

#### jQuery Advanced Module 3



#### jQuery Coding Standards & **Best Practices**



## jQuery Best Practices & coding standards

Credits: <a href="http://lab.abhinayrathore.com/jquery-standards/">http://lab.abhinayrathore.com/jquery-standards/</a>

- 1. JQuery Laden
  - Gebruik een CDN (geldt *niet* voor mobile/standalone apps)
  - Schrijf lokaal een fallback-optie.
  - Kies de goede jQuery branch: 1.x vs. 2.x

#### Loading jQuery

- 1. Always try to use a CDN to include JQuery on your page. CDN Benefits 🗗

- Click here for a list of popular [Duery CDNs.

  Implement a fallback to your bocally hosted library of same version as shown above. More Info CP

  I use protocol-residiverprotocol-independent CP URL (leave Mittgs) or hittps: only as shown above.

  If possible, keep all your JavaNorgird and [Duery Induces at the bottom of your page. Notice Info CP and a sample on HTML5 Bollerpiate CP.

  Vinds version to use?

  ON TOT use (Duery version 2.x if you support Internet Explorer 6/7/8.

  For new web-apps, if you do not have any plugin compatibility issue, it's highly recommended to use the latest (Duery version.

  When loading (Duery from CDNs, always specify the complete version number you want to load (Example: 1.ff. 0 as opposed to f.ff or Just 1).

  ON INOT load multiple (Query versions.

  If you are using other libraries like Prototype, MooTools, Zepto etc. that uses § sign as well, try not to use § for calling (Query functions and instead use § (Seery) simply) You can return control of § back to the other library with a call to \$.nocenfict(1).

  For advanced browser feature detection, use Modernizr CP.



## 2. Variabelen in jQuery scripts

- Een variabele die gewrapt is in een jQuery object begint met \$
- · Cache je variabelen voor betere performance bij hergebruik
- · Gebruik camelCasing

```
    jQuery Variables
    All variables that are used to store/cache jQuery objects should have a name prefixed with a §.
    Always cache your jQuery selector returned objects in variables for reuse.
    var $myDiv = $("#myDiv");
$myDiv.click(function(){...});
    Use camel case & for naming variables.
```

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#### 3. Selectors

- Gebruik ID-selectors voor snelheid, single classes voor classselectie, zonder element of ID-specificiteit
- Gebruik .find() voor subselecties
- · Geen overbodige specificiteit
- · Gebruik waar mogelijk context selector

```
Selectors

1. Use ID selector whenever possible. It is faster because they are handled using document.getElementById().

2. When using class selectors, ontruse the element type in your selector. Performance Comparison (**)

var Sproducts = $("air_verducts"); // SLOM
var Sproducts = $("encoducts"); // FAST

3. Use find for /d->Child nested selectors. The _find() approach is faster because the first selection is handled without going through the Sizzle selector engine. More into (**)

// BAD, a nested query for Sizzle selector engine
var Sproductids = $("aproducts div.id");

// GOOD, ** products div.id");

// GOOD, ** products is already selected by document.getElementById() so only div.id needs to go through Sizzle selector engine
var $preductids = $("aproducts").find("div.id");
```





#### 4. DOM Manipulation

- Gebruik .detach() als je (extreem) veel handelingen moet verrichten met een element. Voeg het daarna weer toe met .append() of .appendTo().
- Test eerst of een element bestaat voordat je animatie gebruikt.

```
1. Always detach any existing element before manipulation and attach it back after manipulating it. More info 
var $my(ist = $("mist-container") ul").detach();

//...a lot of complicated things on $my(ist 
$my(ist appendIo("mist-container");
```

Niet (meer) van toepassing: Array.join(). Maar test dit in specifieke situatie

```
2 Use strong concenteration of servey, [plack] from (septemble), More state (F
Performance companies this propert company septemble shirty constant CF
(// abo
(// abo
(// abo)
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```

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#### 5. Events

- Gebruik één document.ready() per pagina.
- Gebruik benoemde functies (in plaats van anonymous functions)
- Vermijd inline event handlers (onclick="...") (==oldschool)

```
1. Use only one Document Ready handler per page. It makes it easier to debug and keep track of the behavior flow.

2. DO NOT use anonymous functions to attach events. Anonymous functions are difficult to debug, maintain, test, or reuse. More info@

$("my_ink").on("click", function(){...}); // BAD

// 6000
function mylinkClickHandler(){...}
$("mylink").on("click", mylinkClickHandler);

3. Document ready event handler should not be an anonymous function. Once again, anonymous functions are difficult to debug, maintain, test, or reuse.

${function(){...}}; // BAD: You can never reuse or write a test for this function.

// 6000
${initPage}; // or ${document}.ready(initPage);
function initPage(){
// Page load event where you can initialize values and call other initializers.
}

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```



## 6. Ajax

- Gebruik \$.ajax() in plaats van de shorthand methods
- Wees specifiek met betrekking tot dataType.
- Gebruik de data:-parameter in plaats van inline querystring
- Gebruik deferred objects/promises in plaats van success:- en error:- callback

```
4. Try to specify the dataType setting so it's easier to know what kind of data you are working with. (See Ajax Template example below)

5. Use Delegated event handlers for attaching events to content loaded using Ajax. Delegated events have the advantage that they can process events from descendant elements that are added to the document at a later time (example Ajax). More into 

$("#parent-container").on("click", "a", delegatedclickHandlerForAjax);

6. Use Promise interface: More Examples 

$.ajax({ ... }).then(successHandler, failureHandler);

// OR
var jqxhr = $.ajax({ ... });
jqxhr.done(successHandler);
jqxhr.fail(failureHandler);
```



# 7. Overig

- · Effecten en animaties
- Plug-ins
- · Chaining en object literals
- · Vermijd mixen van CSS en JavaScript/jQuery

```
Miscellaneous

1. Use Object Herals for parameters.

SmyLink.strr("href", "m").strr("title", "my link").strr("rel", "external"); // BAD, 3 calls to attr()

// 0000, only 1 call to attr()

SmyLink.strt{[
    href: "m",
    title: "my link",
    rel: "external"

));

2. Do not mix CSS with |Query

$("mmydiv").css(("color":red, "font-weight":'bold")); // BAD

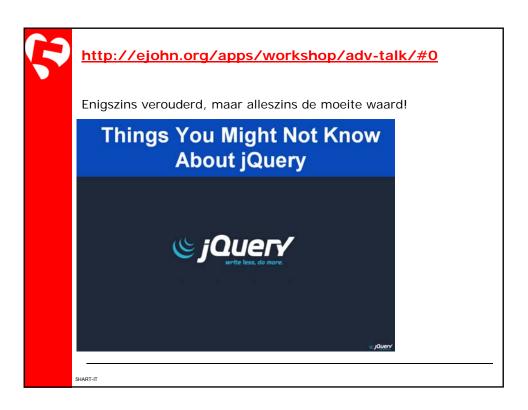
.error { color: red; font-weight: bold; } /* 6000 */
```

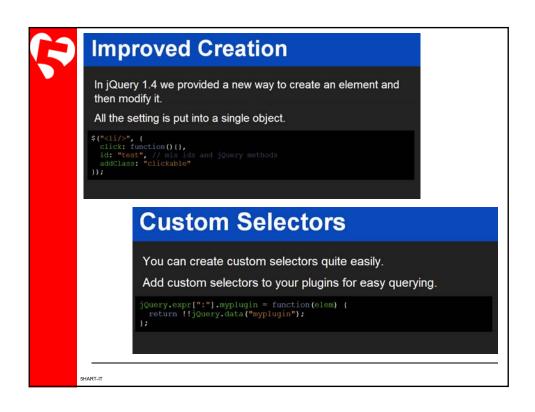


# John Resig over jQuery

De meester aan het woord

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## Leestips

- documentsFragments zijn niet echt doorgebroken.
- Verouderd: opmerkingen over .bind(), .live() en .delegate().
  - Deze zijn in nieuwe versies van jQuery gebundeld in .on()
- Veel issues die genoemd worden als 'nieuw' zijn inmiddels gerealiseerd.

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