Cheatography

Basic Programming Cheat Sheet by tegdsd12 via cheatography.com/121770/cs/22409/

Variable Instantiation		
let variableName = value		
let	required keyword to initialize a variable	
variab- leName	arbitrary name, no spacing, must contain letter, no punctuaction, cannot use reserved keywords, camel-cased	
=	assign	
value	any data type	
camel- case	no spacing between words, every word except the first is capita- lized e.g a red balloon -> aRedBalloon	

the value assigned can be referenced in later parts of the program through variableName.

Only one value can be assigned to one variable, i.e one instantiation per variable, if let var1 = 'string' previously, cannot let var1 = 2 again later in the code

Operators	
+	plus
-	minus
*	multiply
/	divide (5/2 = 2.5)
%	remainder (5 % 2 = 1)
>	more than
<	less than
>=	more than or equals
<=	less than or equals
i++	i = i + 1
i	i = i - 1
==	equal value
===	equal value and data type
i (+,-,*,/) = value	shorthand for i = i + value, i= i - value, etc

Data Type

Data Types		
String	'string'	Anything in quotes. If there are quotations inside the string, use a different type of quotation (' and ")
Number	1, 23, 400	number
Boolean	true, false	true/false value
Character	'a', '2'	single input
Undefined	let variable	variable instantiated but not assigned a value
Null		variable not define- d(instantiated)

Array

Array ['string', 2, true]

- initialized with square brackets

- can contain all data types, including arrays and objects

- ordered list of values, starting from index 0 to refer to first element

- get item in array by referring to its index (array[0] gets 'string', array[1] gets 2)

Object

Object	let object = { key1: value1, key2: value2 }	
similar to array, but replace index with		
key(string)		
can contain all data types, including arrays		
and objects		
refer to objects in 2 ways		
1. object.key1 gets value1		
2. object['key2'] gets value2. when using		

square brackets, put the key in string format

Function Example

let num1 = 1; let num2 = 20; let result = addTogether(num1, num2);

num1 and num2 becomes firstNum and secondNum respectively if no return value, calculations done in the function cannot be carried out of the

Loops		
if	if condition is true, execute block	
else	must be used with if , executes if if condition is false	
if else	additional if statements after the first if statement	
while	while condition is true, keep executing block	
for	for (let i = 0; i< 10; i++), a condensed while loop	
for	for (let number of numbers)	
for	for (let number in numbers)	
 a condensed while loop for (let i = 0; i< 10; i++) {} To loop through an array/object 		
	ubers = [20, 30, 10, 50, 70]; number of numbers) { lue	
	oop uses number = 20, then 30, 10	
for (let use ind	numbers in numbers) { lex/key	
<pre>each loop uses number = 0, then 1, 2 to get value, use numbers[number] (objec- t[index]) }</pre>		
Function	on	
function	n foo(param1, param2) { return	

function foo(param1, param2) { return param1 + param2}		
function	keyword to instantiate function	
foo	function name, use to describe function purpose, camel-case	
param1, param2	parameters to put into function (optional)	
return	value to get back from function (optional)	
functions are called with brackets $($ foo()		

functions are called with brackets -> foo() if function has parameters, function must be called with parameters -> foo(param) parameters are assigned to new names for usage in the function (see below)

function

function addTogether(firstNum, secondNum) { return firstNum + secondNum; }

result will get the returned value of 21

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