Cheatography

JavaScript Cheat Sheet by binca via cheatography.com/44948/cs/13428/

About

Most common client-side scripting language in use. Originally designed by Netscape in 95 and called LiveScript.

Use for for reading and understanding scripts from the target systems.

Can be used to write attacks against target systems.

In web pages is can be inline with HTML via <**script**> tags, as a part of an HTML item <**img src="link" onload="javascript;"**>, or loaded from an external document <**script src=http://evil.agent/bad.js**>

It is an object-oriented language.

Control Statements

while loop	Runs a block of code until a condition is met
for loop	Runs for a set number of times

Variables

Any type of data can be assigned to a variable without concern.

Declaration: var x;

Variables can be assigned at declaration or later. var x="string"; or x="string";

If a variable is re-declared after a value is assigned to it, the original value is still assigned.

Global variables are those declared outside of functions and are accessible everywhere.

Instance variables are those declared within a function and are exclusive to the function.

Functions

Functions can be declared anywhere within the page, but it is safest to declare in the <HEAD> to ensure they are loaded before being called.

function name(var1, var2) { some code }

To return data from a function use **return var**; statement within the function.

Call a function using function_name()



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Events		
onload	Page of item is finished loading	
onunload	User leaves the page the script is on	
onerror	An error occurs loading page or item	
onclick	Item is clicked on with mouse	
onsubmit	The form is submitted	
onfocus	The item receives focus	
onblur	The item loses focus	
onchange	Content of field changes	
onmouseover	The mouse is hovering over item	
Every item in a page has a series of associated events. The event		

Every item in a page has a series of associated events. The event calls a function.

Events within Attacks		
onload	Change content of page after it loads	
onunload	Launch pop-under window to retain control of a zombie browser	
onsubmit	Change form values so the transaction is one of the attacker's choosing.	
onfocus	Send HTTP request to attacker's web server to reveal which controls the user is selecting.	
onerror	Used within web scanners injected via XSS to determine a resource does not exist. Usefule when port scanning a network using JavaScript.	
onclick	Change where a link points without the user knowing.	
onmouseover	Track the movement of the mouse across a page.	
onblur	Send the contents of a form field to an attacker.	

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Document Object Model (DOM)

Provides standard interface tot he document allowing scripts to dynamically access and update content, structure, or style of the page.

Doc referenced is either HTML or XML

DOM provides native objects to access various items of interest: **document.forms[0]** refers to 1st form on page

document.write("string") write string to the page

document.write(document.cookie) will write value of the page's cookies to the page

Form object is used to access a specific form

form.action=[URL] sets the forms action to the URL allowing for redirecting the browser to another page

form.submit() will submit form

DOM Nodes

Viewed as a tree the HTML tag is the root and has two children <-HEAD> and <BODY>. Each other them have children and so forth.

Object Methods and Properties

Objects have to be initialized instead of being assigned to a variable; var string=new String();

Objects have properties, attributes of the object, and methods, which are actions performed on the object.

Devs can create their own objects.

When referring to a property of an object, we use the format **object.property**, such as **document.referrer**.

Calling a method is similar but also requires () with values determined by the method.

Objects and Associated Properties and Methods

Object Type	Method	Property	
String	split() parses the string	length returns size	
Date	getTime() returns current time		
	getMonth() returns current month		

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Objects and Associated Properties and Methods (cont)

Array	join() joins the elements in the array sort() sorts the array		
Window	open() creates a new browser window alert() pops up a dialog box		
Document	<pre>write() writes content to the page referrer() returns referring URL</pre>		
Location	reload() reloads doc	port() returns the port of the current page	
History	back() is the same as the back button	Length returns history item count	

Selecting and Changing Content

Scripts can find specific content by walking the DOM.

The script can read the item's attributes and associated items such as text.

The script can then rewrite the item.

function counttags(tag) {

count = document.getElementsByTagName(tag).length return count

return cour

Interacting with Cookies

strCookie=document.cookie returns only the name=value pairs

Parsing the cookie takes a little work.

 Parse to split each name=value pair. var arrValues=document.cookie.split(';');

2. Loop through each pair and split on the =. (4:22)

Setting cookies only requires 3-4 parameters: A cookie name and value pair

Expiration time for the cookie ad URI path that is able to access it

Data NOT required for session cookies

document.cookie="userid=person; expires=Wed, 1-Nov-2017; path=/";

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