

EP 1 : Get start with JavaScript



Why JavaScript?





BACKBONE



METEOR



EMBER



REACT



AURELIA



VUE



ANGULAR



NODE



REASON



SVELTE



ELM



PREACT

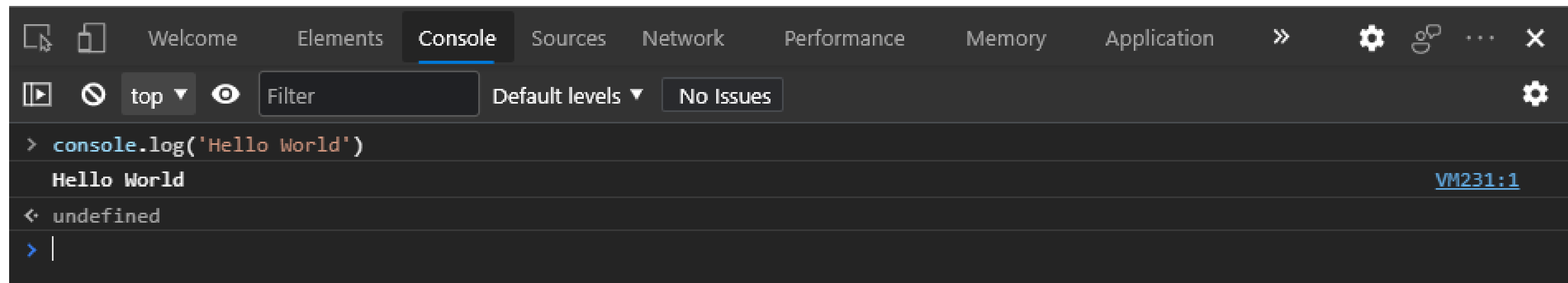
JS

ECMAScript Editions

Allows trailing commas for function parameters

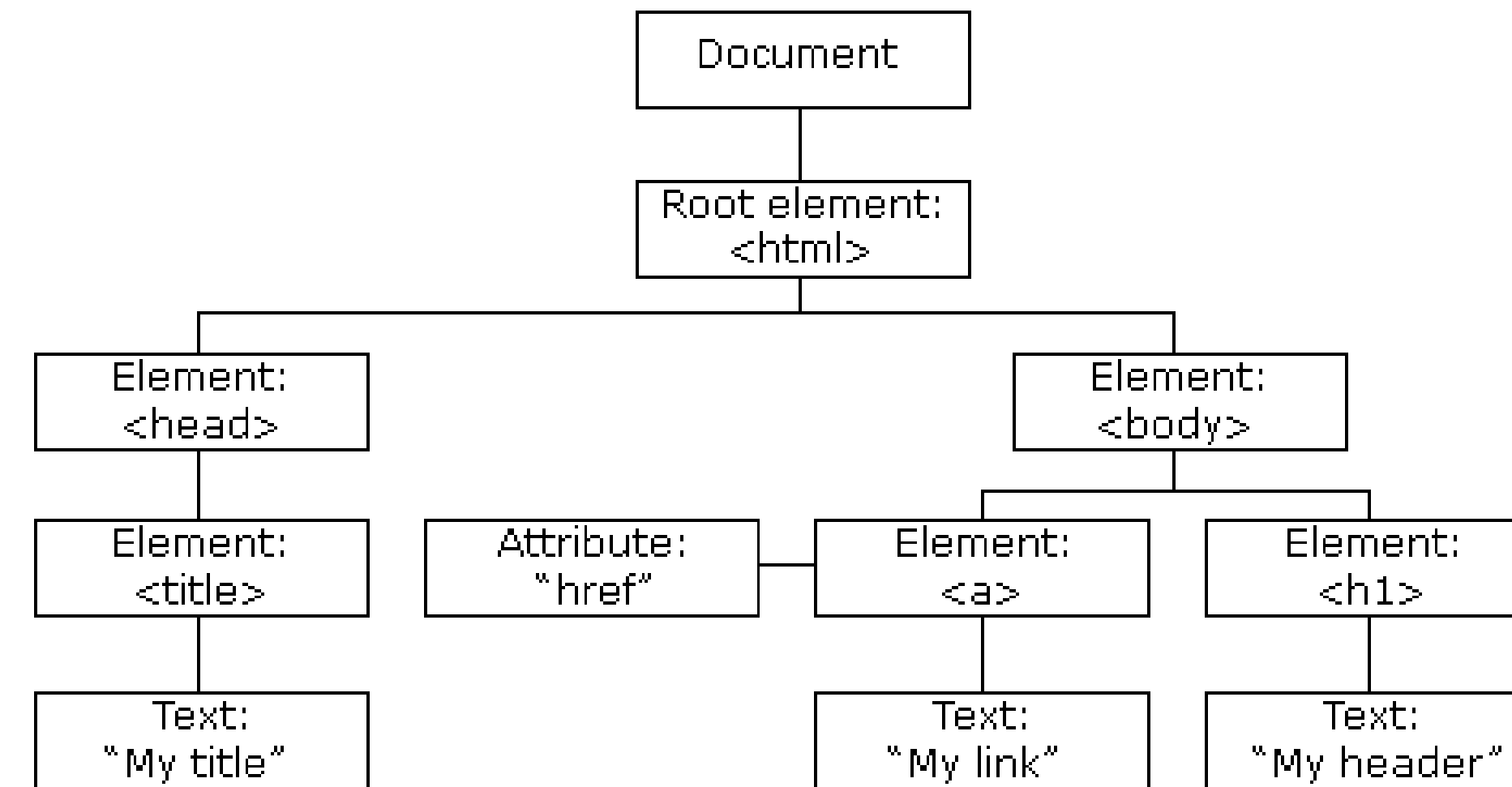
Ver	Official Name	Description
ES1	ECMAScript 1 (1997)	First edition
ES2	ECMAScript 2 (1998)	Editorial changes
ES3	ECMAScript 3 (1999)	Added regular expressions Added try/catch Added switch Added do-while
ES4	ECMAScript 4	Never released
ES5	ECMAScript 5 (2009) Read More	Added "strict mode" Added JSON support Added String.trim() Added Array.isArray() Added Array iteration methods Allows trailing commas for object literals
ES6	ECMAScript 2015 Read More	Added let and const Added default parameter values Added Array.find() Added Array.findIndex()
	ECMAScript 2016 Read More	Added exponential operator (**) Added Array.includes()
	ECMAScript 2017 Read More	Added string padding Added Object.entries() Added Object.values() Added async functions Added shared memory
	ECMAScript 2018 Read More	Added rest / spread properties Added asynchronous iteration Added Promise.finally() Additions to RegExp

JavaScript เป็นภาษาที่สามารถใช้งานบนเบราว์เซอร์ได้



JS HTML DOM





"The W3C Document Object Model (DOM) is a platform and language-neutral interface that allows programs and scripts to dynamically access and update the content, structure, and style of a document."

HTML DOM

คือโครงสร้างวัตถุและ Programming Interface สำหรับ HTML

- ทุก HTML elements คือ **Objects**
- มี **Properties** ในทุก HTML elements
- มี **Methods** เพื่อใช้งานร่วมกับ HTML elements
- ทุก HTML elements มี **Events**

HTML DOM Methods

ส่วนที่เรากระทำ (**Actions**) กับ HTML elements ได้

HTML DOM Properties

คุณสมบัติและ/หรือองค์ประกอบต่างๆใน HTML elements
สามารถเข้าถึงได้โดยใช้ Get/Set หรือ วิธีที่ง่ายที่สุดคือ
innerHTML

Finding HTML Elements

Method	Description
<code>document.getElementById(<i>id</i>)</code>	Find an element by element id
<code>document.getElementsByTagName(<i>name</i>)</code>	Find elements by tag name
<code>document.getElementsByClassName(<i>name</i>)</code>	Find elements by class name

Changing HTML Elements

Property	Description
<code>element.innerHTML = new html content</code>	Change the inner HTML of an element
<code>element.attribute = new value</code>	Change the attribute value of an HTML element
<code>element.style.property = new style</code>	Change the style of an HTML element
Method	Description
<code>element.setAttribute(attribute, value)</code>	Change the attribute value of an HTML element

Adding and Deleting Elements

Method	Description
<code>document.createElement(<i>element</i>)</code>	Create an HTML element
<code>document.removeChild(<i>element</i>)</code>	Remove an HTML element
<code>document.appendChild(<i>element</i>)</code>	Add an HTML element
<code>document.replaceChild(<i>new</i>, <i>old</i>)</code>	Replace an HTML element
<code>document.write(<i>text</i>)</code>	Write into the HTML output stream

Adding Events Handlers

Method	Description
<code>document.getElementById(id).onclick = function(){code}</code>	Adding event handler code to an onclick event

Common HTML Events

Here is a list of some common HTML events:

Event	Description
onchange	An HTML element has been changed
onclick	The user clicks an HTML element
onmouseover	The user moves the mouse over an HTML element
onmouseout	The user moves the mouse away from an HTML element
onkeydown	The user pushes a keyboard key
onload	The browser has finished loading the page

Operators



JavaScript Arithmetic Operators

Arithmetic operators are used to perform arithmetic on numbers:

Operator	Description
+	Addition
-	Subtraction
*	Multiplication
**	Exponentiation (<u>ES2016</u>)
/	Division
%	Modulus (Division Remainder)
++	Increment
--	Decrement

JavaScript Assignment Operators

Assignment operators assign values to JavaScript variables.

Operator	Example	Same As
=	x = y	x = y
+=	x += y	x = x + y
-=	x -= y	x = x - y
*=	x *= y	x = x * y
/=	x /= y	x = x / y
%=	x %= y	x = x % y
**=	x **= y	x = x ** y

JavaScript Comparison Operators

Operator	Description
==	equal to
===	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

Next, We will see about
Types, Functions and let's start
some mini project



SEE YOU SOON ...