

Week_22

Welcome to Coding 4 Kids
on this 26th day of the 2nd month
of the 2024 year of our Lord!

PRAY!



Week_22_Beginner TouchTypingTest

Managed by Arthur Alton

[Overview](#)

[Students](#)

[Instructors](#)

[Results](#)



Week_22_Beginner TouchTypingTest ●



Students will practice typing with the little and 4th fingers, practicing their touch typing skills.

Test active

Feb 26, 2024 - Mar 31, 2024



Week_22_Intermediate Touch Typing Test

Managed by Arthur Alton

Overview

Students

Instructors

Results



Week_22_Intermediate Touch Typing Test ●



Students will begin with a warmup of the home row of keys followed by a bible verse

Test active

Feb 26, 2024 - Mar 31, 2024

Today we will begin class with a review of what we learned last week.

Numbering Systems

- (1) The tally numbering system...
 - a. What is it...
 - b. When should we use it?
 - c. Is it good for math?

|||| ||||

10
+ 20

30

(2) we know the Decimal numbering system
(0-9) we use this for counting, math, and more...

(3) what about Octal, Hexadecimal, and Binary...

$13_{\text{octal}} = \text{eleven}$

$100_{\text{binary}} = \text{four}$

Here is a short video:

<http://www.youtube.com/watch?v=2Z03p3yhGmk>

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Next we have a handout and will work together to answer
The questions...

Value Decimal(Base 10) **Octal**(Base 8) **Hex**(Base 16) **Binary**(Base 2)

Zero	0	0	0	0
One	1	1	1	1
Two	2	2	2	
Three	3	3		
Four	4	4		
Five	5			
Six	6			
Seven	7			
Eight	8			
Nine	9			
Ten	10			
Eleven	11			
Twelve	12			
Thirteen	13			
Fourteen	14			
Fifteen	15			
Sixteen	16			
Seventeen	17			
Eighteen	18			
Nineteen	19			
Twenty	20			
Twenty One	21			

Twenty Two	22			
Twenty Three	23			
Twenty Four	24			
Twenty Five	25			
Twenty Six	26			
Twenty Seven	27			
Twenty Eight	28			
Twenty Nine	29			
Thirty	30			
Thirty One	31			
Thirty Two	32			
Thirty Three	33			

Tally Numbering System Quiz

T/F Circle the correct answer

1. (T / F) Tally numbering system only has 2 characters | and /.
2. (T / F) Tally numbering system is good for math like +(addition) and -(subtraction).
3. (T / F) Tally numbering system is good for counting, like the number of goals at a soccer game.

Fill in the answer:

What is the tally for the values 5: _____; 9: _____; 17: _____

Octal Numbering System Quiz

T/F Circle the correct answer

T/F Circle the correct answer

1. (T / F) Octal numbering system only has digits 0, 1, 2, 3, 4, 5, 6, & 7?
2. (T / F) Octal numbering system never has the digit 8 or 9?
3. (T / F) Octal for the **value eight** equals “One Zero”, 10_{octal}; we do not say ten.
4. (T / F) Octal numbering system does not really exist, it was made up by instructor Coach Arthur.

Fill in the answer: Octal Numbers:

What is the Octal for the values six: _____; nine: _____; fifteen: _____; sixteen: _____;

Hexadecimal Numbering System Quiz

T/F Circle the correct answer

1. (T / F) Hexadecimal numbering system only has both digits (0-9) & letters(A-F)?
2. (T / F) Hexadecimal numbering system has sixteen digits (0-9) and letters(A-F)?
3. (T / F) Hexadecimal for the **value sixteen** equals One Zero, 10_{hexadecimal} ?

Fill in the answer: Hexadecimal Numbers:

What is the Hexadecimal for the values nine: _____; eleven: _____; fifteen: _____;

sixteen: _____; eighteen: _____; thirty two: _____;

Binary Numbering System Quiz

T/F Circle the correct answer

1. (T / F) Binary numbering system only has digits (0-9) ?
2. (T / F) Binary numbering system is useful for computers, since a wire can have Yes or no Voltage(0)?
3. (T / F) Binary numbering system can represent any number?
4. (T / F) Binary numbering system is based upon the powers of 2?

Fill in the answer: Binary Numbers:

What is the Binary for the values one: _____; two: _____; three: _____; Four: _____;

seven: _____; eight: _____; nine: _____; Fifteen: _____; Sixteen: _____

What Is Javascript?

If you've made it this far in the book, you no doubt already know that JavaScript is the programming language that adds interactivity and custom behaviors to our sites. It is a **client-side scripting language** which means it runs on

es voltage(1)

side scripting language, which means it runs on the user's machine and not on the server, as other web programming languages such as PHP and Ruby do. That means JavaScript (and the way we use it) is reliant on the browser's capabilities and settings. It may not even be available at all, either because the user has chosen to turn it off or because the device doesn't support it, which good developers keep in mind and plan for. JavaScript is also what is known as a **dynamic** and **loosely typed** programming language.

First, I want to establish that JavaScript is kind of misunderstood.

What it isn't

Right off the bat, the name is pretty confusing. Despite its name, JavaScript has nothing to do with Java. It was created by Brendan Eich at Netscape in 1995 and originally named "LiveScript." But Java was all the rage around that time, so for the sake of marketing, "LiveScript" became "JavaScript." Or just "JS," if you want to sound as cool as one possibly can while talking about JavaScript.

What it is

Now we know what JavaScript isn't: it isn't related to Java, and it isn't a mustachioed villain

lurking within your browser, wringing its hands and waiting to alert you to “hot singles in your area.” Let’s talk more about what JavaScript *is*. JavaScript is a lightweight but incredibly powerful scripting language. We most frequently encounter it through our browsers, but JavaScript has snuck into everything from native applications to PDFs to ebooks. Even web servers themselves can be powered by JavaScript.

As a [dynamic programming language](#), JavaScript doesn’t need to be run through any form of compiler that interprets our human-readable code into something the browser can understand. The browser effectively reads the code the same way we do and interprets it on the fly.

JavaScript is also [loosely typed](#). All this means is that we don’t necessarily have to tell JavaScript what a variable is. If we’re setting a variable to a value of 5, we don’t have to programmatically specify that variable as a number. As you may have noted, 5 is already a number, and JavaScript recognizes it as such.

[What Javascript can do](#)

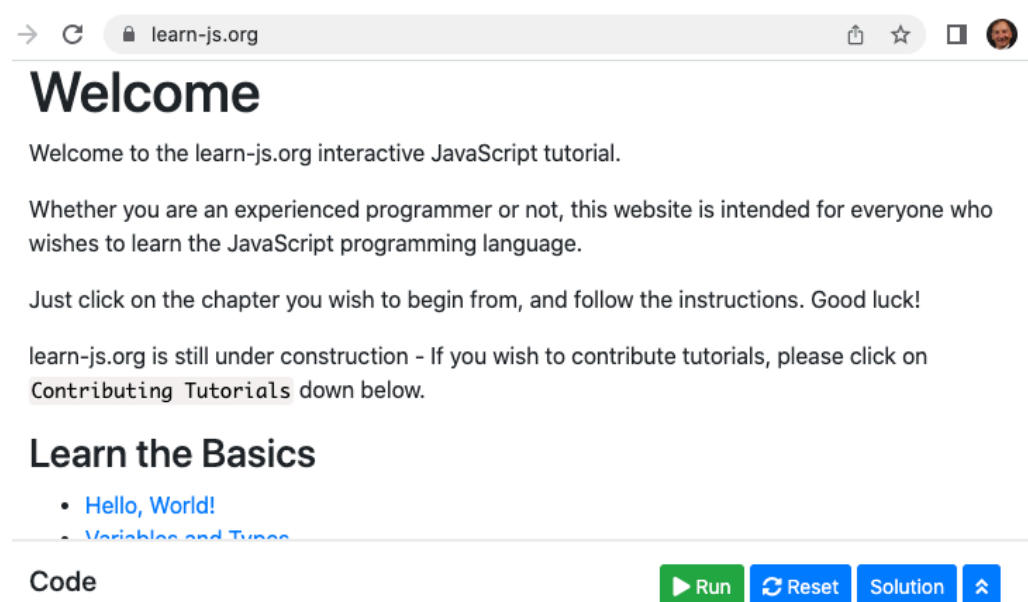
Most commonly we’ll encounter JavaScript as a way to add interactivity to a page. Where the “structural” layer of a page is our markup and the “presentational” layer of a page is made up of CSS, the third “behavioral” layer is made up

of our JavaScript. All of the elements, attributes, and text on a web page can be accessed by scripts using the DOM (Document Object Model)

In short, JavaScript allows you to create highly responsive interfaces that improve the user experience and provide dynamic functionality, without waiting for the server to load up a new page.

Next we will launch a browser and go to the URL (Universal Resource Locator) -

www.Learn-js.org



→ ↻ learn-js.org 🔒 ☆ 🏠 👤

Welcome

Welcome to the learn-js.org interactive JavaScript tutorial.

Whether you are an experienced programmer or not, this website is intended for everyone who wishes to learn the JavaScript programming language.

Just click on the chapter you wish to begin from, and follow the instructions. Good luck!

learn-js.org is still under construction - If you wish to contribute tutorials, please click on [Contributing Tutorials](#) down below.

Learn the Basics

- [Hello, World!](#)
- [Variables and Types](#)

Code ▶ Run ↺ Reset Solution ⬆

