

jQuery 2013

Created by Johannes Hoppe

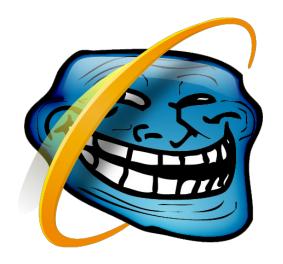


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jQuery Core



getElementsByClassName



jQuery!

```
<script>
$(".postit").css({
    backgroundColor: '#F0F0A6',
    padding: '10px'
});
</script>
```

jQuery core

DOM manipulation •
event handling •
animations
AJAX •
plugins •
(next webinar)

The jQuery way

- 1. Select some HTML (Sizzle Selector Engine)
- 2. Do something with it



Selector Performance

Use IDs where possible
Avoid selecting by class only
KISS
Increase Specificity from Left to Right
Avoid touching the DOM

Do something with it

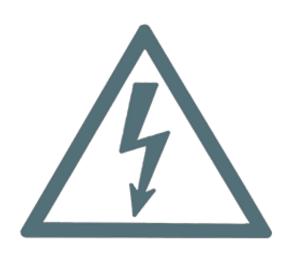
Manipulation of elements
Change of element attributes
Traversing
Events
Effects

AJAX

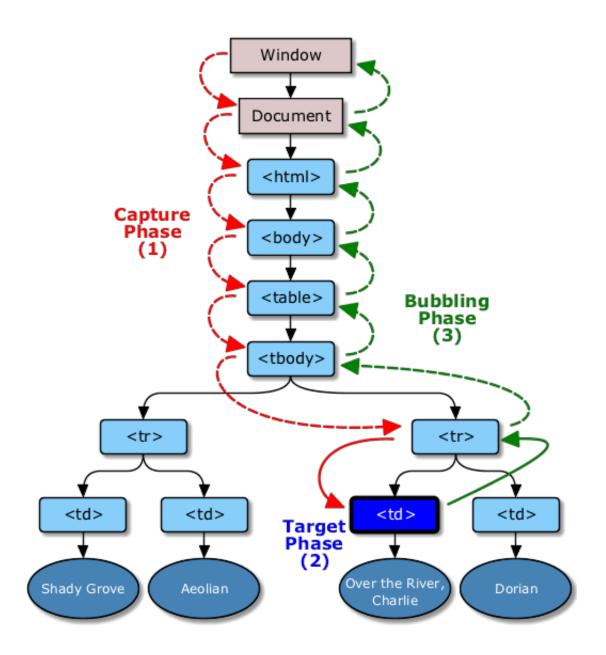
Example

```
<script>
$('<h1>')
    .prependTo("body")
    .text(":-(")
    .css({
        position: "absolute",
        top: "50%",
        left: "50%",
        zIndex: "999"
    })
    .click(function () {
        $ (this) .fadeOut (function() {
            $(this).load("/examples/smilie.html").fadeIn();
        });
   });
</script>
```

Event Model



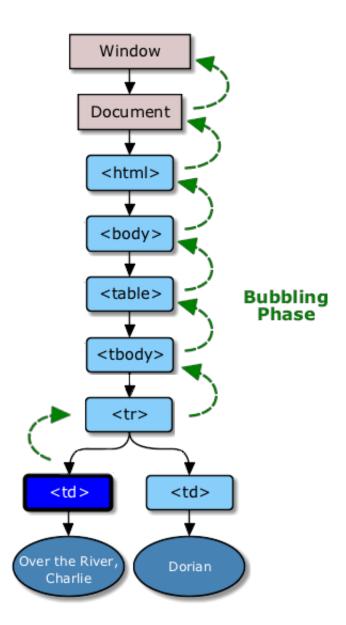
DOM Level 3 Event Model



DOM Level 3 Event Model

```
document.getElementsByTagName('a')[0]
          .addEventListener("click", function() {
               alert(this.text);
});
```

jQuery Event Model



jQuery Event Model

Demo Link

```
$('a').on('click', function() {
    alert(this.text);
});

$('a').click(function() {
    alert(this.text);
});
```

Some Ajax

```
$(function() {
    $('#example').dataTable({
        sAjaxSource: "/api/Note/"
    });
});
```

First try

```
$(function() {
    $('td').click(function() {
        alert($(this).text());
    });
});
```

Delegated events

```
$(function() {
    $('table').on('click', 'td', function() {
        alert($(this).text());
    });
});
```

API changes!

Asynchronous Communication



before jQuery 1.5

```
$.ajax({
    url: "/examples/webinar.json",
    success: function(result) {
        $.each(result, function(index, value) {
            console.log(value.Title);
        });
    }
});
```

Deferred object

```
$.ajax("/examples/webinar.json")
.done(function(result) {
    $.each(result, function(i, value) {
        console.log(value.Title);
    });
});
```

Deferred object - Promisses

```
$.when(
    $.ajax("/examples/webinar.json"),
    $.ajax("/examples/webinar.json"))
.done(function(result1, result2) {
    var bothResults = result1[0].concat(result2[0]);
    $.each(bothResults, function(i, value) {
        console.log(value.Title);
    });
});
```

Best Practices



Modul loaders

use AMD (require.js)

```
define('myFirstModule', ['jquery'], function() {
    return {
        saySomething : function() { alert("hello!"); }
    }
});

require(['myFirstModule'], function(t) {
        t.saySomething();
});
```

Own Events

Publish/Subscribe Pattern

```
var $events = $({});

$events.bind('somethingHappens', function() {
    alert("Something happened!");
});

$events.trigger('somethingHappens');
```

jasmine-jquery

custom matchers, HTML/style/JSON fixtures, event spies and all the love!

```
describe('my jQuery plugin', function () {
    beforeEach(function() {
        jasmine.getFixtures().fixturesPath='examples/05_jasmine';
        jasmine.getFixtures().load('jquery.myPlugin.spec.html');
    });
    it('should do something', function() {
        var $div = $('#helloWorld').myPlugin();
        expect($div).toHaveClass("newClass");
    });
});
jasmine.getEnv().execute();
```

ASP.NET MVC

Bundling and Minification

Downloads



bit.ly/devMedia bit.ly/devMediaCode 26.09.

Webinar: jQuery 2013 - Teil 2

19.09.

Webinar: require.js & modulares JS - Teil 1

Danke!