


new whizzy javascript stuff



aka the glorious new future



aka one day my son all this
will be yours

ecmascript 4



ecmascript 4

face? bothered?

real things

Array Functions

getters

QUERYSELECTORALL

DOM LOCAL STORAGE

QUERYSELECTOR

LOCAL DB STORAGE

‹event-source›

getComputedStyle

setters

getElementsByClassName

getElementsByTagName

```
var elements = document.getElementsByTagName("class");
```

just like `getElementsByTagName`

querySelector, querySelectorAll

```
var link = document.querySelector(".nav p a");
```

```
var links = document.querySelectorAll(".nav p a");
```

```
var l = e.querySelectorAll(".large:nth-child(even)");
```

use any CSS selectors you like

Array functions

```
["a","b","c"].forEach(function(val, idx, arr) {  
    item (idx) in array (arr) is (val)  
});
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[1,2,3].every(function(val, idx, arr) {  
    return (val < 4)  
}) // true: see also "some"
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Array functions

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```
[1,2,3,4,5].filter(function(val, idx, arr) {  
    return (val < 4)  
}) // [1,2,3]
```

Array functions

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}) // [1,2,3]
```

```
[1,2,3,4,5].map(function(val, idx, arr) {  
    return (val + 6)  
}) // [7,8,9,10,11]: see also "reduce"
```

Array functions

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["a","b","c"].forEach(function(val, idx, arr) {  
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[1,2,3,4,5].filter(function(val, idx, arr) {  
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}) // [1,2,3]
```

```
[1,2,3,4,5].map(function(val, idx, arr) {  
    return (val + 6)  
}) // [7,8,9,10,11]: see also "reduce"
```

```
["a","b","c"].indexOf("b") // 1
```

getComputedStyle

```
var el = document.querySelector("p");  
var css = document.defaultView.getComputedStyle(el, null);  
var height = css.getPropertyValue("height");
```

unnecessarily complex

runtimeStyle in IE

```
var e1 = document.getElementsByTagName("p")[0];  
var height = e1.runtimeStyle.height;  
e1.runtimeStyle.cssText = "height: 200px;";
```

Internet Explorer ftw!

getters and setters

```
var dt = Date.prototype;
dt.__defineGetter__("sinceIWasBorn", function() {
    var silborn = Date.parse("30/01/1976");
    return this.getTime() - silborn;
});
```

```
var now = new Date();
alert(now.sinceIWasBorn); // property, not method
```

getters and setters

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dt.__defineGetter__("sinceIWasBorn", function() {
    var silborn = Date.parse("30/01/1976");
    return this.getTime() - silborn;
});
```

```
var obj = {
    a: 100,
    get b(): { return this.a + 1 }
    set c(val): {
        this.a = val + 50;
    }
};
```

DOM local storage

```
var visits = globalStorage["kryogenix.org"].visits;  
if (!visits) visits = 0;  
globalStorage["kryogenix.org"].visits = visits + 1;
```

IE has userData behaviours

local database storage

```
var db = openDatabase("My Database", "1.0");

db.executeSql("SELECT * FROM test", function(result1) {
    // do something with the results

    db.executeSql("DROP TABLE test", function(result2) {
        // do some more stuff

        alert("The second query has finished");
    });
});
```

WebKit only (Mozilla in XPCOM)

server-sent events

PHP on the server:

```
header("Content-Type: application/x-dom-event-stream");
while(true) {
    echo "Event: server-time\n";
    $time = time();
    echo "data: $time\n";
    echo "\n";
    flush();
    sleep(3);
}
```

server-sent events

```
header("Content-Type: application/x-dom-event-stream");
while(true) {
    echo "Event: server-time\n";
    $time = time(); echo "data: $time\n";
    echo "\n"; flush();
    sleep(3);
}
```

```
<event-source src="getTime.php">
```

```
document.getElementsByTagName("event-source")[0]
    .addEventListener("server-time", eventHandler, false);
```

```
function eventHandler(event) {
    alert(event.data);
}
```

Opera only



I know what
you're thinking...
where can I get
these fine new
items?

querySelector
array functions
server-sent events
getters and setters
DOM local storage
getComputedStyle
local database storage
getElementsByClassName

querySelector
array functions



~~server-sent events~~ (opera only)

getters and setters

~~DOM local storage~~ (not webkit)

getComputedStyle

~~local database storage~~ (webkit only)

getElementsByClassName

~~querySelector~~
~~array functions~~
~~server-sent events~~
~~getters and setters~~
~~DOM local storage~~
~~getComputedStyle~~
~~local database storage~~
~~getElementsByClassName~~



querySelector

~~server-sent events~~

~~getters and setters~~

~~local database storage~~



with a library

querySelector

array functions

~~server-sent events~~

~~getters and setters~~

DOM local storage

getComputedStyle

~~local database storage~~

getElementsByClassName



single browser environment

progressive enhancement

party like it's 2009



fin.