Selenium + C# in VS Code — Quick Lab (with Screenshots)

This walkthrough helps you set up Selenium in VS Code, run a Hello World on example.com, then test Conestogac.on.ca and print its top-level heading.

0) Prerequisites

- .NET 8 SDK installed
- Google Chrome installed
- VS Code with C# Dev Kit & C# extensions

1) Create the project

```
mkdir selenium-lab && cd selenium-lab
dotnet new console -n SeleniumHello
cd SeleniumHello
dotnet run
```

2) Add Selenium packages

```
dotnet add package Selenium.WebDriver
dotnet add package Selenium.Support
```

3) Replace Program.cs with:

```
using System;
using OpenQA.Selenium;
using OpenQA.Selenium.Chrome;
using OpenQA.Selenium.Support.UI;
using SeleniumExtras.WaitHelpers;

class Program
{
    static void Main()
    {
        var options = new ChromeOptions();
        options.AddArgument("--headless=new");

        using var driver = new ChromeDriver(options);

        // Demo A: example.com
        driver.Navigate().GoToUrl("https://example.com");
        string title = driver.Title;
        string h1 = driver.FindElement(By.CssSelector("h1")).Text;
        Console.WriteLine("[Example.com]");
        Console.WriteLine($"Title: {title}");
        Console.WriteLine($"H1: {h1}");

        // Demo B: conestogac.on.ca
        driver.Navigate().GoToUrl("https://www.conestogac.on.ca");
        var wait = new WebDriverWait(driver, TimeSpan.FromSeconds(15));
        IWebElement heading = wait.Until(drv =>
        {
            try {
                var el = drv.FindElement(By.CssSelector("h1"));
                return !string.IsNullOrWhiteSpace(el.Text)? el : null;
            } catch { return null; }
        });
        Console.WriteLine("[Conestoga]");
```
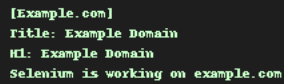
```
        Console.WriteLine($"Title: {driver.Title}");
        // outputs discovered heading value
        Console.WriteLine($"Top-level heading discovered: {heading.Text}");
    }
}
```
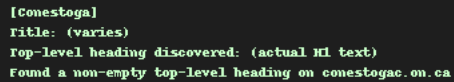
4) Run it

```
dotnet run
```

Expected output sample

Below are screenshots of the expected console output:


```
[Example.com]
Title: Example Domain
H1: Example Domain
Selenium is working on example.com
```



```
[Conestoga]
Title: (varies)
Top-level heading discovered: (actual H1 text)
Found a non-empty top-level heading on conestogac.on.ca
```