How to run Selenium tests in Safari browser?
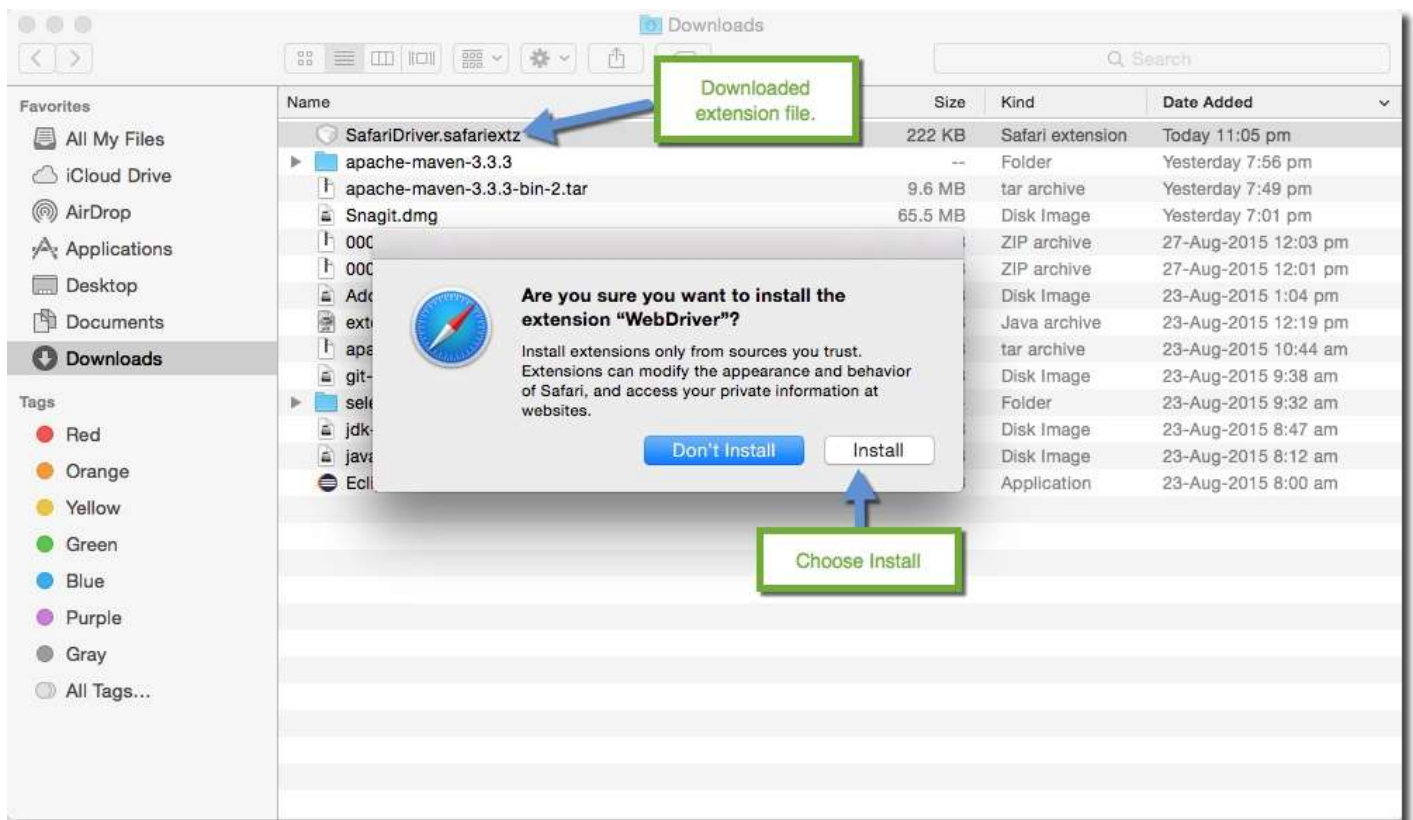
Step 1 - Set Up WebDriver Extension for Safari browser
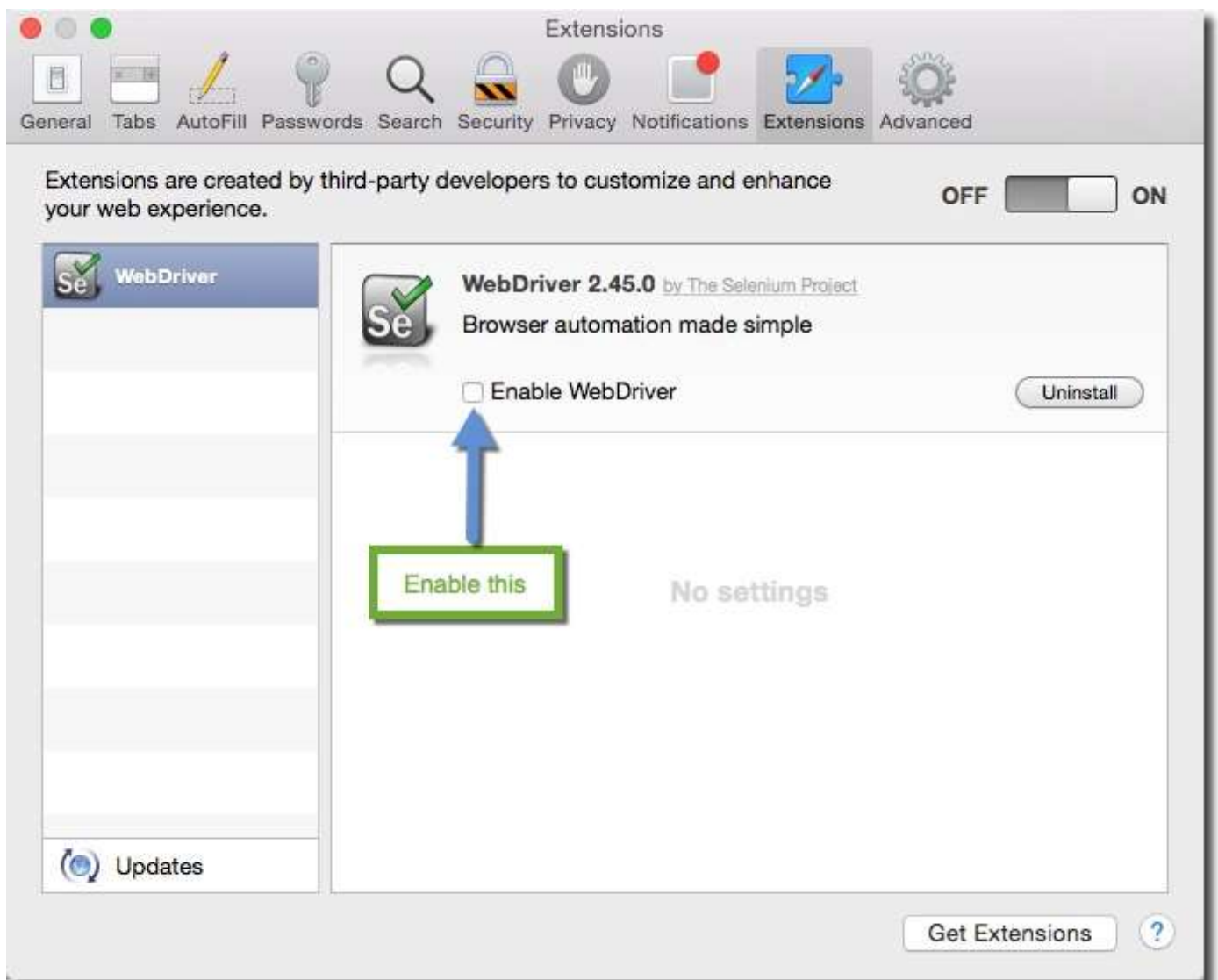
. **Download the Safari Browser Extension - The latest** version of **Safari browser extension** can be downloaded **here.**

. **Install the Safari Browser Extension -** Go to the folder where the file has downloaded and double click on it. You will get a prompt, as shown in the image below, there select "**Install**"

Download folder image

. **Enable WebDriver Browser Extension -** Now open the **preferences** pane on the *Safari* browser. Go to **Safari >> Preferences and** open the preferences window.

In the preferences window select *Extension.* There you will find Selenium web driver listed in the extensions list, select the checkbox. As shown in the below image

Safari extension window

Note: Make sure that you have an *"Enable WebDriver"* check-box enabled.

. *Restart your Browser -* All you have to do here is to restart your browser.

Write Selenium WebDriver code to Launch Safari

As I said earlier running selenium tests in Safari is exactly similar to working with Firefox or IE. Safari browser is represented by a class called *SafariDriver* in the *org.openqa.selenium.safari package.* All we have to do is create an instance of the SafariDriver class. Below is a sample code to do that

```
package Usage;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
```

```java
import org.openqa.selenium.WebElement;
import org.openqa.selenium.safari.SafariDriver;

public class SafariUsage {

        public static void main(String[] args)
        {
                WebDriver driver = new SafariDriver();
                driver.get("https://store.demoqa.com");

                //Find some element on DemoQa.com
                WebElement element = driver.findElement(By.id("login"));
                element.click();

        }

}
```

Here you can see that all we have to do is create an instance of **SafariDriver** and use it like a regular **WebDriver** that we have been using it like for other browsers.

Issues:

. Only **http://** and **https://** protocols are supported on Safari.
. Safari is not able to handle alerts, so we have to suppress alerts in the case of Safari.