

jQuery Core en jQuery UI

dag 3

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Korte herhaling dag 2

- JavaScript `for()` -lussen en `$.each()`
- `localStorage` en `sessionStorage`
- Animaties (`.animate()`) & objecten
- Ajax-functies
 - `.load()`, `$.get()`, `$.post()` en `$.ajax()`

Dag 1: Geschiedenis, Selectors, basisfuncties

Dag 2: localStorage, Animatie en AJAX

Dag 3: Plug-ins en jQuery UI

De standaardfunctionaliteit van jQuery uitbreiden

JQUERY PLUG-INS

Plug-ins

- Doel: standaardgedrag uitbreiden
- Herhaalde gedragingen automatiseren
- Doeleinden:
 - Photo gallery
 - Slideshow
 - Validatie
 - tabellen
 - Drag/Drop
 - ...



Algemene werkwijze

1. jQuery Core invoegen via `<script>`
2. plug-in toevoegen via `<script>`
3. HTML/CSS/JavaScript schrijven
4. plugin activeren via `$`
`('#selectie').plugin();`
5. eventueel: configuratieparameters.

Lees *altijd* de documentatie op de site!

De plug-in Cycle gebruiken

- <http://jquery.malsup.com/cycle/>

```
5 <title>jQuery voorbeeld 01</title>
6 <script src="scripts/jquery-1.7.1.min.js"></script>
7 <script src="scripts/jquery.cycle.all.js"></script>
8 </head>
9
10 <body>
11 <div id="fotoContainer">
12     
13     
14     
15     
16     
17     
18 </div>
19 <script>
20 $(document).ready(function() {
21     $('#fotoContainer').cycle();
22 });
23 </script>
24 </body>
```



Meer plug-ins – categorieën

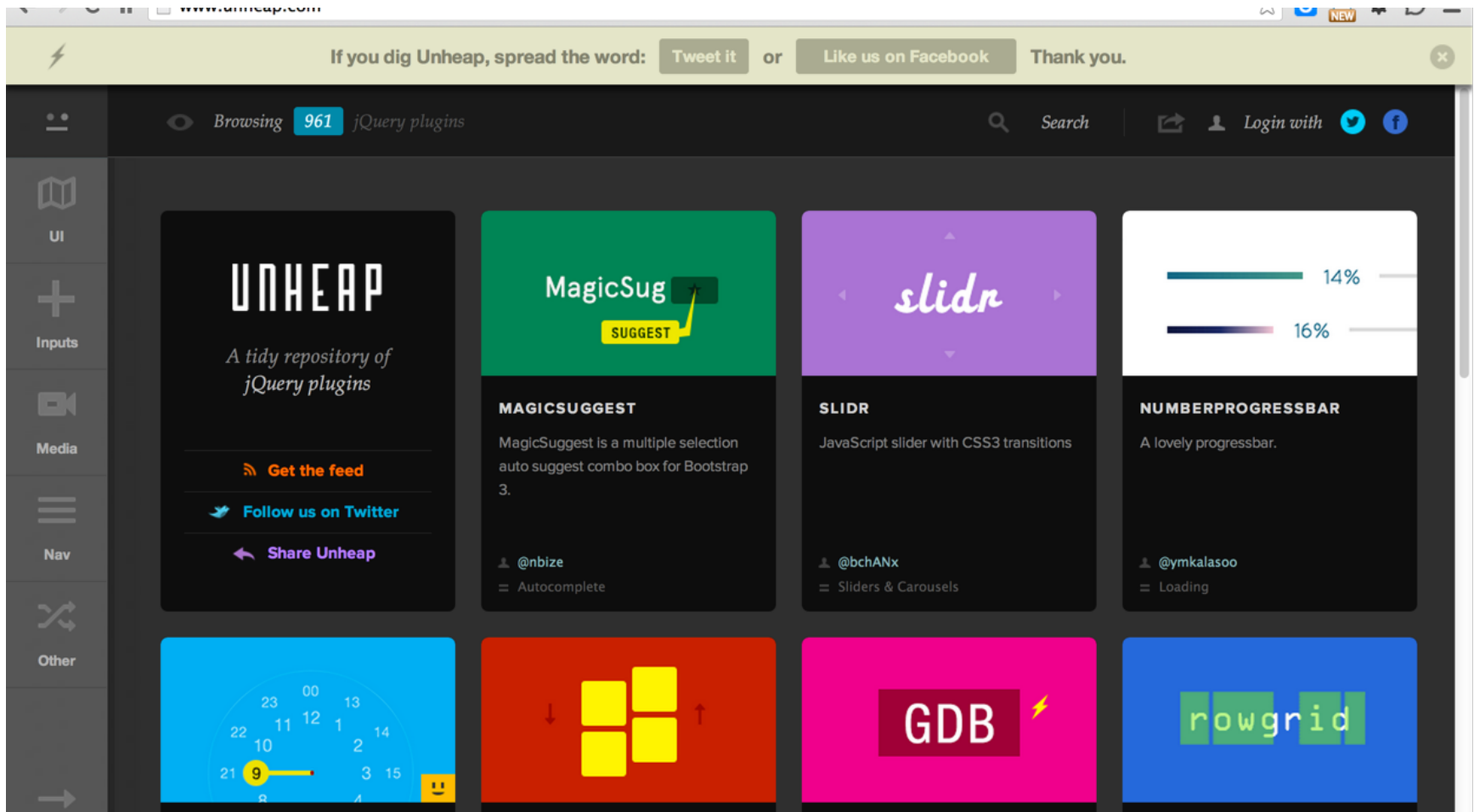
- Animaties
- Formulieren
- Responsive
- Validaties

Algemeen: de kwaliteit is wisselend. Afhankelijk van documentatie van de makers.

Bekijk ook:

- Activiteit op github
- Ondersteunend forum, discussiegroep, StackOverflow?
- Sites die de plug-in gebruiken

Andere repositories



<http://www.unheap.com/>


jQuery Plugin Registry x jQuery Plugins, jQuery Tut x

jquery-plugins.net

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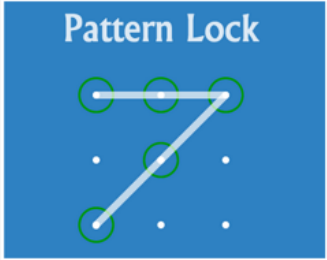
Search

jQuery Plugins

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Pattern Lock – jQuery Plugin for Android Style Pattern Lock

May 20, 2014 239 Others




Pattern Lock is a lightweight plugin to simulate android like pattern lock mechanism for your hybrid app or for a website.

It's easy to configure and style so you can have different type of pattern lock according to your need. Is also provide some methods to use this plugin securely.

[Read More »](#)

Minimus Slider – Responsive jQuery Slider

May 20, 2014 390 Slider Responsive




Minimus Slider is a minimal and compact jQuery slider. It is responsive, it comes with only a few essential parameters that can be set to fit your


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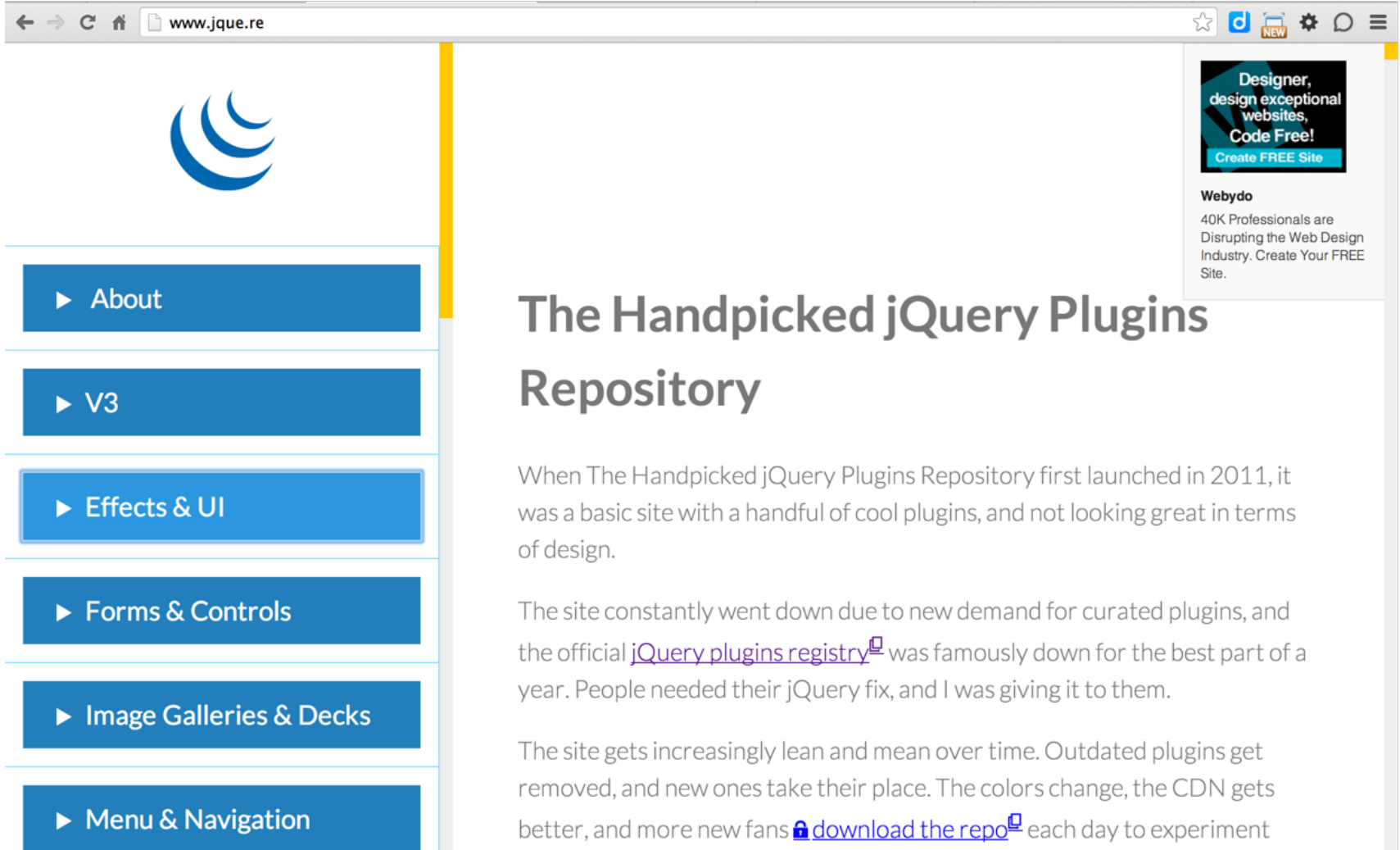
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<http://jquery-plugins.net/>



The screenshot shows a web browser window with the address bar displaying "www.jque.re". The website has a clean, modern design with a blue and white color scheme. On the left, there is a vertical navigation menu with blue buttons containing white text and right-pointing triangles. The main content area features a large heading, a paragraph of text, and another paragraph. On the right side, there is a sidebar with a dark blue box containing white text and a "Create FREE Site" button, followed by a section for "Webydo".

← → ↻ 🏠 www.jque.re ☆ d NEW ⚙️ 🔔 ☰




- ▶ About
- ▶ V3
- ▶ Effects & UI
- ▶ Forms & Controls
- ▶ Image Galleries & Decks
- ▶ Menu & Navigation

The Handpicked jQuery Plugins Repository

When The Handpicked jQuery Plugins Repository first launched in 2011, it was a basic site with a handful of cool plugins, and not looking great in terms of design.

The site constantly went down due to new demand for curated plugins, and the official [jQuery plugins registry](#) was famously down for the best part of a year. People needed their jQuery fix, and I was giving it to them.

The site gets increasingly lean and mean over time. Outdated plugins get removed, and new ones take their place. The colors change, the CDN gets better, and more new fans [download the repo](#) each day to experiment



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<http://www.jque.re/>

Met weinig inspanning snel visuele verfraaiing aanbrengen

JQUERY UI

jQuery UI - kenmerken

- Doel: visuele verfraaiing van de pagina met weinig inspanning
- Betere en consistentere gebruikerservaring
- Onderdelen:
 - 1 Interactions
 - 2 Widgets
 - 3 Utilities
 - 4 Effects

Geschikt voor desktop
(!= mobile)



Interactions

- Draggable
- Droppable
- Resizable
- Selectable
- Sortable

Widgets

- Accordion
- Autocomplete
- Button
- Datepicker
- Dialog
- Menu
- Progressbar
- Slider
- Spinner
- Tabs
- Tooltip

Effects

- Add Class
- Color Animation

jQuery UI Demos

jQuery UI offers a combination of interaction, effects, widgets, utilities, and themes designed to work well together or on their own. Play with the demos, view the source, [build a theme](#), read the [API documentation](#) and start using jQuery UI today.

Interactions

Interactions add basic mouse-based behaviors to any element. You can create sortable lists, resizable elements, drag & drop behaviors and more with just a few lines of code. Interactions also make great building blocks for more complex widgets and applications.

- [Draggable](#)
- [Droppable](#)
- [Resizable](#)
- [Selectable](#)
- [Sortable](#)

Widgets

Widgets are full-featured UI controls that bring the richness of desktop applications to the Web. All widgets provide a solid core with plenty of extension points for customizing behavior, as well as full theming support.

- [Accordion](#)
- [Autocomplete](#)
- [Button](#)
- [Datepicker](#)
- [Dialog](#)
- [Menu](#)
- [Progressbar](#)
- [Slider](#)

Werking jQuery UI

- Eerst jQuery Core toevoegen via `<script>`
- Dan jQuery UI toevoegen
 - Downloaden & zelf samenstellen inhoud
- Functies gebruiken alsof het plugins zijn:
 - `$('#selectie').opdracht()` of
 - `$('#selectie').opdracht({parameters});`



Download Builder

Quick downloads: [Stable \(Themes\)](#) (1.10.3: for jQuery1.6+) | [Legacy \(Themes\)](#) (1.9.2: for jQuery1.6+)
[All jQuery UI Downloads](#)

Version

- ☒ **1.10.3** (Stable, for jQuery1.6+)
- ☐ **1.9.2** (Legacy, for jQuery1.6+)

Components

☒ Toggle All

UI Core

☒ Toggle All

A required dependency, contains basic functions and initializers.

- ☒ **Core**
- ☒ **Widget**
- ☒ **Mouse**
- ☒ **Position**

The core of jQuery UI, required for all interactions and widgets.

Provides a factory for creating stateful widgets with a common API.

Abstracts mouse-based interactions to assist in creating certain widgets.

Positions elements relative to other elements.

Interactions

☒ Toggle All

These add basic behaviors to any element and are used by many components below.

- ☒ **Draggable**
- ☒ **Droppable**
- ☒ **Resizable**
- ☒ **Selectable**

Enables dragging functionality for any element.

Enables drop targets for draggable elements.

Enables resize functionality for any element.

Allows groups of elements to be selected with the mouse.

Onderdelen jQuery UI

- Interactions
 - Interactie met de bezoeker: drag/drop, sorteren en selecteren van elementen
- Widgets
 - visuele hulpjes: Accordion, Autocomplete, Slider, Tabs
- Utilities & Effects
 - Elementen positioneren, animatie-effecten

Eenvoudige widgets

- DatePicker
- Slider
- Functionaliteit geven met JavaScript



Drag & Drop

1. Elementen versleepbaar maken
2. Elementen als Dropzone aanmerken
3. Zelf JavaScript schrijven voor verdere afhandeling
 - Ook: zelf HTML/CSS toevoegen

Elementen versleepbaar maken

- Let er op dat jQuery UI is geladen
- Gebruik de method `.draggable()`

```
13 <script>
14 $(document).ready(function(e) {
15     // alle jquery-script komt hier
16     // elementen draggable maken
17     $('.dragme').draggable();
18     $('.dropzone').droppable(
19     (drop: function( event, ui ) {
```



```
14 $(document).ready(function(e) {  
15     // alle jquery-script komt hier  
16     // elementen draggable maken  
17     $('.dragme').draggable();  
18     $('.dropzone').droppable(  
19         {drop: function( event, ui ) {  
20             if(ui.draggable.data('nummer')== $(this).data('accept')){  
21                 alert('gefeliciteerd!');  
22             }  
23             else{  
24                 alert('jammer, probeer het nog een keer');  
25             }  
26         },  
27         accept : '.dragme'  
28     });  
29 });  
30 });
```

```
70 <body>  
71 <!-- Inhoud van de pagina -->  
72 <div class="dragme tekst" id="drag1" data-nummer="1">1</div>  
73 <div class="dragme tekst" id="drag2" data-nummer="2">2</div>  
74 <div class="dragme tekst" id="drag3" data-nummer="3">3</div>  
75 <div class="dropzone oranje tekst" id="dropzone1" data-accept="1"><p>1</p></div>  
76 <div class="dropzone groen tekst" id="dropzone2" data-accept="2"><p>2</p></div>  
77 <div class="dropzone rood tekst" id="dropzone3" data-accept="3"><p>3</p></div>  
78 </body>  
79 </html>  
80
```

1

2

3

3

2

1

Tal van parameters

- Parameters doorgeven via JavaScript-object:

```
<Code />  
  
$('#makeMeDraggable').draggable( {  
    option1: value1,  
    option2: value2,  
    ...  
} );
```

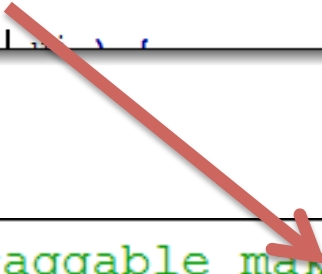
Overzicht van alle parameters / options:
<http://jqueryui.com/demos/draggable/>

Veelgebruikt:

- containment
- cursor
- snap
- stack

Voorbeeld parameters

```
14 $(document).ready(function(e) {  
15     // parameters voor Drag/Drop  
16     var dragParameters = {  
17         containment: '#container',  
18         cursor      : 'move',  
19         snap        : '.draggable',  
20         stack       : '.dragme',  
21         helper      : 'clone'  
22     }  
23     // elementen draggable maken  
24     $('.dragme').draggable(dragParameters);  
25     $('.dropzone').droppable(  
26         {drop: function( event, ui ) {
```



```
    // elementen draggable maken  
    $('.dragme').draggable(dragParameters);  
    $('.dropzone').droppable(  
        {
```

Het parameter-object is een gewone object literal. Let dus op accolades, komma's, aanhalingstekens!

DatePicker

- Datum-formattering toevoegen aan tekstveld
- Let op: *geen* duizenddingendoekje
 - alleen visuele weergave
 - Zelf JavaScript schrijven voor verdere afhandeling


```
17 <!-- Inhoud van de pagina -->
18 <input type="text" id="datum" /> Datum
19 <script>
20 $(document).ready(function(e) {
21     // alle jQuery-script komt hier
22     $('#datum').datepicker();
23 });
24 </script>
25 </body>
```

Ook weer: tal van parameters.

Bekijk deze zelf op

<http://jqueryui.com/demos/datepicker/>



April 2012						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

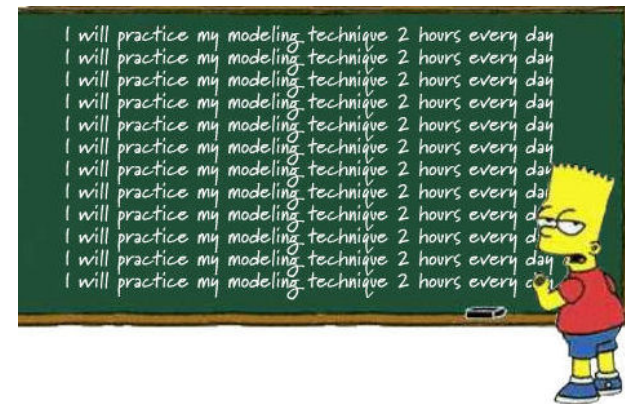
Accordion

- Live demo
 - Zelf doen
 - Tip: Copy-paste vanaf jqueryui.com
 - Maar: let op *wat je* kopieert en plakt



Oefening

- Maak zelf een interface met jQuery UI
- Lees de documentatie,
- Test diverse widgets



Diepgaande jQuery-kennis

MEER JQUERY CORE FUNCTIES

jQuery Core

- Indeling in categorieën
- Twee delen
 - Bovenste blok: Logboeken, API-browser
 - Onderste blok: API functies

jQuery API

[New or Changed in 1.7](#)

[Raw XML API Dump](#)

[Dynamic API Browser](#)

[jQuery API Book](#)

Keyboard navigation now available! Use up, down, tab, shift+tab, shift+upArrow and enter to navigate.

Browse the jQuery API

[All](#)

[+ Ajax](#)

[Attributes](#)

[Callbacks Object](#)

[Core](#)

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[Dimensions](#)

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[Forms](#)

[Internals](#)

[+ Manipulation](#)

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[Offset](#)

[+ Plugins](#)

[+ Properties](#)

.each()

- Een functie uitvoeren voor elk van de elementen in de selectie
- Nodig: als je *meerdere* opdrachten wilt gebruiken voor elementen binnen een set
- Notatie: \$

```
( '#selectie' ).each (function () {...}) ;
```

Bijvoorbeeld: hyperlinks selecteren →
tooltip instellen → click()-event
instellen → *en* speciale opmaak
toekennen

```
// state van de accordion met categorieën herstellen
var categoryID = localStorage.getItem('categoryID');
if (categoryID) {
    $('#accordion h2').each(function () {
        if ($(this).data('categoryid') == categoryID) {
            $(this).click();
        }
    });
}
```

Werken met attributen

- `.attr()` en `.removeAttr()`
- Werk rechtstreeks met HTML-attributen
- Waarde ophalen of instellen
- Demo...



Werken met classes

- CSS-klassen toekennen, verwijderen en testen op aanwezigheid
 - `.addClass()`
 - `.removeClass()`
 - `.hasClass()`
 - `.css ({rechtstreekse css-eigenschappen})`

DOM-tree manipulatie

- Inside selectie
 - `.append()` en `.prepend()`,
 - `.appendTo()` en `.prependTo()`
- Outside selectie
 - `.after()` en `.before()`
 - `.insertAfter()` en `.insertBefore()`
- Werking gelijk, schrijfwijze == anders

Utilities

- `$.browser()`
 - Check browser en –functies.
 - Onbetrouwbaar, maar voldoende voor eenvoudige checks
- `$.isObject()` , `$.isArray()`
- `$.trim()`

Tot slot

- jQuery, selectors, functies
- AJAX, LocalStorage, API, plug-ins...
- jQuery UI

Vragen?

Bedankt voor jullie aandacht