

The background features a light gray dashed line forming a large, irregular circular path. Various colored circles and rings are scattered around the text. In the top-left, there is a large teal ring and a smaller teal circle. In the top-right, there is a large lime green circle and a smaller green circle. In the bottom-left, there is a large green circle with a white center and a smaller yellow circle. In the bottom-right, there is a large yellow ring, a medium orange circle, and a small pink circle.

Teste de
Software

Com Selenium

“

“ O sucesso vem do trabalho
Que você faz
Quando ninguém está vendo...”

@sejaseumentor

Hello!



Eu sou Ketlin Pedron

Estou aqui porque sou uma eterna apaixonada por conhecimento!

Me encontre em:

@k_pedron

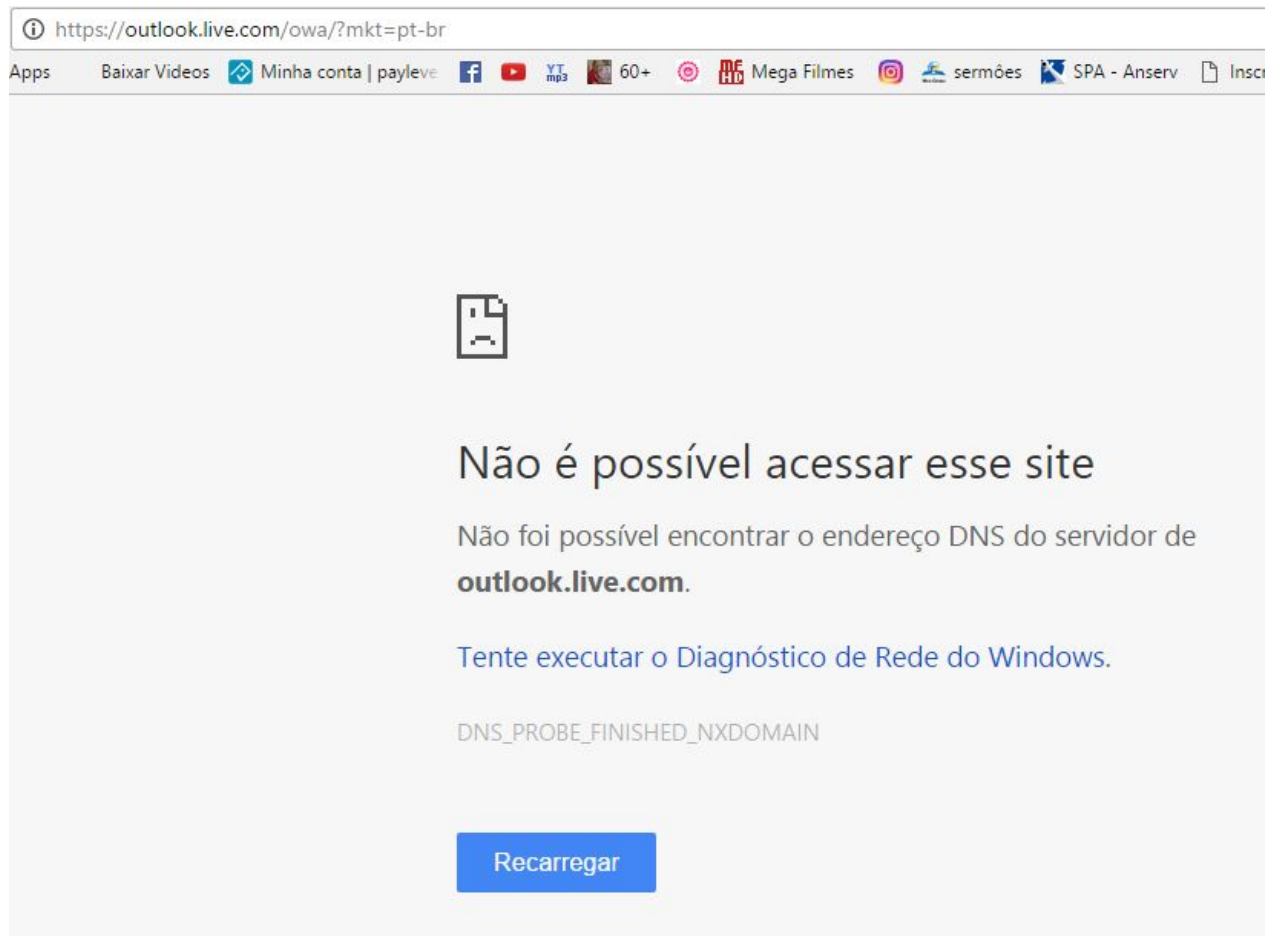


Ketlin Pedron





Alguma vez você
precisou muito utilizar
um sistema?





- ⦿ Usuário com dificuldade para concluir ações
- ⦿ Sistema lento
- ⦿ Falta de orientação visual

A importância do e-commerce





Quem é o responsável
pela qualidade do
projeto?

TODOS !



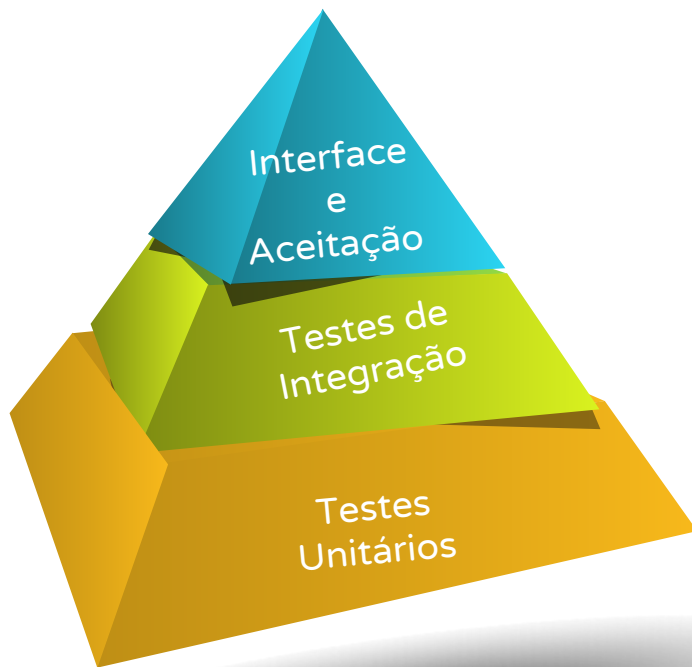
O Melhor testador de Software é
aquela pessoa ...

Pessimista ...

O Desconfiado ...



A pirâmide da Automação de Teste

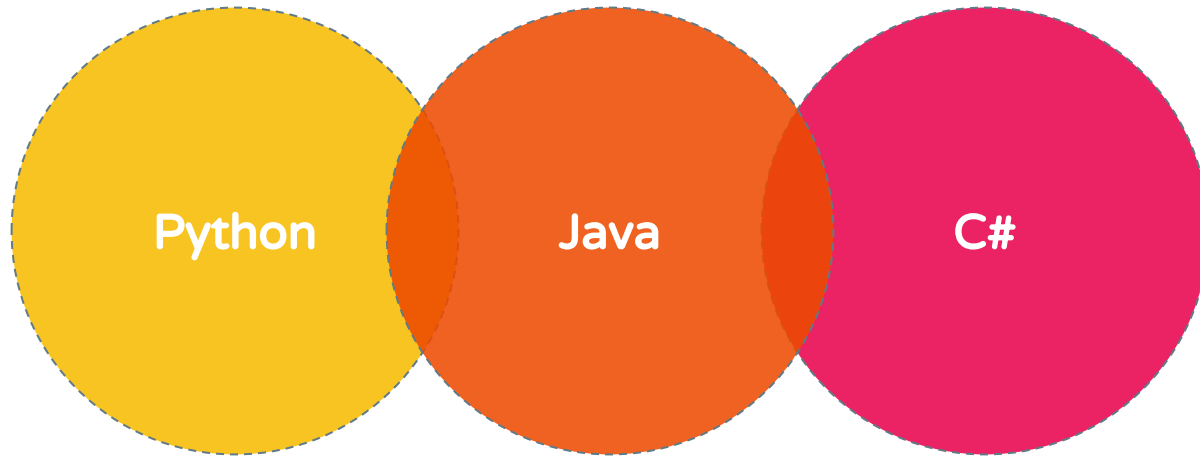


○ Selenium



WebDriver

PRINCIPAIS LINGUAGENS UTILIZADAS



Hoje iremos utilizar C# como exemplo !



Passo a Passo do Sucesso



1º : Entender o que o HTML tem
a oferecer


2º : Iniciar o projeto





NuGet: PalestraSelenium ➔ X UnitTest1.cs Output

Browse Installed Updates **NuGet Package Manager: PalestraSelenium**

selenium x ↕ ☐ Include prerelease Package source: nuget.org ⚙


**Selenium.WebDriver** by Selenium Cor v3.141.0
.NET bindings for the Selenium WebDriver API

**Selenium.Support** by Selenium Comm v3.141.0
Provides support classes for Selenium WebDriver

**Selenium.Chrome.WebDriver** by jba v2.43.0

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☐ Do not show this again

**Selenium.WebDriver**

Version: Latest stable 3.141.0 ↕ **Install**

▼ **Options**

Description


Selenium is a set of different software tools each with a different approach to supporting browser automation. These tools are highly flexible, allowing many options for locating and manipulating elements within a browser, and one of its key features is the support for automation.


NuGet: PalestraSelenium x UnitTest1.cs Output


Browse Installed Updates

NuGet Package Manager: PalestraSelenium

nunit x ↕ ☐ Include prerelease Package source: nuget.org ⚙


 **NUnit** ✓ by Charlie Poole, Rob Prouse, 29. v3.11.0
NUnit is a unit-testing framework for all .NET languages with a strong TDD focus.

 **NUnit.Console** ✓ by Charlie Poole, Rob P v3.9.0
Console runner for the NUnit 3 unit-testing framework with selected extensions.

 **NUnit.Runners** ✓ by Charlie Poole, 3.44 v3.9.0

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 **NUnit** ✓

Version: Latest stable 3.11.0 ↕

Options

Description

NUnit features a fluent assert syntax, parameterized, generic and theory tests and is user-extensible.

This package includes the NUnit 3 framework assembly, which is referenced by your tests. You will need to install version 3 of the nunit3-console program or a third-party runner that supports NUnit

3º : Iniciar o código



```
namespace PalestraSelenium
{
    [TestClass]
    public class TestLogin
    {
        [TestMethod]
        public void FazLogin()
        {
            // Vai coisa aqui
        }
    }
}
```



```
namespace PalestraSelenium
{
    [TestClass]
    public class TestLogin
    {
        [TestMethod]
        public void FazLogin()
        {
            IWebDriver driver = new FirefoxDriver();
            driver.Navigate().GoToUrl("http://www.google.com");
            driver.Manage().Window.Maximize();
        }
    }
}
```

[TestMethod]

```
public void FazLogin()
```

```
{
```

```
    IWebDriver driver = new FirefoxDriver();
```

```
    driver.Navigate().GoToUrl("http://www.google.com");
```

```
    driver.Manage().Window.Maximize();
```

```
    var campo_busca = driver.FindElement(By.Name("q"));
```

```
    var confirma_botao = driver.FindElement(By.Name("btnK"));
```

```
    string palavra_procurar = "copa do mundo";
```

```
    campo_busca.SendKeys(palavra_procurar);
```

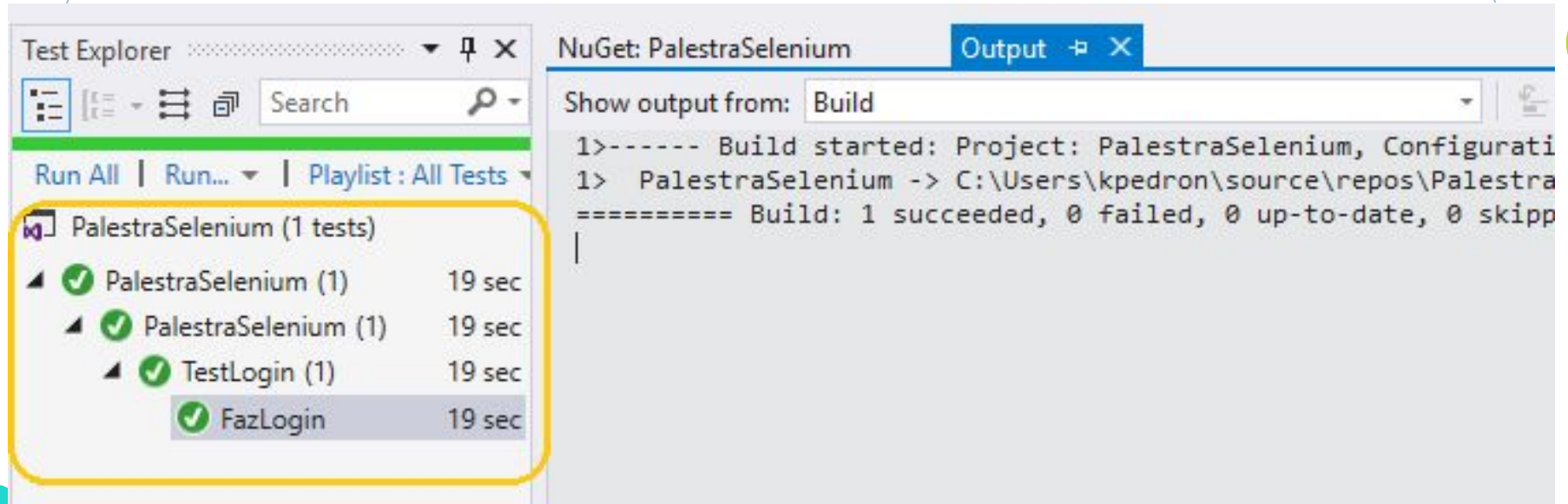
```
    confirma_botao.Click();
```

```
}
```

4º : Rodar o teste



Após Compilar (Ctrl B) :



The screenshot displays two windows from the Visual Studio IDE. The 'Test Explorer' window on the left shows a test suite 'PalestraSelenium' with four sub-items, all marked as passed with green checkmarks. The 'Output' window on the right shows the build process for 'PalestraSelenium', indicating a successful build.

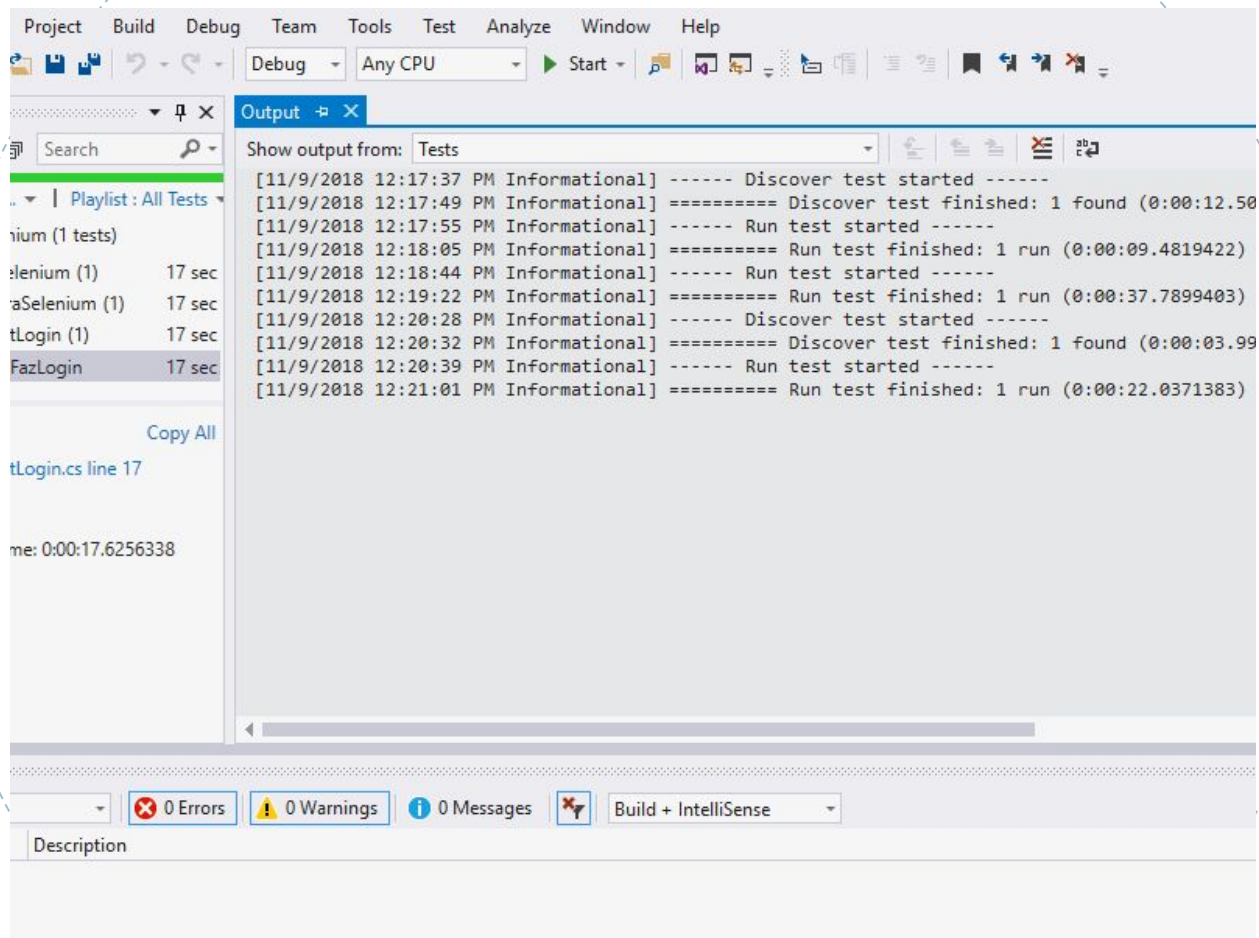
Test Explorer

- PalestraSelenium (1 tests)
 - ✓ PalestraSelenium (1) 19 sec
 - ✓ PalestraSelenium (1) 19 sec
 - ✓ TestLogin (1) 19 sec
 - ✓ FazLogin 19 sec

NuGet: PalestraSelenium Output

Show output from: Build

```
1>----- Build started: Project: PalestraSelenium, Configurati
1> PalestraSelenium -> C:\Users\kpedron\source\repos\Palestra
===== Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipp
|
```





5º : Incrementar funcionalidades

○ que mais irei utilizar

```
driver.FindElement(By.Id("teste00"));
```

```
driver.FindElement(By.XPath("teste01"));
```

```
driver.FindElement(By.CssSelector("teste02"));
```

```
driver.FindElement(By.PartialLinkText("teste03"));
```

O que mais irei utilizar

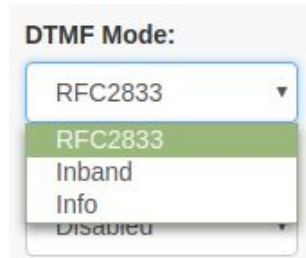
```
WebDriverWait wait =  
    new WebDriverWait(driver,  
        TimeSpan.FromSeconds(10));  
  
return wait.Until(Aqui vai alguma condicao);
```

O que mais irei utilizar

```
driver.close();  
driver.quit();  
driver.dispose();
```

```
var elemento = new SelectElement(element);  
elemento.SelectByValue("02");  
elemento.SelectByText("inband");
```

```
campo_busca.Clear();
```



○ que mais irei utilizar

```
public string PegaPrecoTotal()
{
    var preco_total = driver.FindElement(By.Id("preco_total"));
    return preco_total.Text;
}
```

```
[Test, Order(8)]
public void ConfirmaPrecos()
{
    PaginaPagamento pay = new PagamentoPage();
    Assert.AreEqual(pay.PegaPrecoTotal(), "R$ 125,00");
}
```



O que mais irei utilizar

```
public string PegaPrecoTotal()
{
    var preco_total = driver.FindElement(By.Id("preco_total"));
    return preco_total.Text;
}
```

OLA !
Eu sou do Nunit
:)

[Test, Order(8)]

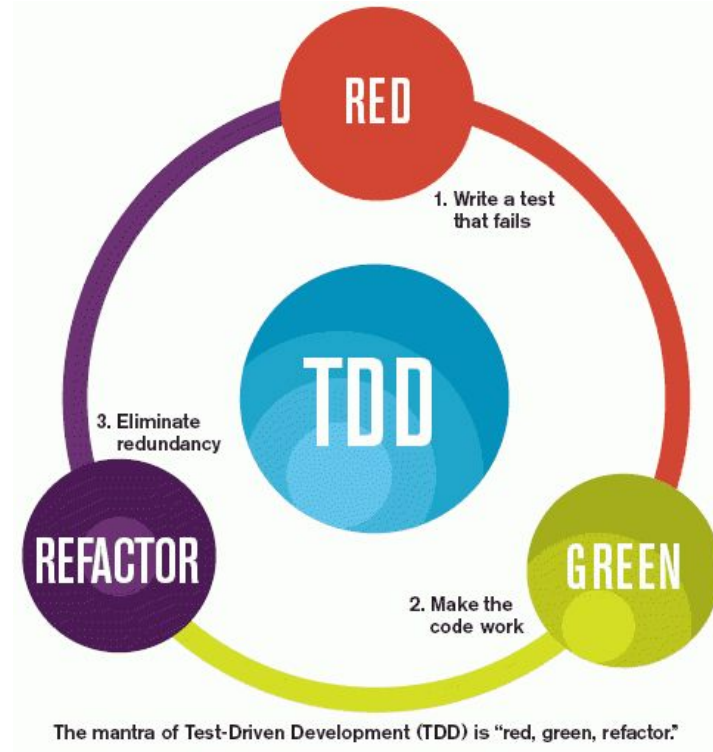
```
public void ConfirmaPrecos()
{
    PaginaPagamento pay = new PagamentoPage();
    Assert.AreEqual(pay.PegaPrecoTotal(), "R$ 125,00");
}
```

OLA !
Eu sou do Nunit
:)



Modelos de Trabalho Utilizados

Test Driven Development



Modelos de Trabalho Utilizados



Difere apenas pela elaboração de um teste de aceitação.
Esta etapa adicional envolve a criação da "user story".

Behavior Driven Development

Exemplo estória BDD

Dado: que sou uma correntista

E: tenho R\$ 500,00 de saldo na minha conta

Quando: eu solicitar um saque de R\$ 600,00

E: possuir valor de cheque especial disponível em minha conta

Então: devo receber o valor de R\$ 600,00

E: minha conta deve ficar com saldo em R\$ 100,00 negativos

Onde buscar ajuda ?



Specialize Automation

Selenium Conference

Execute Automation



<https://selenium-python.readthedocs.io/>

Juntos, somos mais



Thanks!



Alguma Pergunta?

pedron.ketlin@gmail.com