



WORDCAMP

Nepal 2012

idealaya

nhuja
concepts

DIGITAL **MAX**
solutions

CT CATCH THEMES

M. MaxBlogPress

CODE POET

GRAPH PAPER PRESS

WPXPO

vianet
Make the right connection.



idealaya

nhuja
concepts

DIGITAL MAX
solutions

CT CATCH THEMES

M. MaxBlogPress

CODE POET

GRAPH PAPER PRESS

WPXPO

vianet
Make the right connection.

JAVASCRIPT & WORDPRESS

AVINASH KUNDALIYA (@HARDFIRE)

<3 JS & PHP

**IS JAVASCRIPT
IMPORTANT ??**

USED BY 92.3% SITES
OCTOBER 2012 - W3TECHS.COM

>80% RELY FOR IMPORTANT FUNCTIONALITY

UBIQUITOUS.

CAN MAKE SITE SLOW

IF DONE THE WRONG WAY

I'LL WAIT AS LONG
AS I FUCKIN WANT.





CAN MAKE SITE UNUSABLE
IF DONE TOTALLY THE WRONG WAY

I AM CONVINCED !!
WE SHOULD USE JS, THE RIGHT WAY

JAVASCRIPT

SOME DIFFERENTIATING PARTS

VAR

GLOBAL SCOPE BY DEFAULT

```
a=5;  
function say() {  
  a=3;  
  console.log(a);  
}  
say();  
console.log(a);
```

```
3  
3 // whoa!
```

USE VAR KEYWORD

```
a=5;  
function say() {  
  var a=3;  
  console.log(a);  
}  
say();  
console.log(a);
```

```
3  
5 // thank god! :D
```

HOISTING

```
var val = 'namaste';  
(function() {  
  console.log(val); // namaste  
})();
```

```
var val = 'namaste';  
(function() {  
  console.log(val); // undefined  
  var val = 'ola!';  
})();
```

Wherever i define my variable, the initialization will be **hoisted** to the top.

THIS

Elsewhere : current object instantiated by the class

JS : depends on how the function is called.

`this` refers to the owner of the function

THIS : WINDOW (FUNCTION CALL)

```
function what_is_this() {  
    console.log(this);  
}  
what_is_this(); //window
```

THIS : OBJECT (OBJECT METHOD)

```
var thisObject = {  
  thisFunc: function(){  
    console.log(this);  
  }  
}  
thisObject.thisFunc(); //thisObject
```

THIS : OBJECT (CONSTRUCTING OBJECTS USING NEW)

```
function WordCamp(year){
  this.year = year;
  this.yellOut = function(){
    console.log("Yay! it is WC "+ this.year);
  }
}
var wc2012 = new WordCamp(2012);
wc2012.yellOut(); // Yay! it is WC 2012
```

```
var wc2011 = WordCamp(2011);
wc2012.yellOut(); // Undefined
```

```
yellOut(); // Yay! it is WC 2011
```

FUNCTIONS : FIRST CLASS

FUNCTION DECLARATION

```
function say() {  
    var a=3;  
    console.log(a);  
}  
say();
```

FUNCTION EXPRESSION

```
var say = function(){  
    var a=3;  
    console.log(a);  
}  
say();
```

```
function say(func) {  
    var a=3;  
    func(a);  
}  
say(console.log);
```

SEE, I CAN PASS FUNCTIONS

```
function say(func) {  
    var a=3;  
    func(a);  
}  
say(function(name){alert(name)});
```

EVEN FUNCTIONS WITHOUT A NAME

CODE TWISTERS

```
function foo(){  
  function bar() {  
    return 3;  
  }  
  return bar();  
  function bar() {  
    return 8;  
  }  
}  
alert(foo());
```

Output : 8

CODE TWISTERS

```
function foo(){  
    var bar = function() {  
        return 3;  
    };  
    return bar();  
    var bar = function() {  
        return 8;  
    };  
}  
alert(foo());
```

Output : 3

Code examples from <http://javascriptweblog.wordpress.com/>

THINGS MIGHT JUST GO WRONG

```
function getTenFunctionsBad() {  
  var result = [];  
  for (var i = 0; i < 10; i++) {  
    result.push(function () {  
      return i;  
    });  
  }  
  return result;  
}  
var functionsBad = getTenFunctionsBad();  
for (var i = 0; i < 10; i++) {  
  console.log(functionsBad[i]());  
}
```

```
10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10 , 10
```

BUT WE CAN FIX THEM

```
function getTenFunctions() {  
  var result = [];  
  for (var i = 0; i < 10; i++) {  
    result.push((function (i) {  
      return function () {  
        return i;  
      }  
    })(i));  
  }  
  return result;  
}  
var functions = getTenFunctions();  
for (var i = 0; i < 10; i++) {  
  console.log(functions[i]());  
}
```

0 , 1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9

OK! LET'S TALK ABOUT WORDPRESS

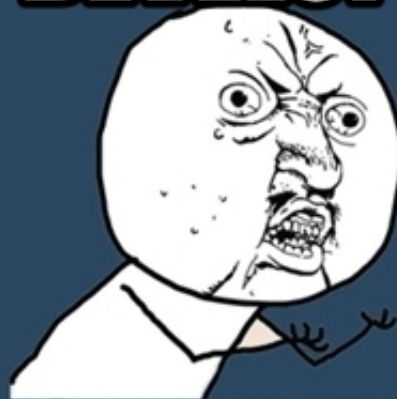
```
add_action('wp_head', 'add_my_script');

function add_my_script() {
?>
<script type="text/javascript"
    src="<?php bloginfo('wpurl'); ?>/wp-content/plugins/my-plugin/jquery.js"></sc
ript>

<script type="text/javascript"
    src="<?php bloginfo('wpurl'); ?>/wp-content/plugins/my-plugin/my-script.js"><
/script>

<?php
}
```

WP DEVELOPERS



Y U NO USE HELPER FUNCTIONS

LET'S DO IT LIKE THE PRO'S

- `wp_register_script`
- `wp_deregister_script`
- `wp_enqueue_script`
- `wp_dequeue_script`

WP_REGISTER_SCRIPT @CODEX

Yo WP! Remember this script

```
(  
$handle, //name of the script  
$src, // url to script  
$deps, // array of dependencies  
$ver, //version of code  
$in_footer // place in footer?  
);
```


WP_REGISTER_SCRIPT - EXAMPLE

```
wp_register_script (
    'mytheme-custom', // handle WP will know JS by
    get_template_directory_uri() . '/js/custom.js',
    array('jquery'), // requires jQuery
    1.0, // version 1.0
    true // can load in footer
);
```

Don't hardcode. Use `plugins_url` or
`get_template_directory_uri`

Many predefined libraries [@codex](#)

WP_DEREGISTER_SCRIPT @CODEX

Yo WP! forget about this script

```
wp_deregister_script('jquery');
```

WP_ENQUEUE_SCRIPT @CODEX

Yo WP! Please put the script in my page

```
wp_enqueue_script( $handle , $src , $deps ,  
                  $ver , $in_footer );
```

A LITTLE COMPLEX EXAMPLE

```
function my_scripts_method() {  
    wp_deregister_script( 'jquery' );  
    wp_register_script( 'jquery', 'http://ajax.googleapis.com/ajax/libs/jquery/1.7.2/  
jquery.min.js' );  
    wp_enqueue_script( 'jquery' );  
}  
  
add_action( 'wp_enqueue_scripts', 'my_scripts_method' );
```

Use jQuery from google CDN instead of WordPress local

WP_DEQUEUE_SCRIPT @CODEX

Hey WP! Someone put this script in my page, remove it please

```
wp_dequeue_script($handle);
```

EXAMPLE

```
wp_register_script( 'jquery.flexslider',  
    get_template_directory_uri().'/js/flex.js',  
    array('jquery'), '1.7', true );  
wp_register_script( 'home-page-slider',  
    get_template_directory_uri().'/js/slider.js',  
    array('jquery.flexslider'), '1.0', true );  
if ( is_front_page() ) {  
wp_enqueue_script('home-page-slider');  
}
```

WP_LOCALIZE_SCRIPT @CODEX

Send data from WordPress to JavaScript

```
wp_localize_script( $handle, $object_name, $l10n );
```

SIMPLE EXAMPLE

```
wp_enqueue_script( 'some_handle' );  
$translation_array = array( 'some_string' => __( 'Some string to translate' ), 'a_value' => '10' );  
wp_localize_script( 'some_handle', 'object_name', $translation_array );  
  
console.log(object_name.some_string);
```

WP_LOCALIZE_SCRIPT EXAMPLE

```
wp_localize_script(  
    'simplecatch_custom_slider', 'js_value',  
    array(  
        'transition_effect' => $transition_effect,  
        'transition_delay' => $transition_delay,  
        'transition_duration' => $transition_duration  
    ));
```


AJAX IN WP

```
require_once( "../..../wp-config.php" );  
// or require_once( "../..../wp-load.php" );
```

PLEASE DON'T TRY THIS AT HOME!

WP_AJAX_(ACTION) @CODEX

```
jQuery.post(  
    MyAjax.ajaxurl,  
    {  
        'action':'add_foobar',  
        'data':'foobarid'  
    },  
    function(response){  
        alert('The server responded: ' + response);  
    }  
);
```

WP_AJAX_(ACTION)

```
add_action('wp_ajax_add_foobar',  
           'prefix_ajax_add_foobar');  
  
function prefix_ajax_add_foobar() {  
    //Do Something really awesome here :)  
    exit;  
}
```

BUT WHY ?

SUMMING UP

- var
- this
- functions awesomeness
- use wordpress helper functions

WHAT NEXT

- "use strict"
- closures
- functional programming
- more quirks : [JS Garden](#)

"Go make something awesome!"

?

THE END :-' (

- AVINASH KUNDALIYA / @HARDFIRE

