

Protractor/WebDriver/JS Setup Instructions

...

PLEASE DO BEFORE SESSION

Node.js

You need to have Node.js installed on your local machine.

- Minimum version v6.x

```
node -v # to find which versions you have
```

- If you don't have that, download the current version:
<https://nodejs.org/en/download>

protractor

Once node is installed, let's get protractor, by typing the following at your computer's command line:

```
npm install --global protractor
```

```
webdriver-manager update
```

The necessary packages will download from <https://www.npmjs.com>.

eslint

We are going to be linting our JavaScript code. This will flag suspicious syntax, help us adhere to best practices, and catch errors early.

```
npm install --global eslint
```

ESLint is a pluggable linting utility for JavaScript.

The necessary packages will download from <https://www.npmjs.com>.

IDE (Integrated Development Environment)

Install a local IDE. In this class we will use:

- WebStorm - Recommended. A 30 day trial is available at:

<https://www.jetbrains.com/webstorm/download/>

IF YOUR EVALUATION HAS EXPIRED, WE CAN EXTEND IT!

Email: training@zen.digital

- Please use the latest version of WebStorm
- Another good IDE is Visual Studio Code - Free at
<https://code.visualstudio.com>



Install Java

Check if Java 1.8 or higher is installed:

```
java -version
```

If not, either Install Java from:

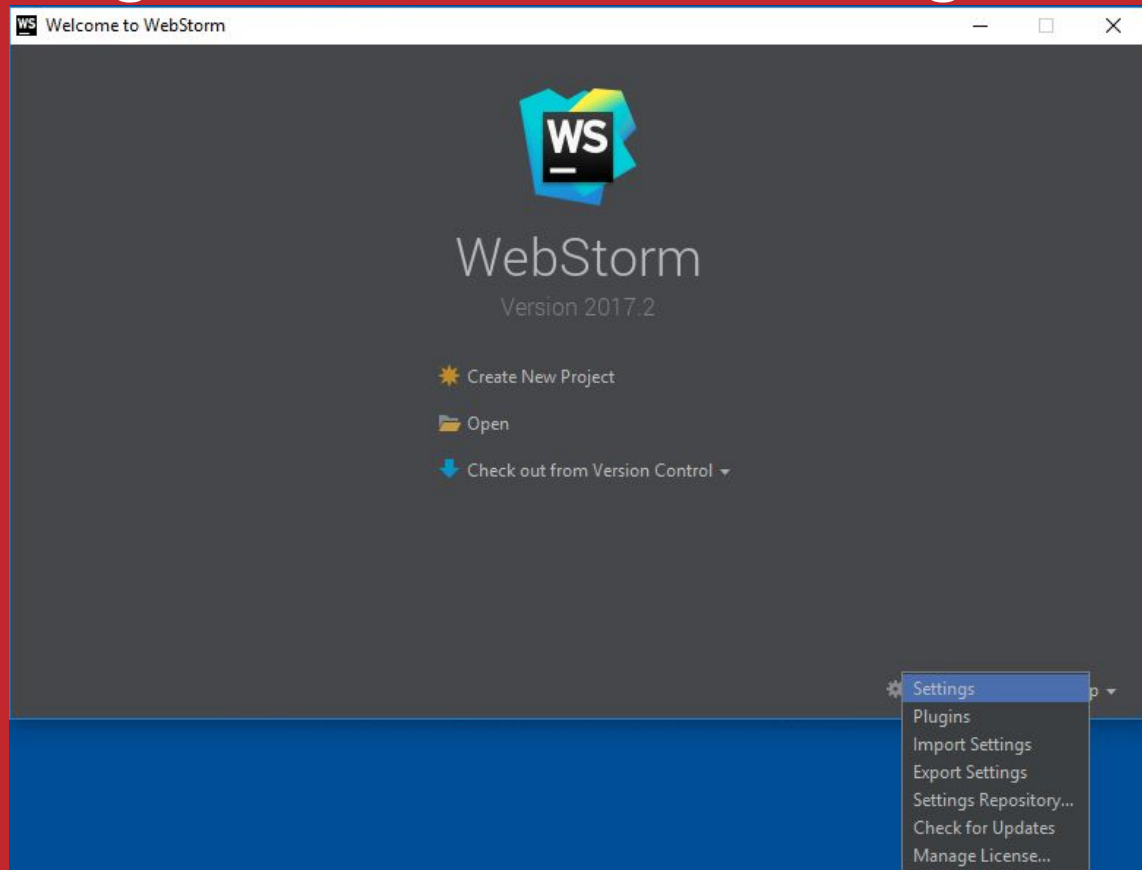
- <https://java.com/en/download/>

Chrome Browser

Please have and use the Chrome browser:

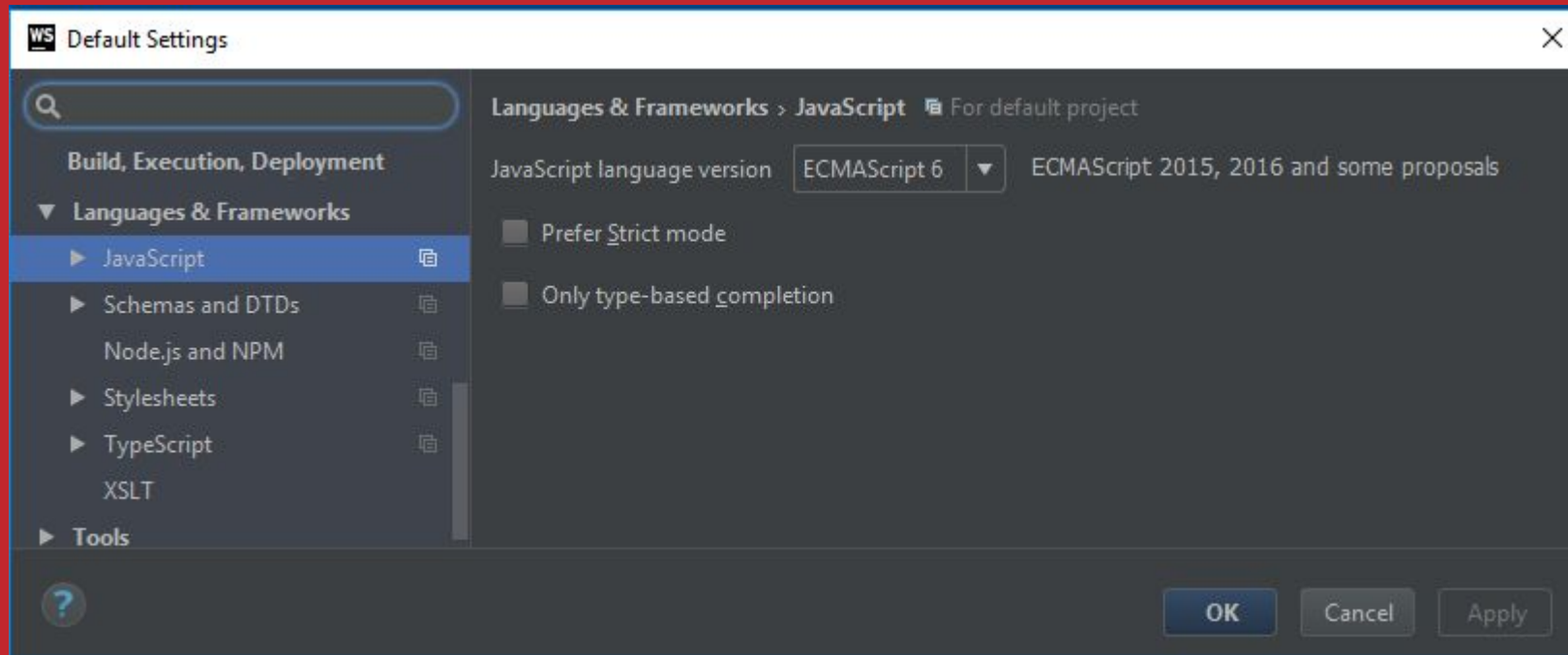
<https://www.google.com/chrome/browser/desktop/>

Change WebStorm Default Settings

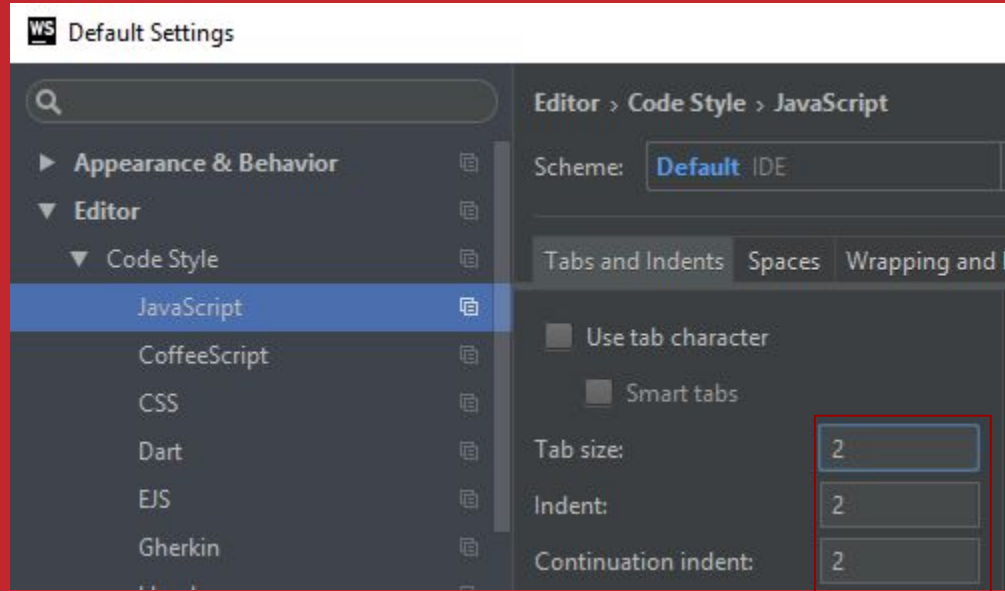


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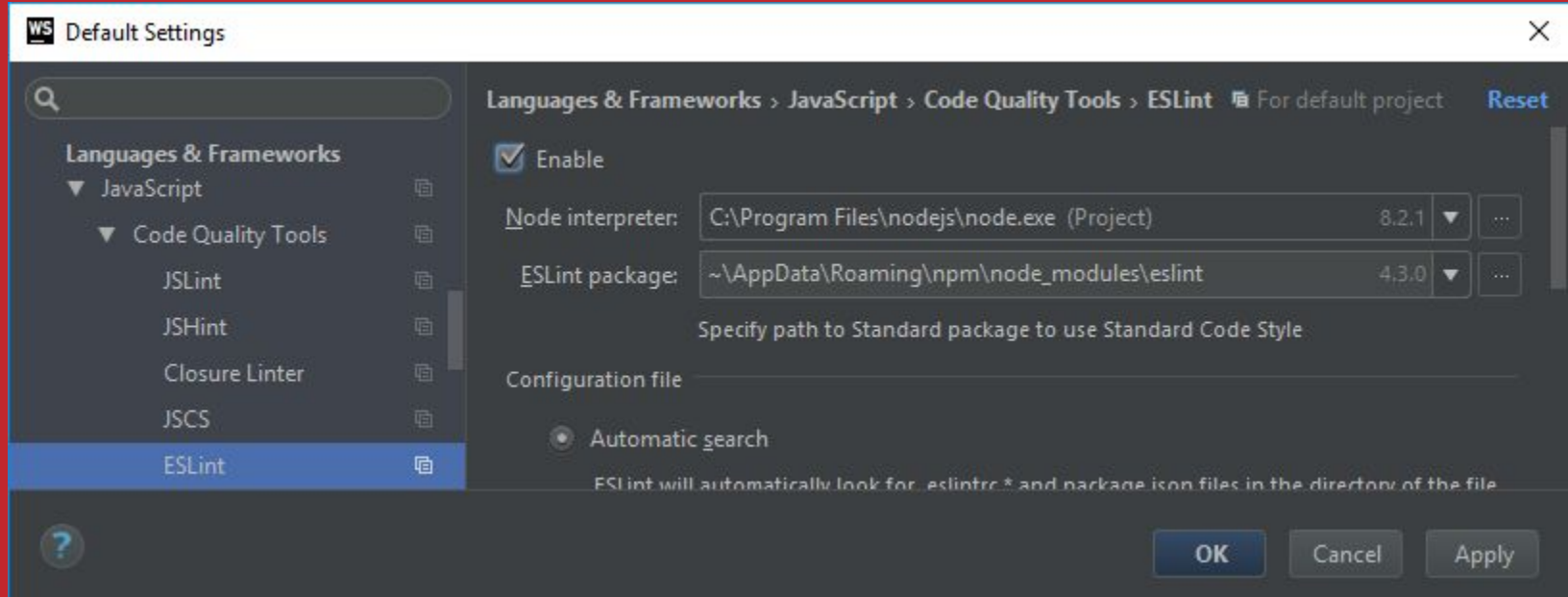
Set JavaScript version to ECMAScript 6



Set Editor > Code Style > JavaScript ... indent to 2

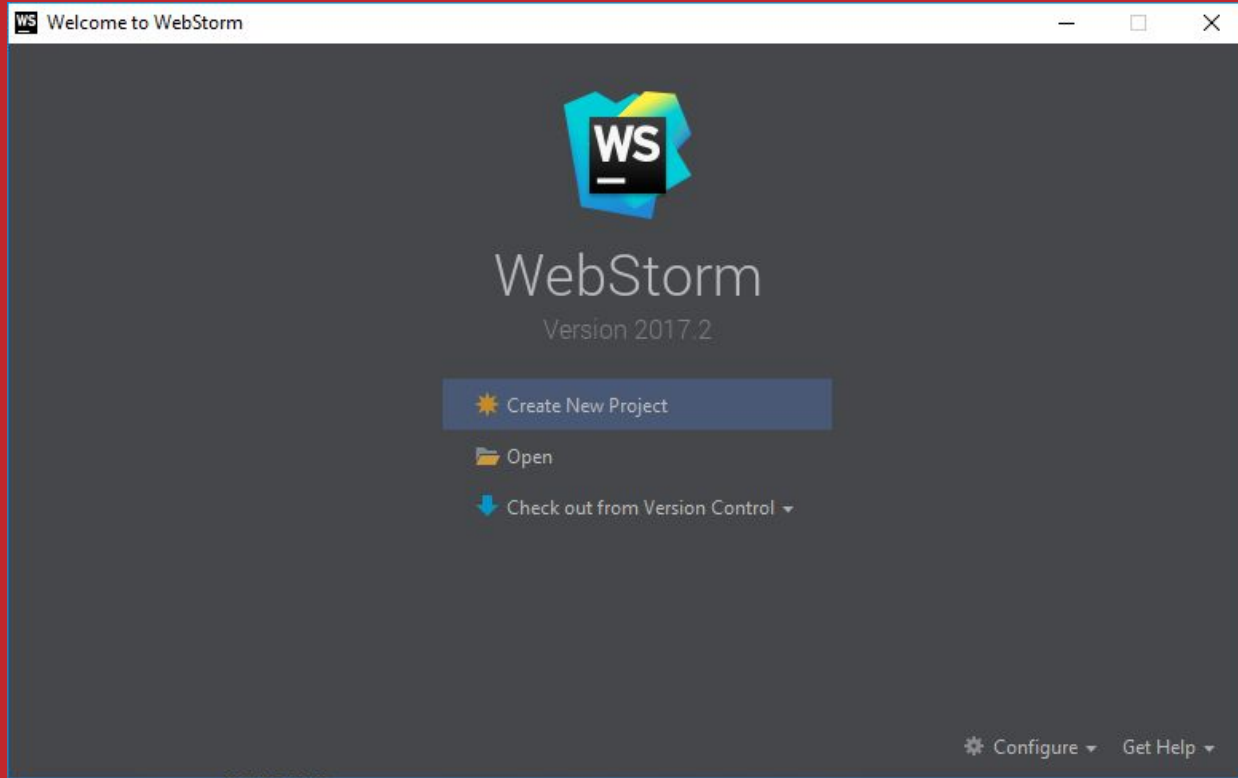


Enable ESLint

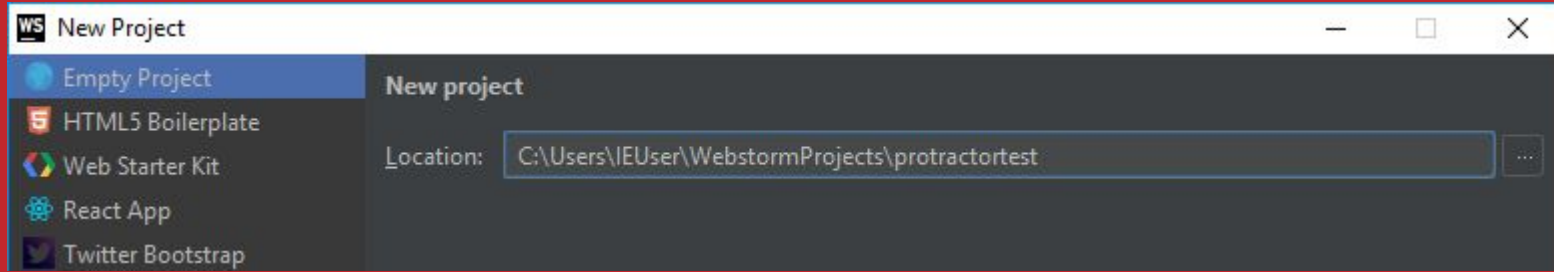


Click "OK"

Create New Project

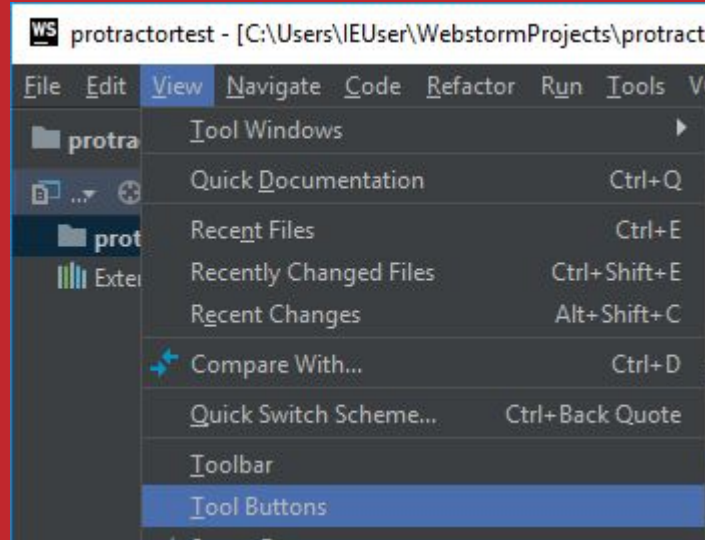


Create project named "protractortest"



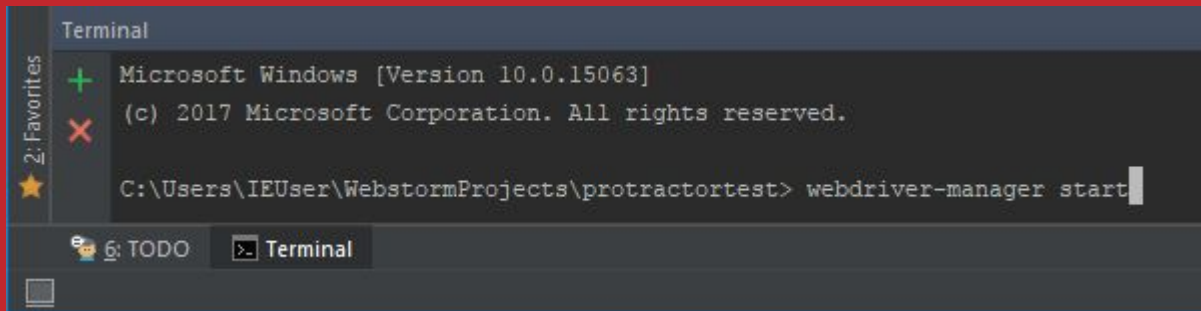
Click "Create"

Enable Tool Buttons & Toolbar



<--Toolbar too!!!

Open Terminal in WebStorm



```
Terminal
+ Microsoft Windows [Version 10.0.15063]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\Users\IEUser\WebstormProjects\protractortest> webdriver-manager start
```

Run:

```
webdriver-manager start
```

If Windows Firewall blocks it, "Allow access"

File > New > File ... todo.spec.js

```
describe('angularjs homepage todo list', function() {  
  it('should add a todo', function() {  
    browser.get('https://angularjs.org');
```

```
    element(by.model('todoList.todoText')).sendKeys('write first protractor test');  
    element(by.css('[value="add"]')).click();
```

```
  var todoList = element.all(by.repeater('todo in todoList.todos'));  
  expect(todoList.count()).toEqual(3);  
  expect(todoList.get(2).getText()).toEqual('write first protractor test');
```

```
  // You wrote your first test, cross it off the list  
  todoList.get(2).element(by.css('input')).click();  
  var completedAmount = element.all(by.css('.done-true'));  
  expect(completedAmount.count()).toEqual(2);  
});  
});
```

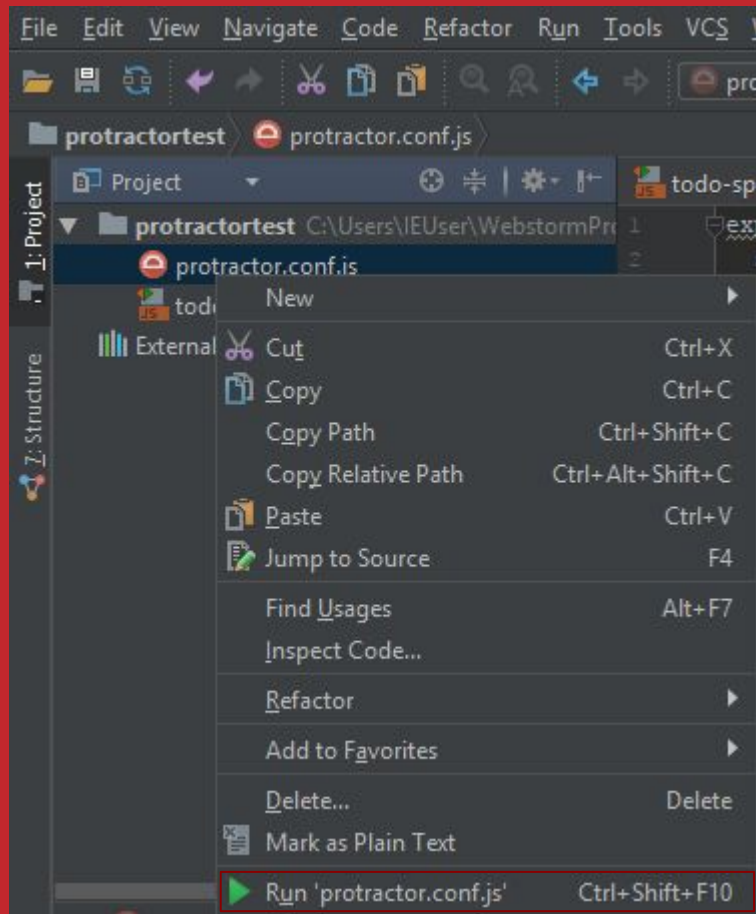

File > New > File ... protractor.conf.js

```
exports.config = {  
  seleniumAddress: 'http://localhost:4444/wd/hub',  
  specs: ['todo.spec.js']  
};
```

Right click the new file and select

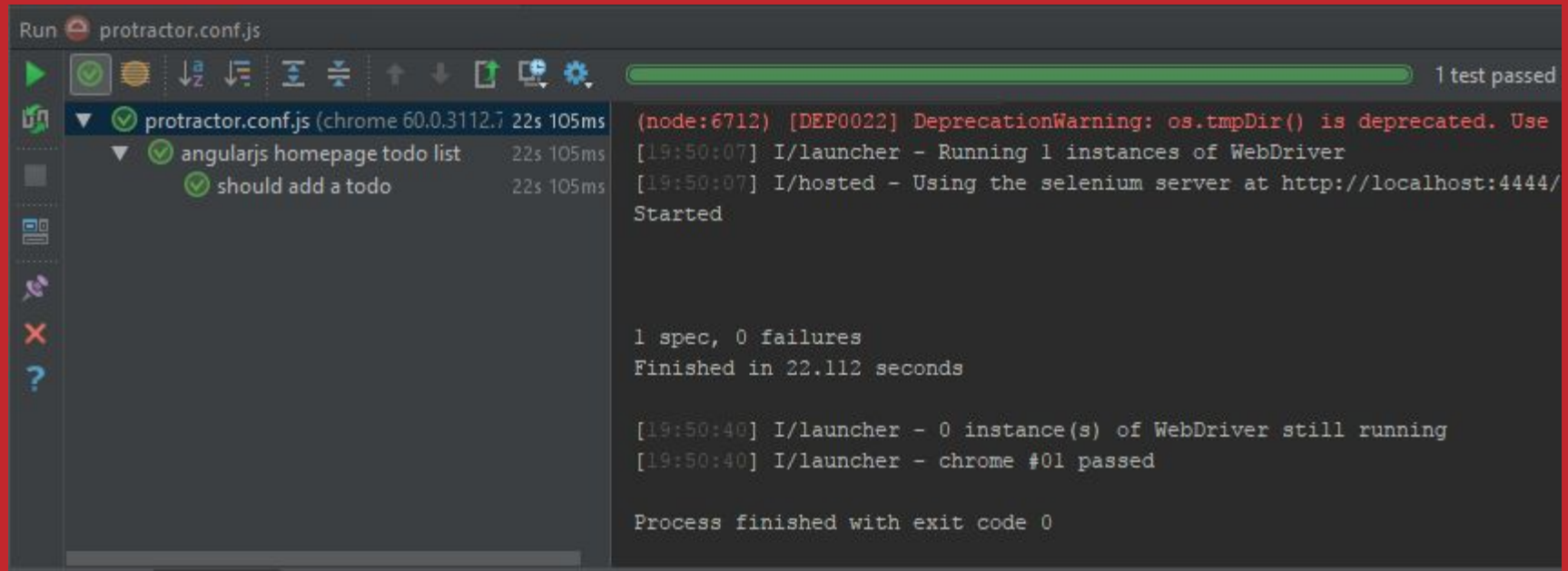
"Run protractor.conf.js"

- A Chrome browser should launch
- You will see the AngularJS website
- A new todo will be created
- The test should pass



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WebStorm Has a GUI for Protractor Output!



`.eslintrc` will be discussed in class!

```
{  
  "env": {  
    "protractor": true,  
    "jasmine": true,  
    "browser": true,  
    "es6": true,  
    "node": true  
  },  
  "extends": "eslint:recommended"  
}
```