THE UNIVERSITY *of*
NEW MEXICO

CS 105: Introduction to Computer Programming

Creating a JavaScript program using WebStorm

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2/6/2018

WebStorm

The smartest JavaScript IDE

Lightweight yet powerful IDE, perfectly equipped for complex client-side development and server-side development with Node.js

DOWNLOAD

Free 30-day trial

Khan Window ≠ Complete Program

■ The Khan Academy videos let you edit the JavaScript code to create your own cool images, animations and more.

■ However, the code in the Khan Academy window is NOT a full program: it only works inside Khan Academy's window.

■ For your homework assignments, you need to turn in a complete webpage that does not use the Khan Academy window.

■ Khan Academy uses JavaScript together with a powerful JavaScript library called "***Processing***".

■ In order for your code to work, you will need to have a copy of `p5.js` *in the same directory* as your `.html` file.

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WebStorm IDE

- WebStorm an Integrated Development Environment (IDE) for writing JavaScript and HTML programs.

```
52   var foulLineX = 600;
53   var foul = false;
54   textSize(100);
55
56   //==============================================
57   // This function is called 60 times per second.
58   //==============================================
59   draw = function ()
60   {
61     background(0, 150, 0);
62
63     //Draw Foul Line
64     stroke(150, 0, 0);
65     line(foulLineX,0,foulLineX,canvasHeight);
```

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Can I use a different IDE?

C⊗DEPEN

- Anyone who already knows Sublime, or another IDE should skip CS-105 and take CS-152. CS-105 is for noobs.

- If you are not already an expert in another IDE, then NO.

- The reason is simply that I will be teaching WebStorm. I will be showing how to create projects, use the debugger, set formatting, use shortcuts, ...

- These skills can all be done in different IDEs, but the procedures are different. I do not want the lab instructors nor myself to answer questions to some students that are totally pointless to other students.

- The course is a group learning experience so lets all use the same IDE.

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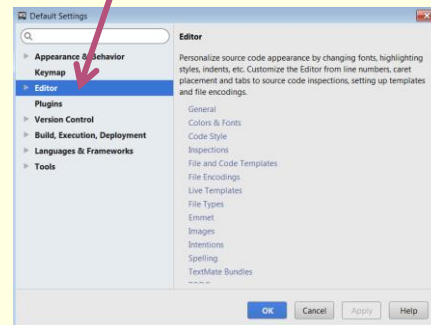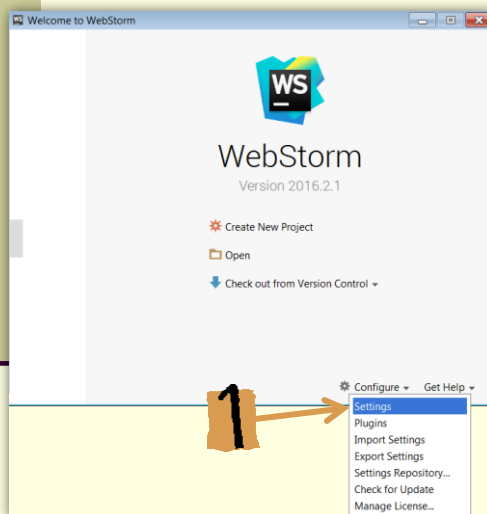# WebStorm Download, Install, Register

- Download WebStorm:
  https://www.jetbrains.com/webstorm/

- The above is a Free 30-day trial. Students can get a free multi-year version by using an e-mail ending in .edu:
  https://www.jetbrains.com/shop/eform/students

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Starting and Configuring WebStorm

6

Set { } Format

Creating a Webstorm Project

If WebStorm already has an open project, close it.

Create a Project Directory

Note the *path*.

Your project folder
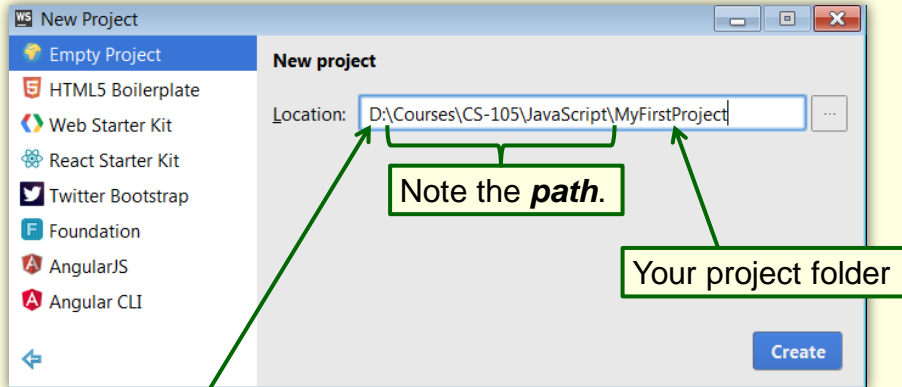
If you are in a lab, select your USB drive.

Add an HTML File to Your Project

Double-click on the project folder to open.

Right-click on the project folder to open the menu.

Create a new HTML file in the project directory.
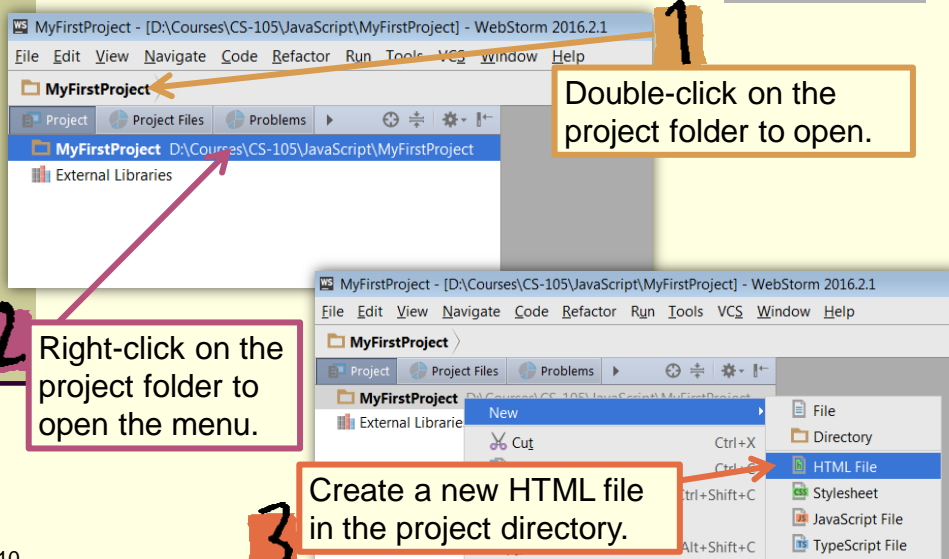
View of WebStorm With New .html File

HomePage.html where it belongs: inside the **MyFirstProject** folder.

Drive and folder *path* to your project folder.
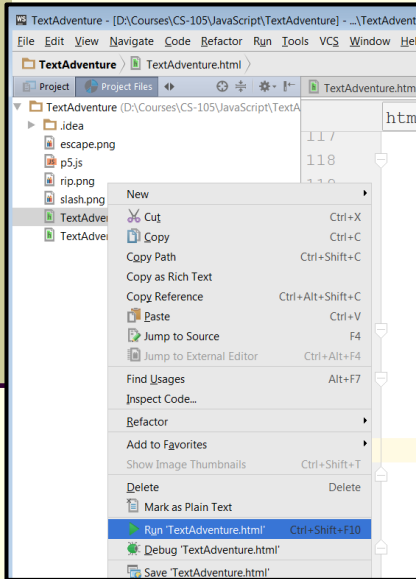
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Creating a `.zip` Archive for Turn-in

Right-click on file or folder.

Select:
Send to → Compressed (zipped) folder

You can also zip a whole project folder. Do this when your project contains many source, image and/or sound files.

WebStorm & chrome

If chrome is your system's ***default browser***, you can run a .html file in chrome from WebStorm, by right-clicking the file and selecting ▶ **Run**

However, if you do ***NOT*** want chrome as your system's ***default browser***, you can still tell WebStorm to use chrome...... (see next slide) ➡ *NEXT*

Setting Webstorm's Default Browser

You only need to do this if chrome is NOT your system's default browser.

Expand "Tools". Then Select "Web Browsers"

Drag Chrome to the top of the list.

Change "System default" to "First listed"