Introduction to Programming

Class 1, 5 January 2017

Jack Phillips < jack_phillips@asl.org >

Goals for Today's Class

Goal 1: You will understand that programming is for you (and everyone else).

Goal 2: You will know the expectations of this class.

Goal 3: You will know a little bit about the people in this class.

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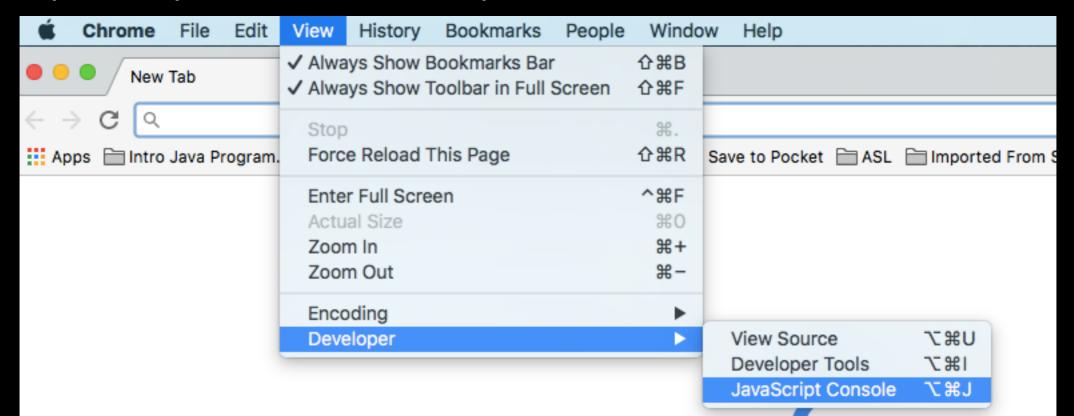
Line Up / Pair Up

- 1. Line up by birthday
- 2. Count off by 2 and pair up
- 3. Sit with your partner. Computers closed.
- 4. Share your name and grade.
- 5. Share a movie you have seen three or more times.

Goal 1: You will understand that programming is for you (and everyone else).

Hack the Web

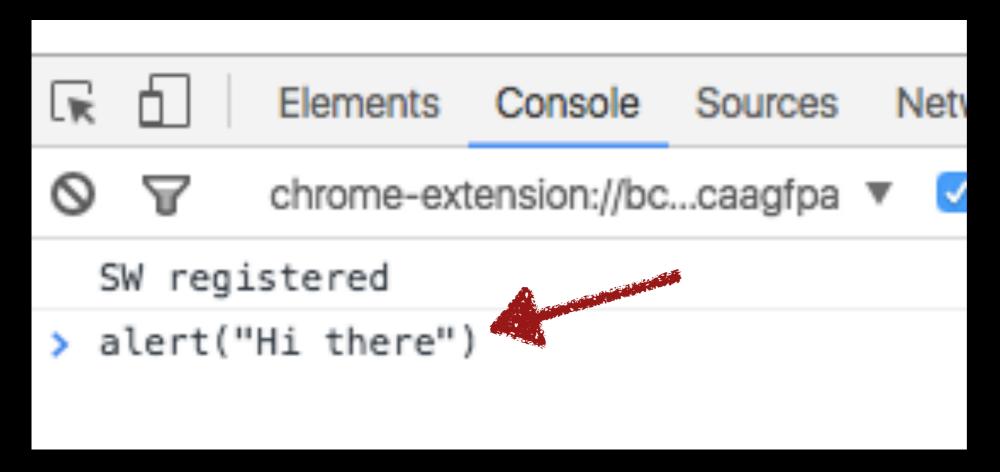
- 1. Open one computer per pair.
- 2. Open up chrome browser. (If neither of you have it, open safari and download).
- 3. Open up the JavaScript Console (Cmd+Alt+J).



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Hack the Web

4. Type the following into the console, followed by return

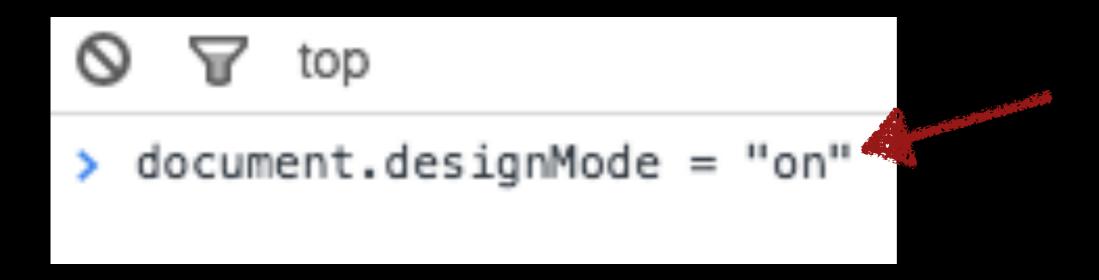


5. Change parts of the expression. Play around! What do you notice?

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Hack the Web

- 6. Go to the URL: https://en.wikipedia.org/wiki/The_American_School_in_London
- 7. Type the following into the console, followed by return



8. Hack the page. What can you change? What happens if designMode is equal to "off"?

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Hack the Web

- 7. Type the following into the console, followed by return
- > window.open("http://www.asl.org")
- 8. Open the JavaScript Console in the new page.
- 9. Scroll down the page until you see the Core Values



Goal 1: You will understand that programming is for you (and everyone else).

Hack the Web

10. Type the following into the console, followed by return



missionbuttons.innerHTML = ''

- 11. What did you notice? Can you find another image URL to further the hack?
- 12. The Core Values are identified with "missionbuttons". The navigation bar at the top is called "content1313". Can you hack the nav bar?

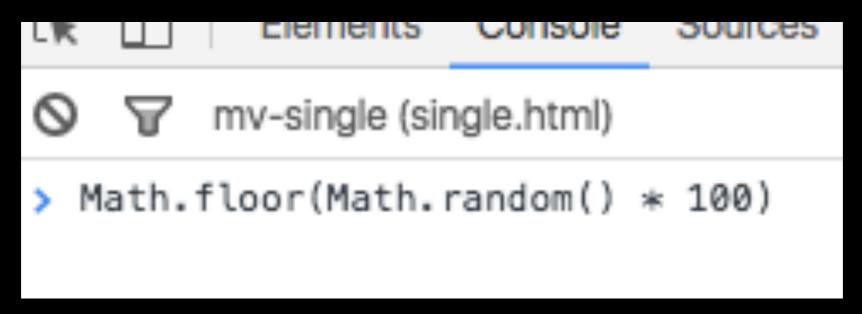
Goal 1: You will understand that programming is for you (and everyone else).

Congratulations! You can program.

Goal 3: You will know a little bit about the people in this class.

Line Up / Pair Up JavaScript Style

1. Each person should execute the following in the console. Remember your number.



- 2. Line up in ascending order.
- 3. Count off by 2 and pair up
- 4. Sit with your partner. Computers closed.

Goal 3: You will know a little bit about the people in this class.

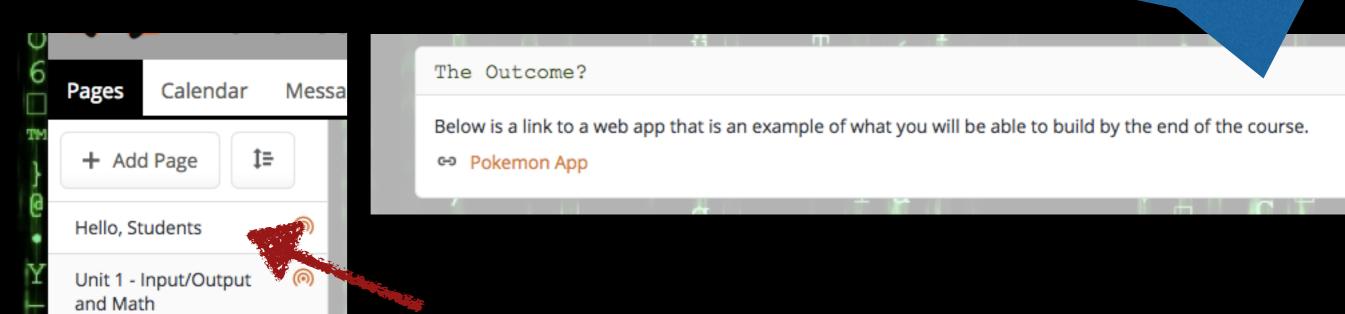
Line Up / Pair Up JavaScript Style

- 5. Interview each other for the following information
 - Why were you named your name?
 - Favorite app
 - Programming experience
 - 0 No experience
 - 1 Some experience
 - 2 A lot of experience
- 6. Share with the class for your partner.
 - Name
 - Grade
 - Favorite app
 - Programming experience
 - 0 No experience
 - 1 Some experience
 - 2 A lot of experience

Goal 1: You will understand that programming is for you (and everyone else).

Where we're headed

1. On one computer, go to Haiku -> Hello, Students -> Pokemon App



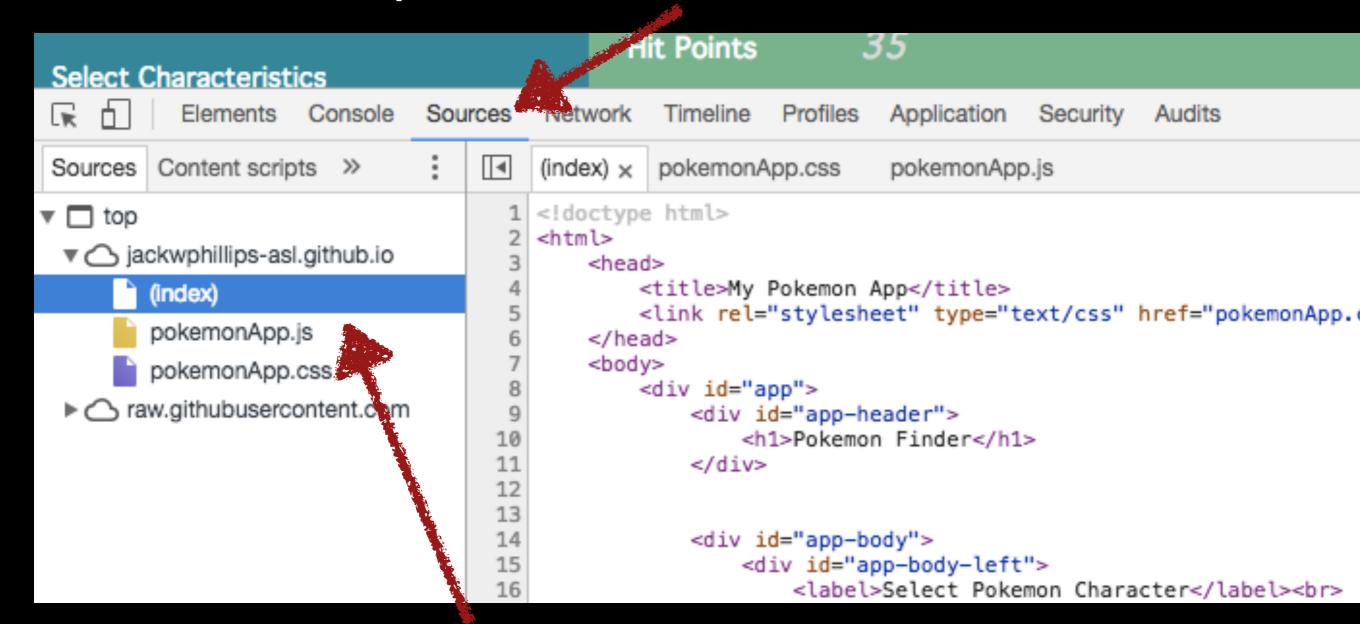
2. Play around with the app.

Goal 1: You will understand that programming is for you (and everyone else).

Where we're headed

1. Go to the JavaScript console.

2. Go to the "Sources" tab.



3. Explore "index", pokemonApp.js, pokemonApp.css

Goal 1: You will understand that programming is for you (and everyone else).

The Command Line

1. In Spotlight, open Terminal.app



```
igackp12 — -bash — 80×24

Last login: Thu Jan 5 05:18:08 on ttys001

$
```

Goal 1: You will understand that programming is for you (and everyone else).

BIG WORD(S) ALERT

The Command Line

An application that allows you to control your computer by giving it text commands.

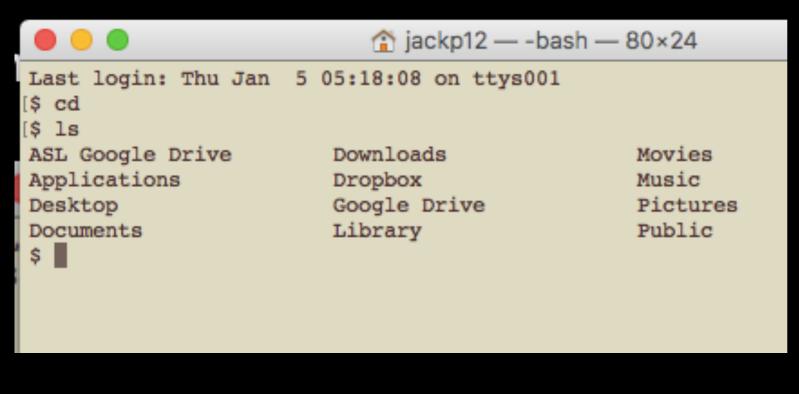
Goal 1: You will understand that programming is for you (and eve

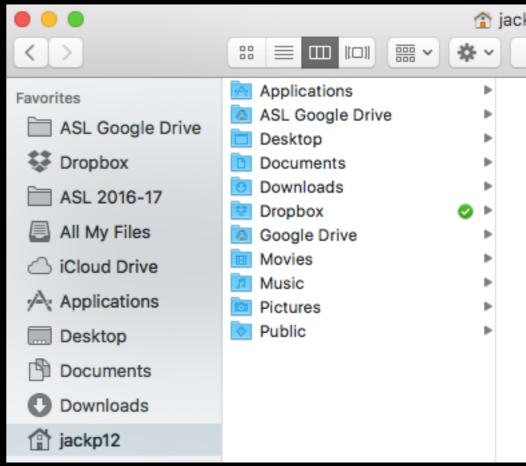
Your home directory (aka folder)

Pilot,

Command Line

Finder



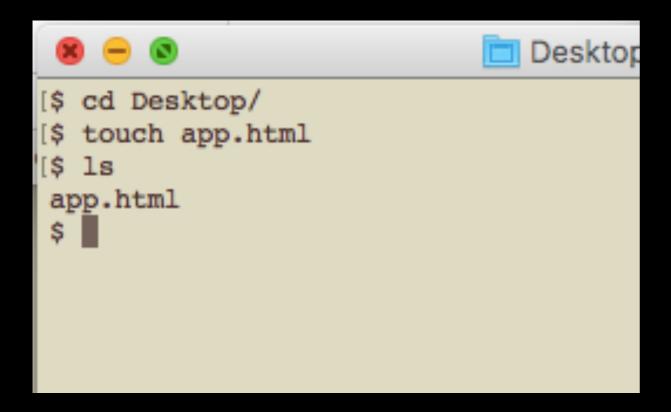




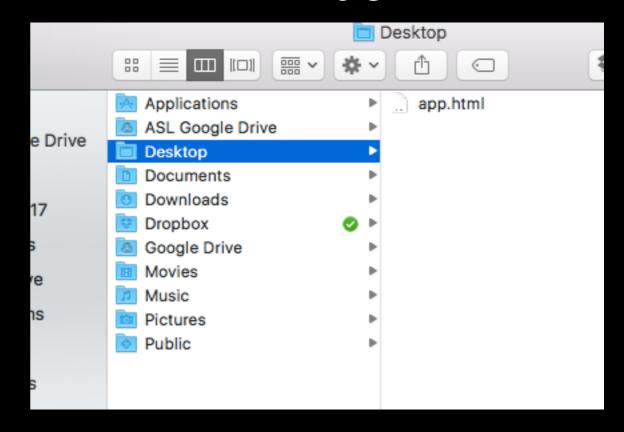
Goal 1: You will understand that programming is for you (and eve

Create a new file on your desktop called app.htn.

Command Line



Finder

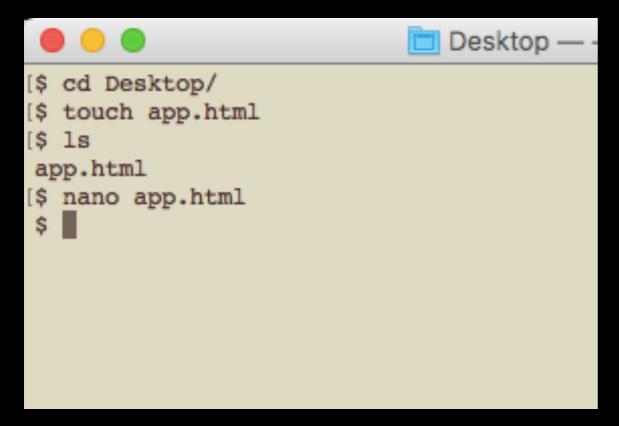


Pilot

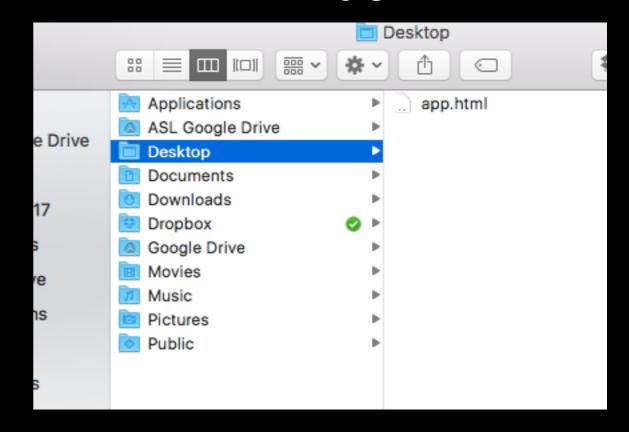
Goal 1: You will understand that programming is for you (and ever

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Command Line



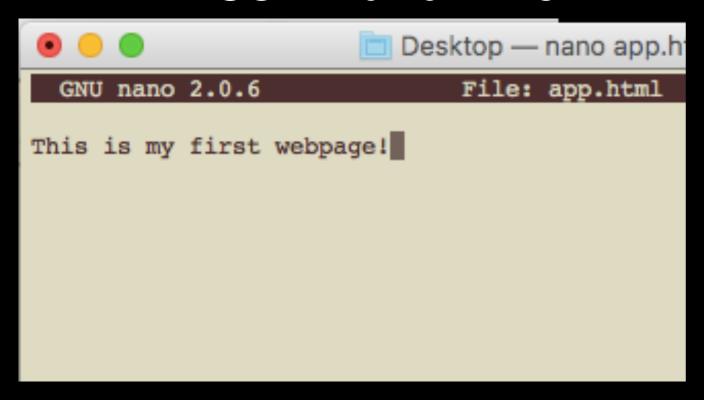
Finder



Goal 1: You will understand that programming is for you (and ever

Edit the file

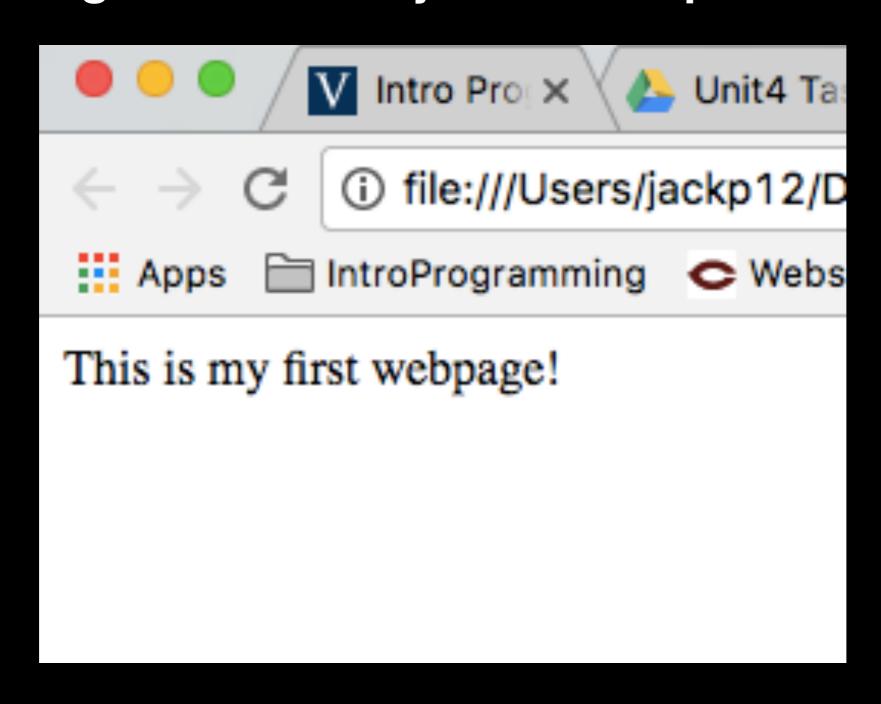
Command Line



- 1. Type in text.
- 2. Press Ctrl+X to exit
- 3. Type "Y" for yes
- 4. Press return to save

Goal 1: You will understand that programming is for you (and ever

Drag the file from your desktop to Chrome.

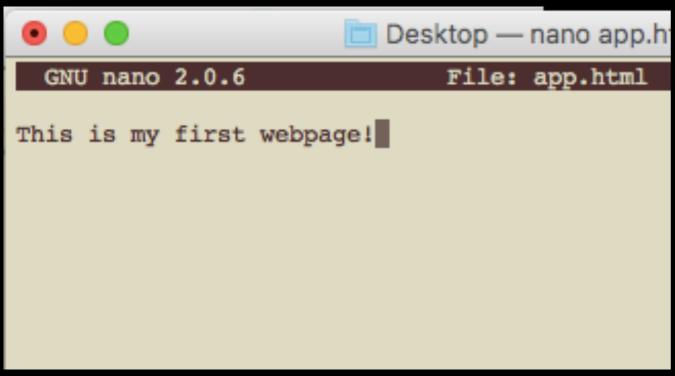


Pilotz

Goal 1: You will understand that programming is for you (and ever

Change the text on the webpage

Command Line

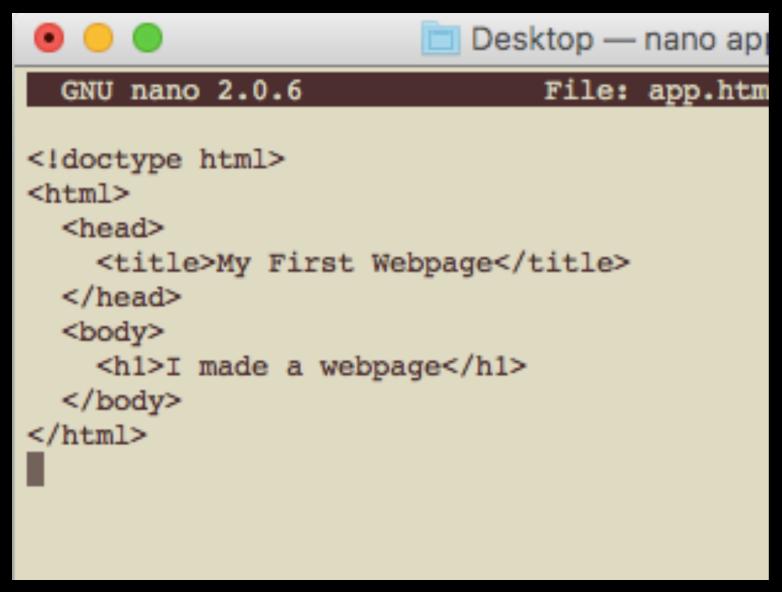


- 1. Type in different text.
- 2. Press Ctrl+X to exit
- 3. Type "Y" for yes
- 4. Press return to save
- 5. Reload the page in Chrome

Goal 1: You will understand that programming is for you (and ever

Make a proper webpage

Command Line



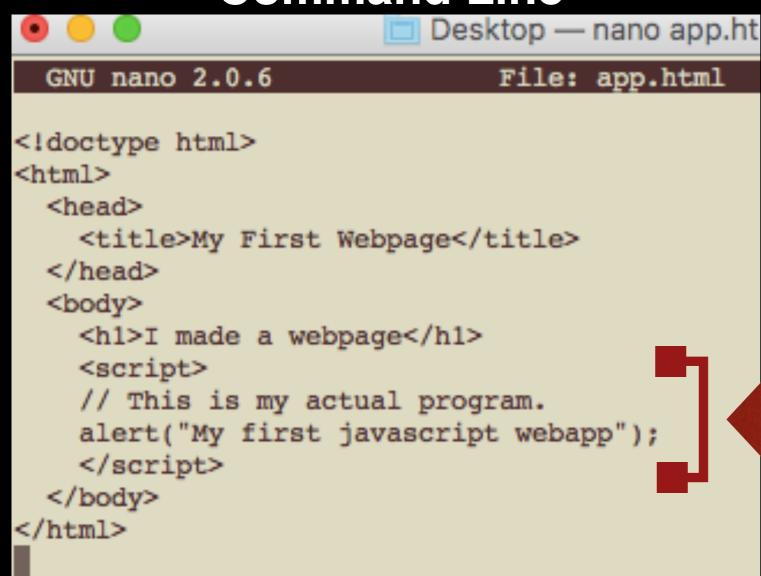
- Type in different text.
- 2. Press Ctrl+X to exit
- 3. Type "Y" for yes
- 4. Press return to save
- 5. Reload the page in Chrome



Goal 1: You will understand that programming is for you (and ever

Make a proper webpage

Command Line



- 1. Type in different text.
- 2. Press Ctrl+X to exit
- 3. Type "Y" for yes
- 4. Press return to save
- 5. Reload the page in Chrome

Your code

Goal 2: You will know the expectations of this class.

- 1. No experience required.
- 2. You will learn to program.
- 3. Not a lot of homework assigned, but the successful students put in the time.
- 4. Everyone can get an A.
- 5. This class will be fun
- 6. No homework tonight.