

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

Variable Instantiation	
let variab	leName = 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 capitalized 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

Operators (cont)	
<	less than
>=	more than or equals
<=	less than or equals
j++	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 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	['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 i	n array by referring to its index
(array[0] g	ets 'string', array[1] gets 2)
Object	

Object	
Object	let object = { key1: value1, key2: value2 }
similar t	o array, but replace index with
key(strir	ng)
can con	tain all data types, including arrays
and obje	ects
refer to	objects in 2 ways
1. objec	t.key1 gets value1
2. objec	t['key2'] gets value2. when using
square l	orackets, put the key in string forma

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
function
function addTogether(firstNum,
secondNum) {
return firstNum + secondNum;
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result will get the returned value of 21



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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)	
for		
for		
1.a cor for (let 2. To let let num	s multiple uses ndensed while loop $i = 0; i < 10; i++) \{\}$ toop through an array/object nbers = [20, 30, 10, 50, 70]; number of numbers) {	
each loop uses number = 20, then 30, 10		
}		
	for (let numbers in numbers) {	
	dex/key	
	oop uses number = 0, then 1, 2 value, use numbers[number] (object[i-	

Function	
function for	oo(param1, param2) { return
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()
if function	has parameters, function must be
called with	n parameters -> foo(param)
parameter	rs are assigned to new names for
usage in t	he function (see below)



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