Variables	var	The most common variable. Can be reassigned but only accessed within a function. Variables defined with var move to the top when code is executed.
	const	Cannot be reassigned and not accessible before they appear within the code.
	let	Similar to const, however, let variable can be reassigned but not re-declared.
Data Types	var age = 23	Numbers
	var x	Variables
	var a = "init"	Text (strings)
	var b = 1 + 2 + 3	Operations
	var c = true	True or false statements
	const PI = 3.14	Constant numbers
	var name = {firstNa	Objects
Arrays	concat()	Join several arrays into one
	indexOf()	Returns the first position at which a given element appears in an array
	join()	Combine elements of an array into a single string and return the string
	lastIndexOf()	Gives the last position at which a given element appears in an array
	pop()	Removes the last element of an array
	push()	Add a new element at the end
	reverse()	Reverse the order of the elements in an array
	shift()	Remove the first element of an array
	slice()	Pulls a copy of a portion of an array into a new array of 4 24
	sort()	Sorts elements alphabetically
	splice()	Adds elements in a specified way and position
	toString()	Converts elements to strings
	unshift()	Adds a new element to the beginning
	valueOf()	Returns the primitive value of the specified object
Basic Operators	(plus sign) +	Addition
	-	Subtraction
	*	Multiplication
	/	Division
	(..) Grouping opera	Grouping operator
	%	Modulus (remainder)
	(two plus signs) ++	Increment numbers
	--	Decrement numbers
Comparison Operators	(2 equal signs) ==	Equal to
	(3 equal signs) ===	Equal value and equal type
	!=	Not equal
	!==	Not equal value or not equal type
	>	Greater than
	<	Less than
	>=	Greater than or equal to
	<=	Less than or equal to
	?	Ternary operator
Logical Operators	&&	Logical and
	!!	Logical or
	!	Logical not
Bitwise Operators	&	AND statment
	|	OR statment
	~	NOT

	^	XOR	
	<<	Left shift	
	>>	Right shift	
	>>>	Zero fill right shift	
Outputting Data	alert()	An alert box is displayed with an OK button	
	confirm()	Displays a message box with ok/cancel options	
	console.log()	Writes information to the browser	
	document.write()	Write directly to the HTML document	
	prompt()	A pop up box that needs user input	
Global Functions	decodeURI()	Decodes a Uniform Resource Identifier (URI) created by encodeURI	
	decodeURICompo nent()	Decodes a URI component	
	encodeURI()	Encodes a URI into UTF-8	
	encodeURICompo nent()	Encodes a URI using numbers to represent letters	
	eval()	Evaluates JavaScript code represented as a string	
	isFinite()	Determines whether a passed value is a finite number	
	isNaN()	Determines whether a value is NaN or not	
	Number()	Returns a number converted from its argument	
	parseFloat()	Parses an argument and returns a floating point number	
	parseInt()	Parses its argument and returns an integer	
Loops	for	The most common way to create a loop in Javascript	
	while	Sets up conditions for a loop	
	do while	Checks once again to see if the conditions are met	
	break	Stops the loop cycle if conditions aren't met	
	continue	Skip parts of the loop if conditions are met	
If Else Statements	if (condition) {//}	If a condition is met do this	
	} else {//}	If a condition is not met do this	
Escape Characters	\'	Single quote	
	\"	Double quote	
	\\	Backslash	
	\b	Backspace	
	\f	Form feed	
	\n	New line	
	\r	Carriage return	
	\t	Horizontal tabulator	
	\v	Vertical tabulator	
String Methods	charAt()	Returns a character at a specified position	
	charCodeAt()	Gives you the unicode of character at a specified position	
	concat()	Joins multiple strings together	
	fromCharCode()	Converts UTF-16 unicode values to characters	
	indexOf()	Returns the position of the first occurrence of a specified element	
	lastIndexOf()	Returns the position of the last occurrence of a specified element	
	match()	Returns any matches of a string	
	replace()	Find and replace specific text	
	search()	Searches for text and returns its position	
	slice()	Extracts a section of a string and returns it	

		split()	Splits a string into substrings and returns it at a specified position
		substr()	Extracts a string and returns it at a specified position
		substring()	Excluding negative indices, splits a string into substrings and returns it at a specified position
		toLowerCase()	Convert to lowercase
		toUpperCase()	Convert to uppercase
		valueOf()	Returns the primitive value of a string object
Pattern Modifiers		e	Evaluate replacement
		i	Perform case-insensitive matching
		g	Perform global matching
		m	Perform multiple line matching
		s	Treat strings as single line
		x	Allow comments and whitespace in pattern
		U	Non Greedy pattern
Brackets		[abc]	Find any of the characters between the brackets
		[^abc]	Find any character not in the brackets
		[0-9]	Used to find any digit from 0 to 9
		[A-z]	Find any character from uppercase A to lowercase z
		(a|b|c)	Find any of the alternatives separated with |
Meta characters		.	Find a single character, except newline or line terminator
		\w	Word character
		\W	Non-word character
		\d	A digit
		\D	A non-digit character
		\s	Whitespace character
		\S	Non-whitespace character
		\b	Find a match at the beginning/end of a word
		\B	A match not at the beginning/end of a word
		\0	NUL character
		\n	A new line character
		\f	Form feed character
		\r	Carriage return character
		\t	Tab character
		\v	Vertical tab character
		\xxx	The character specified by an octal number xxx
		\xdd	Character specified by a hexadecimal number dd
		\uxxxx	The Unicode character specified by a hexadecimal number xxxx
Quantifiers		n+	Matches any string that contains at least one n
		n*	Any string that contains zero or more occurrences of n
		n?	A string that contains zero or one occurrences of n
		n{X}	String that contains a sequence of X n's
		n{X,Y}	Strings that contains a sequence of X to Y n's
		n{X,}	Matches any string that contains a sequence of at least X n's
		n$	Any string with n at the end of it
		^n	String with n at the beginning of it
		?=n	Any string that is followed by a specific string n
		?!n	String that is not followed by a specific string n
Number Properties		MAX_VALUE	The maximum numeric value representable in JavaScript

		MIN_VALUE	Smallest positive numeric value representable in JavaScript
		NaN	The "Not-a-Number" value
		NEGATIVE_INFINI	The negative Infinity value
		POSITIVE_INFINIT	Positive Infinity value
Number Methods		toExponential()	Returns a string with a rounded number written as exponential notation
		toFixed()	Returns the string of a number with a specified number of decimals
		toPrecision()	String of a number written with a specified length
		toString()	Returns a number as a string
		valueOf()	Returns a number as a number
Math Properties		E	Euler's number
		LN2	The natural logarithm of 2
		LN10	Natural logarithm of 10
		LOG2E	Base 2 logarithm of E
		LOG10E	Base 10 logarithm of E
		PI	The number PI
		SQRT1_2	Square root of 1/2
		SQRT2	The square root of 2
Math Methods		abs(x)	Returns the absolute (positive) value of x
		acos(x)	The arccosine of x, in radians
		asin(x)	Arcsine of x, in radians
		atan(x)	The arctangent of x as a numeric value
		atan2(y,x)	Arctangent of the quotient of its arguments
		ceil(x)	Value of x rounded up to its nearest integer
		cos(x)	The cosine of x (x is in radians)
		exp(x)	Value of Ex
		floor(x)	The value of x rounded down to its nearest integer
		log(x)	The natural logarithm (base E) of x
		max(x,y,z,...,n)	Returns the number with the highest value
		min(x,y,z,...,n)	Same for the number with the lowest value
		pow(x,y)	X to the power of y
		random()	Returns a random number between 0 and 1
		round(x)	The value of x rounded to its nearest integer
		sin(x)	The sine of x (x is in radians)
		sqrt(x)	Square root of x
		tan(x)	The tangent of an angle
Setting Dates		Date()	Creates a new date object with the current date and time
		Date(2017, 5, 21, 3	Create a custom date object. The numbers represent year, month, day, hour, minutes, seconds, milliseconds. You can omit anything you want except for year and month.
		Date("2017-06-23")	Date declaration as a string
Pulling Date and Time Values		getDate()	Get the day of the month as a number (1-31)
		getDay()	The weekday as a number (0-6)
		getFullYear()	Year as a four digit number (yyyy)
		getHours()	Get the hour (0-23)
		getMilliseconds()	The millisecond (0-999)
		getMinutes()	Get the minute (0-59)
		getMonth()	Month as a number (0-11)
		getSeconds()	Get the second (0-59)
		getTime()	Get the milliseconds since January 1, 1970

	getUTCDate()	The day (date) of the month in the specified date according to universal time (also available for day, month, fullyear, hours, minutes etc.)
	parse	Parses a string representation of a date, and returns the number of milliseconds since January 1, 1970
Set Part of a Date	setDate()	Set the day as a number (1-31)
	setFullYear()	Sets the year (optionally month and day)
	setHours()	Set the hour (0-23)
	setMilliseconds()	Set milliseconds (0-999)
	setMinutes()	Sets the minutes (0-59)
	setMonth()	Set the month (0-11)
	setSeconds()	Sets the seconds (0-59)
	setTime()	Set the time (milliseconds since January 1, 1970)
	setUTCDate()	Sets the day of the month for a specified date according to universal time (also available for day, month, fullyear, hours, minutes etc.)
Node Properties	attributes	Returns a live collection of all attributes registered to and element
	baseURI	Provides the absolute base URL of an HTML element
	childNodes	Gives a collection of an element's child nodes
	firstChild	Returns the first child node of an element
	lastChild	The last child node of an element
	nextSibling	Gives you the next node at the same node tree level
	nodeName	Returns the name of a node
	nodeType	Returns the type of a node
	nodeValue	Sets or returns the value of a node
	ownerDocument	The top-level document object for this node
	parentNode	Returns the parent node of an element
	previousSibling	Returns the node immediately preceding the current one
	textContent	Sets or returns the textual content of a node and its descendants
Node Methods	appendChild()	Adds a new child node to an element as the last child node
	cloneNode()	Clones an HTML element
	compareDocument	Compares the document position of two elements
	getFeature()	Returns an object which implements the APIs of a specified feature
	hasAttributes()	Returns true if an element has any attributes, otherwise false
	hasChildNodes()	Returns true if an element has any child nodes, otherwise false
	insertBefore()	Inserts a new child node before a specified, existing child node
	isDefaultNamespac	Returns true if a specified namespaceURI is the default, otherwise false
	isEqualNode()	Checks if two elements are equal
	isSameNode()	Checks if two elements are the same node
	isSupported()	Returns true if a specified feature is supported on the element
	lookupNamespace	Returns the namespaceURI associated with a given node
	lookupPrefix()	Returns a DOMString containing the prefix for a given namespaceURI, if present
	normalize()	Joins adjacent text nodes and removes empty text nodes in an element
	removeChild()	Removes a child node from an element
	replaceChild()	Replaces a child node in an element
Element Methods	getAttribute()	Returns the specified attribute value of an element node
	getAttributeNS()	Returns string value of the attribute with the specified namespace and name
	getAttributeNode()	Gets the specified attribute node
	getAttributeNodeNS	Returns the attribute node for the attribute with the given namespace and name
	getElementsByTagI	Provides a collection of all child elements with the specified tag name
	getElementsByTagI	Returns a live HTMLCollection of elements with a certain tag name belonging to the given namespace
	hasAttribute()	Returns true if an element has any attributes, otherwise false

	hasAttributeNS()	Provides a true/false value indicating whether the current element in a given namespace has the specified attribute
	removeAttribute()	Removes a specified attribute from an element
	removeAttributeNS	Removes the specified attribute from an element within a certain namespace
	removeAttributeNo	Takes away a specified attribute node and returns the removed node
	setAttribute()	Sets or changes the specified attribute to a specified value
	setAttributeNS()	Adds a new attribute or changes the value of an attribute with the given namespace and name
	setAttributeNode()	Sets or changes the specified attribute node
	setAttributeNodeNS	Adds a new namespaced attribute node to an element
Window Properties	closed	Checks whether a window has been closed or not and returns true or false
	defaultStatus	Sets or returns the default text in the statusbar of a window
	document	Returns the document object for the window
	frames	Returns all <iframe> elements in the current window
	history	Provides the History object for the window
	innerHeight	The inner height of a window's content area
	innerWidth	The inner width of the content area
	length	Find out the number of <iframe> elements in the window
	location	Returns the location object for the window
	name	Sets or returns the name of a window
	navigator	Returns the Navigator object for the window
	opener	Returns a reference to the window that created the window
	outerHeight	The outer height of a window, including toolbars/ scrollbars
	outerWidth	The outer width of a window, including toolbars/ scrollbars
	pageXOffset	Number of pixels the current document has been scrolled horizontally
	pageYOffset	Number of pixels the document has been scrolled vertically
	parent	The parent window of the current window
	screen	Returns the Screen object for the window
	screenLeft	The horizontal coordinate of the window (relative to screen)
	screenTop	The vertical coordinate of the window
	screenX	Same as screenLeft but needed for some browsers
	screenY	Same as screenTop but needed for some browsers
	self	Returns the current window
	status	Sets or returns the text in the statusbar of a window
	top	Returns the topmost browser window
Window Methods	alert()	Displays an alert box with a message and an OK button
	blur()	Removes focus from the current window
	clearInterval()	Clears a timer set with setInterval()
	clearTimeout()	Clears a timer set with setTimeout()
	close()	Closes the current window
	confirm()	Displays a dialogue box with a message and an OK and Cancel button
	focus()	Sets focus to the current window
	moveBy()	Moves a window relative to its current position
	moveTo()	Moves a window to a specified position
	open()	Opens a new browser window
	print()	Prints the content of the current window
	prompt()	Displays a dialogue box that prompts the visitor for input
	resizeBy()	Resizes the window by the specified number of pixels
	resizeTo()	Resizes the window to a specified width and height

	scrollBy()	Scrolls the document by a specified number of pixels	
	scrollTo()	Scrolls the document to specific coordinates	
	setInterval()	Calls a function or evaluates an expression at specified intervals	
	setTimeout()	Calls a function or evaluates an expression after a specified interval	
	stop()	Stops the window from loading	
Screen Properties	availHeight	Returns the height of the screen (excluding the Windows Taskbar)	
	availWidth	Returns the width of the screen (excluding the Windows Taskbar)	
	colorDepth	Returns the bit depth of the color palette for displaying images	
	height	The total height of the screen	
	pixelDepth	The color resolution of the screen in bits per pixel	
	width	The total width of the screen	
Mouse	onclick	The event occurs when the user clicks on an element	
	oncontextmenu	User right-clicks on an element to open a context menu	
	ondblclick	The user double-clicks on an element	
	onmousedown	User presses a mouse button over an element	
	onmouseenter	The pointer moves onto an element	
	onmouseleave	Pointer moves out of an element	
	onmousemove	The pointer is moving while it is over an element	
	onmouseover	When the pointer is moved onto an element or one of its children	
	onmouseout	User moves the mouse pointer out of an element or one of its children	
	onmouseup	The user releases a mouse button while over an element	
Keyboard	onkeydown	When the user is pressing a key down	
	onkeypress	The moment the user starts pressing a key	
	onkeyup	The user releases a key	
Frame	onabort	The loading of a media is aborted	
	onbeforeunload	Event occurs before the document is about to be unloaded	
	onerror	An error occurs while loading an external file	
	onhashchange	There have been changes to the anchor part of a URL	
	onload	When an object has loaded	
	onpagehide	The user navigates away from a webpage	
	onpageshow	When the user navigates to a webpage	
	onresize	The document view is resized	
	onscroll	An element's scrollbar is being scrolled	
	onunload	Event occurs when a page has unloaded	
Form	onblur	When an element loses focus	
	onchange	The content of a form element changes (for <input>, <select>and <textarea>)	
	onfocus	An element gets focus	
	onfocusin	When an element is about to get focus	
	onfocusout	The element is about to lose focus	
	oninput	User input on an element	
	oninvalid	An element is invalid	
	onreset	A form is reset	
	onsearch	The user writes something in a search field (for <input="search">)	
	onselect	The user selects some text (for <input> and <textarea>)	
	onsubmit	A form is submitted	
Drag	ondrag	An element is dragged	
	ondragend	The user has finished dragging the element	

	ondragenter	The dragged element enters a drop target
	ondragleave	A dragged element leaves the drop target
	ondragover	The dragged element is on top of the drop target
	ondragstart	User starts to drag an element
	ondrop	Dragged element is dropped on the drop target
Clipboard	oncopy	User copies the content of an element
	oncut	The user cuts an element's content
	onpaste	A user pastes content in an element
Media	onabort	Media loading is aborted
	oncanplay	The browser can start playing media (e.g. a file has buffered enough)
	oncanplaythrough	When browser can play through media without stopping
	ondurationchange	The duration of the media changes
	onended	The media has reached its end
	onerror	Happens when an error occurs while loading an external file
	onloadeddata	Media data is loaded
	onloadedmetadata	Meta Metadata (like dimensions and duration) are loaded
	onloadstart	Browser starts looking for specified media
	onpause	Media is paused either by the user or automatically
	onplay	The media has been started or is no longer paused
	onplaying	Media is playing after having been paused or stopped for buffering
	onprogress	Browser is in the process of downloading the media
	onratechange	The playing speed of the media changes
	onseeked	User is finished moving/skipping to a new position in the media
	onseeking	The user starts moving/skipping
	onstalled	The browser is trying to load the media but it is not available
	onsuspend	Browser is intentionally not loading media
	ontimeupdate	The playing position has changed (e.g. because of fast forward)
	onvolumechange	Media volume has changed (including mute)
	onwaiting	Media paused but expected to resume (for example, buffering)
Animation	animationend	A CSS animation is complete
	animationiteration	CSS animation is repeated
	animationstart	CSS animation has started
Other	transitionend	Fired when a CSS transition has completed
	onmessage	A message is received through the event source
	onoffline	Browser starts to work offline
	ononline	The browser starts to work online
	onpopstate	When the window's history changes
	onshow	A <menu> element is shown as a context menu
	onstorage	A Web Storage area is updated
	ontoggle	The user opens or closes the <details> element
	onwheel	Mouse wheel rolls up or down over an element
	ontouchcancel	Screen touch is interrupted
	ontouchend	User finger is removed from a touch screen
	ontouchmove	A finger is dragged across the screen
	ontouchstart	Finger is placed on touch screen
Errors	try	Lets you define a block of code to test for errors
	catch	Set up a block of code to execute in case of an error

	throw	Create custom error messages instead of the standard JavaScript errors
	finally	Lets you execute code, after try and catch, regardless of the result
Error Name Values	name	Sets or returns the error name
	message	Sets or returns an error message in string from
	EvalError	An error has occurred in the eval() function
	RangeError	A number is "out of range"
	ReferenceError	An illegal reference has occurred
	SyntaxError	A syntax error has occurred
	TypeError	A type error has occurred
	URIError	An encodeURI() error has occurred