/resources/chromedriver.exe");
        System.setProperty("webdriver.chrome.driver", file.getAbsolutePath());
        driver = new ChromeDriver();
        driver.navigate().to("https://www.google.com");
   @AfterClass
    public void tearDown() {
        driver.quit();
```

Now test is short and clear



Let's improve our tests even more

- 1) Move @Before and @After annotations to abstract class BaseTest
- 2) Extend SearchTest with BaseTest class

BaseTest includes pre and post actions

```
public abstract class BaseTest {
    protected WebDriver driver;

    @BeforeClass
    public void setUp() {
        File file = new File("src/main/resources/chromedriver.exe");
        System.setProperty("webdriver.chrome.driver", file.getAbsolutePath());
        driver = new ChromeDriver();
        driver.navigate().to("https://www.google.com");
    }

    @AfterClass
    public void tearDown() {
        driver.quit();
    }
}
```

SearchTest (steps, results) inherits BaseTest



Exercise

Modifying tests framework

Update your tests with following changes:

- 1) maximize browser window when new driver instance is created
- 2) modify setUp() method to be able to do quick switch between MS Edge Driver and Chrome Driver