

# Outils

Magali Contensin



- Inspection du document et du style
- Aide à la création CSS
- Validation et optimisation CSS et HTML
- Firebug
- Modernizr
- JQuery
- Bibliothèques graphiques JavaScript



C'est un test de style.

- Copy
- Select All
- Video Downloader
- Media Pimp Player
- Screenshot
- Search Google for "test"
- View Selection Source

Inspect Element



The screenshot displays a web browser's developer tools interface. The main content area shows a page with a title "titre" and a paragraph "C'est un test de style." where the word "test" is highlighted. A context menu is open over "test", with "Inspect Element" selected. The "Rules" panel on the right shows the following styles:

- inline
- element { }
- inline:11
- em {
  - color: red;}
- Inherited from p (inline:10)
  - color: blue;}
- Inherited from p (style.css:1)
  - font-family: Calibri;
  - color: purple;}

The breadcrumb at the bottom of the developer tools shows the path: Inspect > html > body > p > em. The HTML view at the bottom shows the following code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
  <head>
  <body>
    <h1 style="text-align:center; color:navy">titre</h1>
    <p>
      C'est un
      <em> test </em>
      de style.
    </p>
    <p id="p2">
    <p class="ex" style="color:black">test de classe</p>
```



- Copier
- Rechercher test avec Google
- Procéder à l'inspection de l'élément
- Rechercher dans Dictionnaire
- New TextWrangler Document with Selection

titre

C'est un **test** de style.

Un 2eme *paragraphe*

Elements Resources Network Scripts Timeline Search Elements

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
<html>
  <head>...</head>
  <body>
    <h1 style="text-align:center; color:
    navy">titre</h1>
    <p>
      "C'est un "
      <em>test</em>
      " de style."
    </p>
    <p id="p2">...</p>
    <p class="ex" style="color:black">test de
    classe</p>
  </body>
</html>
```

Computed Style Show inherited

Styles + [icon] [icon]

element.style {

```
}
}
Matched CSS Rules
em { test_style.html:11
  color: red;
}
i, cite, em, var, user agent stylesheet
address, dfn {
  font-style: italic;
}
Inherited from p
p { test_style.html:10
  color: blue;
}
p { style.css:1
  font-family: Calibri;
  color: purple;
}
```

Metrics

Properties

DOM Breakpoints

Event Listeners

html body p em



- test de style.
- Rechercher dans Spotlight
- Rechercher avec Google
- Rechercher dans Dictionary
- Copier
- Parole
- Inspecter l'élément
- New TextWrangler [ ... ]

C'est un *test de style.*

# titre

Un 2eme *paragraphe*

The screenshot shows a web browser's developer tools interface. The top toolbar includes icons for 'Éléments', 'Ressources', 'Réseau', and 'Scripts', along with a search bar labeled 'Rechercher Éléments'. The main area is divided into two panels: the left panel shows the DOM tree, and the right panel shows the CSS styles for the selected element.

**DOM Tree:**

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">
<html>
  <head>...</head>
  <body>
    <h1 style="text-align:center; color:
    navy">titre</h1>
    <p>
      "C'est un "
      <em>test</em>
      " de style."
    </p>
    <p id="p2">...</p>
    <p class="ex" style="color:black">test de
    classe</p>
  </body>
</html>
```

**CSS Styles:**

- Règles CSS concordantes: `em { color: red; }` (test\_style.html:11)
- feuille de style de l'agen...: `i, cite, em, var, address { font-style: italic; }`
- Hérité de p: `p { color: blue; }` (test\_style.html:10)
- style.css:1: `p { font-family: Calibri; color: purple; }`

The breadcrumb at the bottom indicates the current selection path: `html > body > p > em`.

titre

C'est un *test* de style.

Un 2eme *paragraphe*

test de classe

Zoom (120%)

Documents Scripts Réseau Ressources Stockage Erreurs (17) Ut

test CSS

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
<html>
  <head>
  <body>
    <h1 style="text-align:center; color:navy">
    <p>
      C'est un
      <em>
      de style.
    </p>
    <p id="p2">
    <p class="ex" style="color:black">
  </body>
</html>
```

Styles Propriétés Disposition Rechercher

Filtre

Style calculé

Styles

```
em {
  color: #FF0000;
}
em {
  font-style: italic;
}
Hérité de p
p {
  color: #0000FF;
}
p {
  color: #000000;
  font-family: "Calibri";
}
```

html body p em



- Imprimer
- Fichier
- Zoom (100%)
- Sécurité
- Afficher les téléchargements Ctrl+J
- Gérer les modules complémentaires
- Outils de développement F12
- Atteindre les sites épinglés
- Options Internet
- À propos de Internet Explorer

titre

C'est un **test** de style.

Un 2eme *paragphe*

test de classe

Fichier Rechercher Désactiver Affichage Images Cache Outils Valider

Mode navigateur : IE9 Mode de document : normes IE9

HTML CSS Console Script Profiteur Réseau Recherche HTML...

Style Suivre les styles Disposition Attributs

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w...>
<html>
  <head>
  <body>
    Texte - Noeud de texte vide
    <h1 style="text-align: center; color: navy;">
    Texte - Noeud de texte vide
    <p>
      Texte - C'est un
      <em>
      Texte - de style.
    Texte - Noeud de texte vide
    <p id="p2">
    Texte - Noeud de texte vide
    <p class="ex" style="color: black;">
    Texte - Noeud de texte vide
```

Style

- inherited - p
- color: purple; style.css
- font-family: Calibri; test\_style.html
- color: blue; test\_style.html
- color: red;



### titre

C'est un **test** de style.

Un Zeme *paragraphe*

test de classe

The screenshot shows the Firebug developer tool interface. The top toolbar includes navigation icons and tabs for 'Cons...', 'HTML', 'CSS', 'Script', 'DOM', 'Net', 'YSlow', and 'Firef'. The 'HTML' tab is active, showing a tree view of the document structure. The 'Style' pane on the right shows the computed style for the selected element, including inherited styles from parent elements.

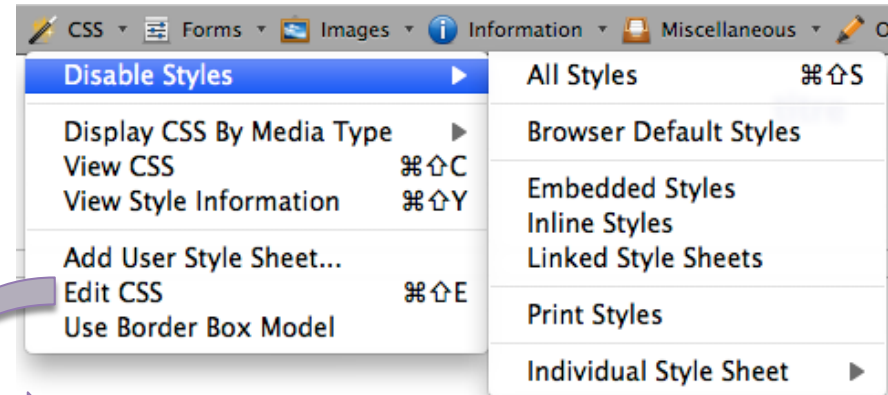
```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.o
<html>
  <head>
  <body>
    <h1 style="text-align:center; color:navy">titre</h1>
    <p>
      C'est un
      <em> test </em>
      de style.
    </p>
    <p id="p2">
      <p class="ex" style="color:black">test de classe</p>
    </p>
  </body>
</html>
```

**Style** | Computed | Layout | DOM

```
em {
  color: red;
}
Inherited from p
p {
  color: blue;
}
p {
  color: purple;
  font-family: Calibri;
}
```



### Web developer toolbar

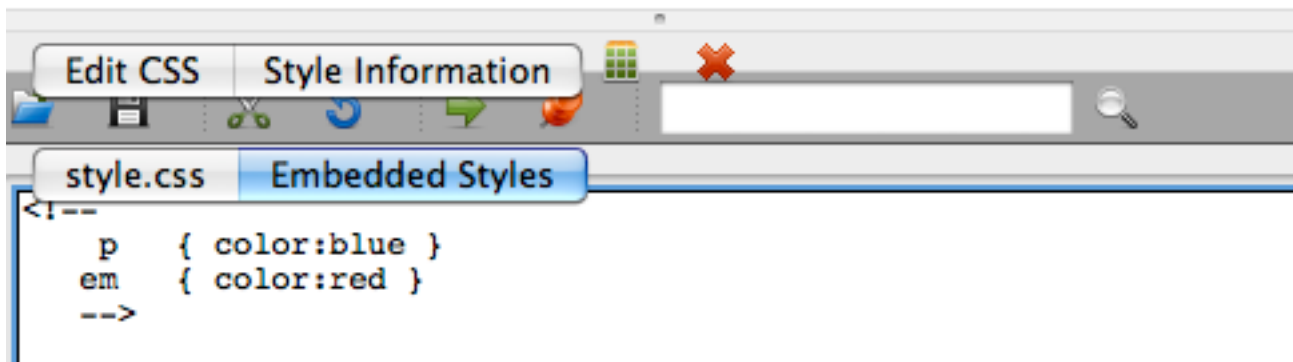


titre

C'est un **test** de style.

Un 2eme *paragraphe*

test de classe



- Inspection du document et du style
- **Aide à la création CSS**
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- JQuery
- Bibliothèques graphiques JavaScript

- ❑ SkyCSS tool <http://skycsstool.sourceforge.net>
- ❑ Simple CSS <http://www.hostm.com/css>

The screenshot shows the Simple CSS web tool interface. The window title is "Simple CSS". The main menu includes "New Project", "Duplicate", "Rename", "Delete", "Import CSS", and "Export CSS". The "Media" dropdown is set to "Default". The "CSS Styles" list on the left includes "body", "a", "p", and "tag". The "Text" tab is selected, showing various font and text formatting options. The font family is set to "Arial", "Arno Pro Italic", and "Unchanged". The font size is 12 pixels. The font style is "Italic". The text decoration options include "None", "Underline", "Linethrough", "Overline", and "Blink". The text alignment is "Unchanged". The text transform is "Unchanged". The white space is "Unchanged". The direction is "Unchanged". The unicode-bidi is "Unchanged". The text indent is "Unchanged". The letter spacing is "Unchanged". The word spacing is "Unchanged". The list style image is "Unchanged". The list style type is "Circle". The list style position is "Unchanged".

*This is an instant preview*

Simple CSS 2.1 Copyright © 2009 HostM.com Web Hosting [Online Quick Start Guide](#)

- Textes, polices
  - ▣ Typetester

The screenshot shows the Typetester website interface. At the top, there's a red header with the logo and the text "TYPETESTER COMPARE SCREEN TYPE". Below the header, there's a "sample text" area containing a paragraph of text. To the right of the text, there are buttons for "about", "requirements", and "step by step". Below the text, there's a "reset settings on this computer" button and a "Get CSS for:" button, which is circled in red. The "Get CSS for:" button has "1st", "2nd", and "3rd" column options, with "1st" selected. Below the text, there are three columns of settings for font and column settings. Each column has a "Choose typeface from the list..." dropdown menu, with "Arial" selected for the first column, "Verdana" for the second, and "Verdana" for the third. Below the font settings, there are "column settings" for each column, including "size", "leading", "tracking", "alignment", "word space", "decoration", "color", and "background". The first column has a size of "1.5em", leading of "1.5em", tracking of "0", alignment of "justify", word space of "normal", decoration of "none", color of "#444", and background of "#fff". The second column has a size of "1.6em", leading of "1.5em", tracking of "0", alignment of "left", word space of "normal", decoration of "none", color of "#444", and background of "#fff". The third column has a size of "1.6em", leading of "1.5em", tracking of "0", alignment of "right", word space of "normal", decoration of "none", color of "#444", and background of "#fff". Below the settings, there's a color picker tool with a plus sign and a vertical color bar. The text is displayed in three columns, with the first column having a light pink background and the word "REGULAR" written vertically on the left side.

- Textes, polices

- ▣ csstypeset

<http://www.csstypeset.com>

csstypeset news

LETTERPRESS FOR THE DIGITAL AGE

The screenshot shows the csstypeset online tool interface. It features two main text areas: 'Enter Text' on the left and 'View CSS' on the right. The 'Enter Text' area contains the instruction 'Paste the text you want to modify here.' The 'View CSS' area displays the following CSS code: 

```
font-family: verdana,sans-serif;
font-size: 18px;
font-weight: bold;
text-align: center;
```

Below the text areas is a control panel with the following elements:

- Font Family: Verdana (dropdown menu)
- Font Size: 18 (input field) px (dropdown menu)
- Font Color: 000000 (input field) with a color picker icon
- Text formatting buttons: B (Bold), I (Italic), U (Underline), S (Strikethrough), TT (Monospace), Tr (Text Right), and alignment buttons (Left, Center, Right, Justify).
- Three sliders for text alignment: Left, Center, and Right, each with a '1' below it.

- Fond, cadre, ombre
  - ▣ layerstyles 1.0 <http://layerstyles.org>



- Mise en page
  - ▣ CSS Layout Generator <http://csslayoutgenerator.com>
  - ▣ CSS Sprites <http://csssprites.com>

[Generator](#) [About](#)

## CSS Layout Generator

**DOCTYPE:**

**CSS Reset:**

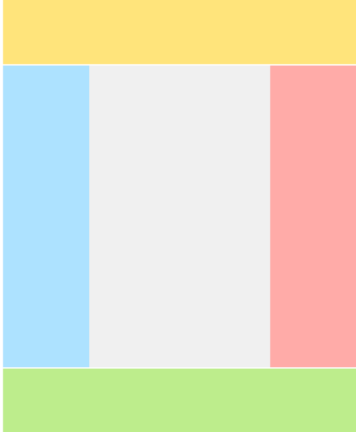
**Layout width:**  
 Fixed width:  px  
 Liquid

**Header:**  
 Specify height

**Sidebars:**  
 1 sidebar       1 left, 1 right  
 2 sidebars       both left      width:  px  
 No sidebars       both right      width:  px

**Footer:**  
 Specify height

**Preview:**



**Add site to bookmarks:**

- Inspection du document et du style
- Aide à la création CSS
- **Validation et optimisation CSS et HTML**
- Firebug
- Modernizr
- JQuery
- Bibliothèques graphiques JavaScript



# Outils

## validation et optimisation CSS et HTML

- ❑ W3C Validation <http://jigsaw.w3.org/css-validator>
- ❑ CSS Lint <http://csslint.net>
- ❑ CSS Tidy online <http://csstidyonline.com>
- ❑ CSS Minify <http://cssminify.net>
- ❑ Minifyme <http://code.google.com/p/minifyme>

### CSS LINT

Will hurt your feelings\*  
(And help you code better)

CSS lint found 0 errors and 0 warnings.

RESTART



CSS Validation Service

Check Cascading Style Sheets (CSS) and (X)HTML documents with style sheets

By URI

By file upload

By direct input

- ❑ W3C Validation <http://validator.w3.org>
- ❑ HTML Tidy <http://tidy.sourceforge.net>

### CSSTidy.

How would you like to enter your data?

By direct input

By file upload

By URI

CSS:

copy and paste your inline css..

Personalize your optimization.

Compression level:

Low (for development)

Options:

1 selected

clear

OPTIMIZE YOUR CSS



Markup Validation Service

Check the markup (HTML, XHTML, ...) of Web documents

Jump To:

Notes and Potential Issues

Congratulations - Icons

This document was successfully checked as HTML5!

- Inspection du document et du style
- Aide à la création CSS
- Validation et optimisation CSS et HTML
- **Firebug**
- Modernizr
- JQuery
- Bibliothèques graphiques JavaScript



Extension pour Firefox qui permet de :

<http://www.getfirebug.com>

- visualiser et modifier les styles CSS de la page (1) ;
- obtenir les temps de téléchargement des fichiers HTML, CSS, images, JS, ... (2) ;
- visualiser les requêtes et réponses HTTP et AJAX (2) ;
- visualiser et modifier l'arbre du document (3) (4) ;
- visualiser le code JavaScript, le déboguer (5) et mesurer la performance du code (6).
- visualiser les erreurs CSS et JavaScript (6).

6

5

2

4

3

1

Choisir une agence :

Nom

Pays

Envoyer

## □ Onglet HTML

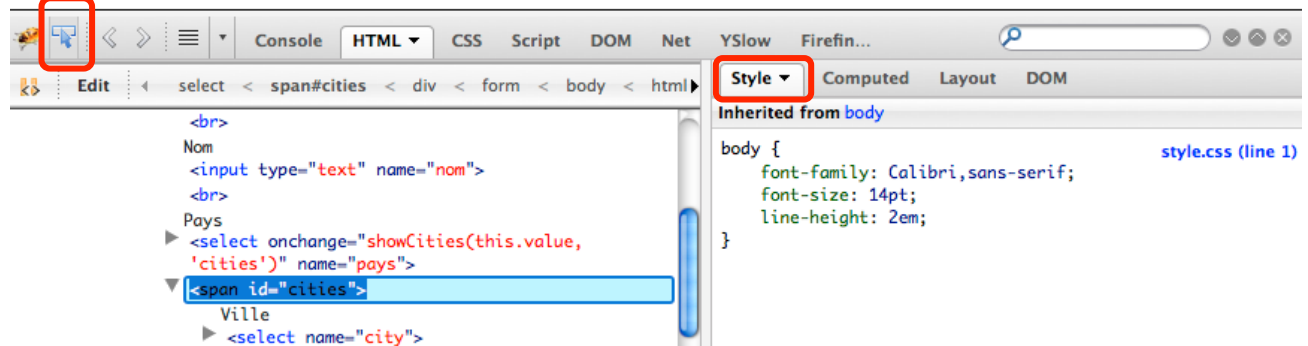
### □ Mode Inspect

### □ Voir/modifier le code HTML

Choisir une agence :

Nom

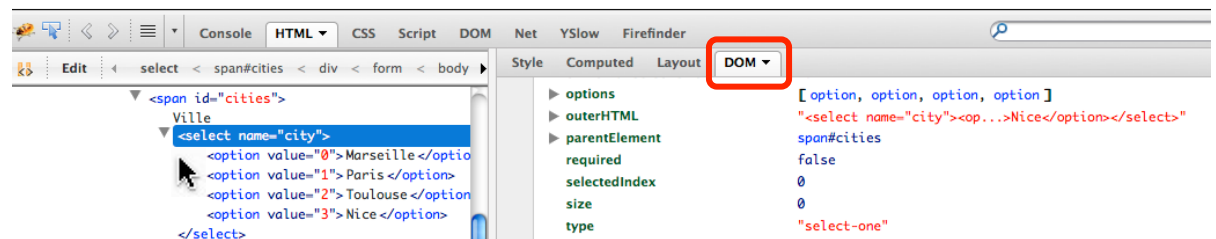
Pays  Ville



The screenshot shows the Firebug interface with the HTML panel selected. The breadcrumb path is `select < span#cities < div < form < body < html`. The selected element is `<span id="cities">`, which contains a `Ville` label and a `<select name="city">` element. The `Style` panel is also visible, showing the default body styles.

## □ Onglet DOM

Pays  Ville




The screenshot shows the Firebug interface with the DOM panel selected. The breadcrumb path is `select < span#cities < div < form < body`. The selected element is `<select name="city">`, which contains four options: `<option value="0">Marseille</option>`, `<option value="1">Paris</option>`, `<option value="2">Toulouse</option>`, and `<option value="3">Nice</option>`. The DOM tree shows the `options` array and other properties of the `select` element.

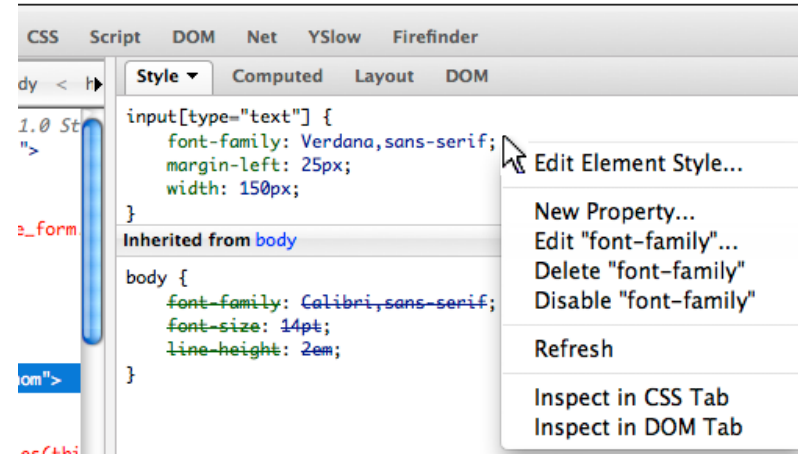
## □ Onglet CSS

### □ Visualiser style, couleur, image

```
div.fiche0 {  
  border-color: #FF9955;  
  margin-left: 20px;  
}
```




```
#patchwork {  
  background-image: url(images/patch_decoupe.gif);  
  background-repeat: no-repeat;  
  height: 82px;  
  left: 54px;  
  position: absolute;  
}
```



### □ Modifier une propriété et sa valeur, ajouter une propriété

```
body {  
  background-color: aliceBlue;  
  margin-top: 60px;  
}
```

```
BODY {  
  background-color: white;  
  margin-top: 60px;  
}
```

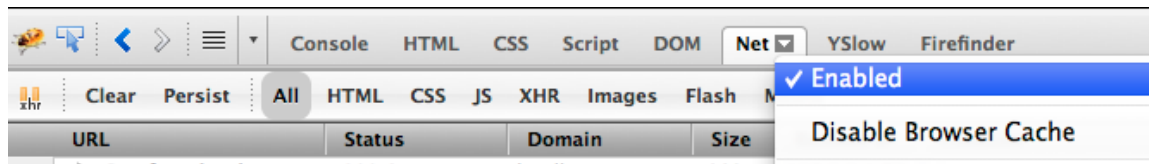


### □ Désactiver

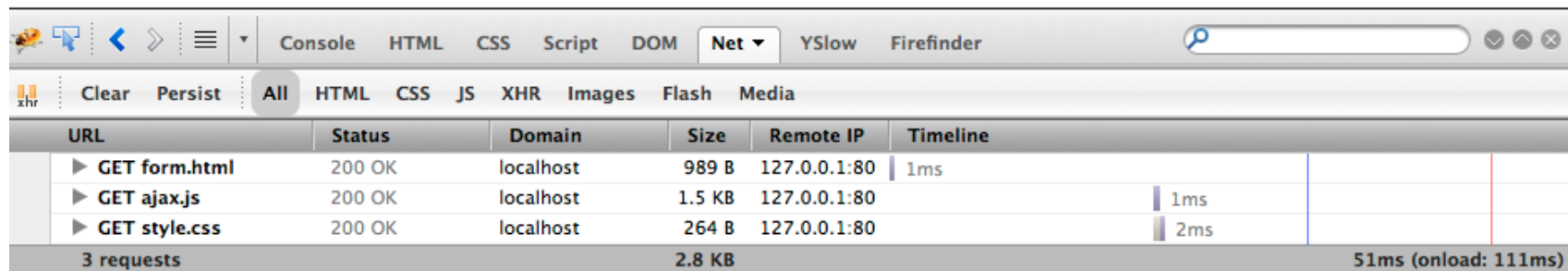
```
BODY {  
  background-color: white;  
  margin-top: 60px;  
}
```



## □ Onglet Net



nombre de fichiers téléchargés (requêtes), ordre de téléchargement, poids et temps de téléchargement par fichier et global.

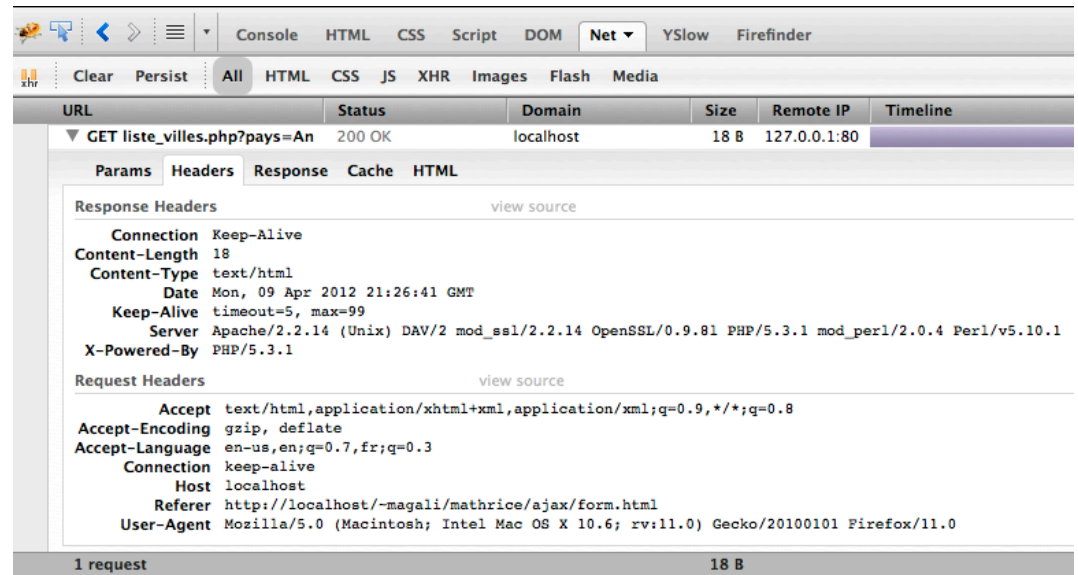
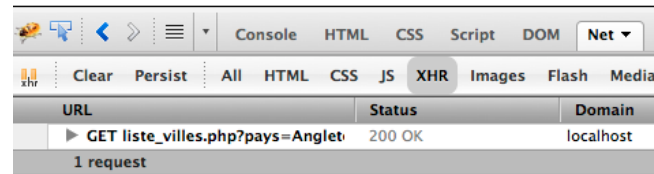


URL	Status	Domain	Size	Remote IP	Timeline
▶ GET form.html	200 OK	localhost	989 B	127.0.0.1:80	1ms
▶ GET ajax.js	200 OK	localhost	1.5 KB	127.0.0.1:80	1ms
▶ GET style.css	200 OK	localhost	264 B	127.0.0.1:80	2ms
3 requests			2.8 KB		51ms (onload: 111ms)

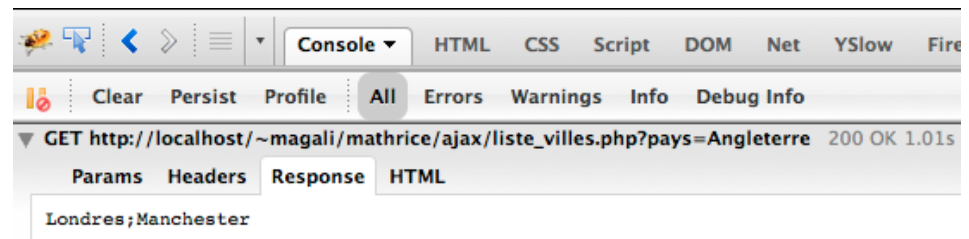
## □ Requêtes AJAX

### Onglet Net (XHR)

En-têtes de la  
réponse et de la  
requête, paramètres  
envoyés et corps de  
la réponse

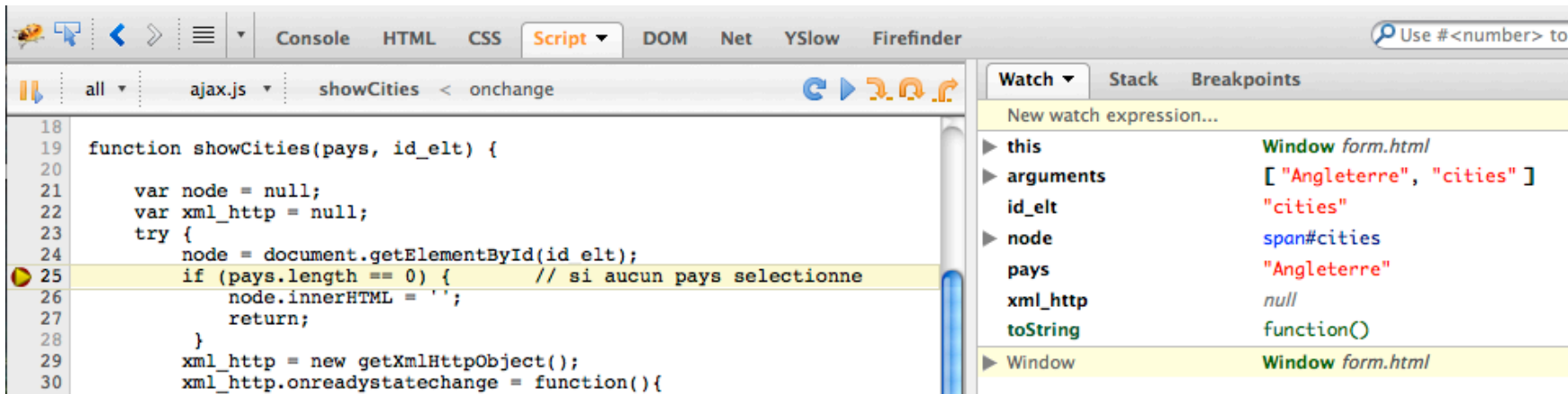


### Console



## □ Onglet Script : débogueur JavaScript

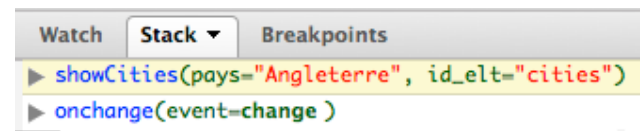
Pays



```
18
19 function showCities(pays, id_elt) {
20
21     var node = null;
22     var xml_http = null;
23     try {
24         node = document.getElementById(id_elt);
25         if (pays.length == 0) { // si aucun pays selectionne
26             node.innerHTML = '';
27             return;
28         }
29         xml_http = new getXmlHttpRequest();
30         xml_http.onreadystatechange = function(){
```

```
node = document.getElementById(id_elt);
if (pays.length == 0) {
    node.innerHTML = '';
    return "Angleterre";
}

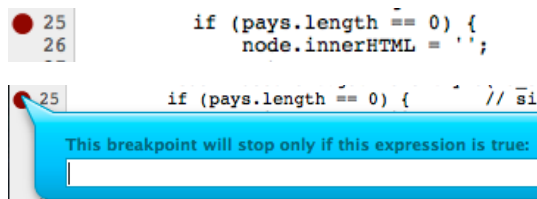
node = document.getElementById(id_elt);
if (pays.length == 0) {
    node.innerHTML = '';
    return;
}
```



Watch Stack Breakpoints

- showCities(pays="Angleterre", id\_elt="cities")
- onchange(event=change)

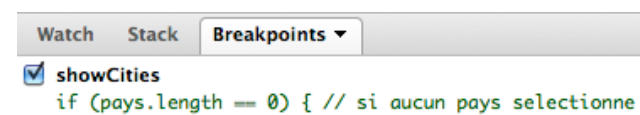
## Points d'arrêt



```
25     if (pays.length == 0) {
26         node.innerHTML = '';
27     }

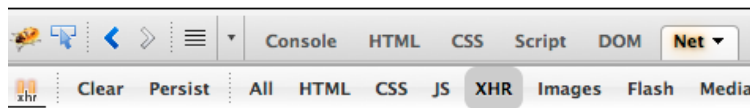
25     if (pays.length == 0) { // si aucun pays selectionne
```

This breakpoint will stop only if this expression is true:



Watch Stack Breakpoints

- showCities  
if (pays.length == 0) { // si aucun pays selectionne



Console HTML CSS Script DOM Net

Clear Persist All HTML CSS JS XHR Images Flash Media

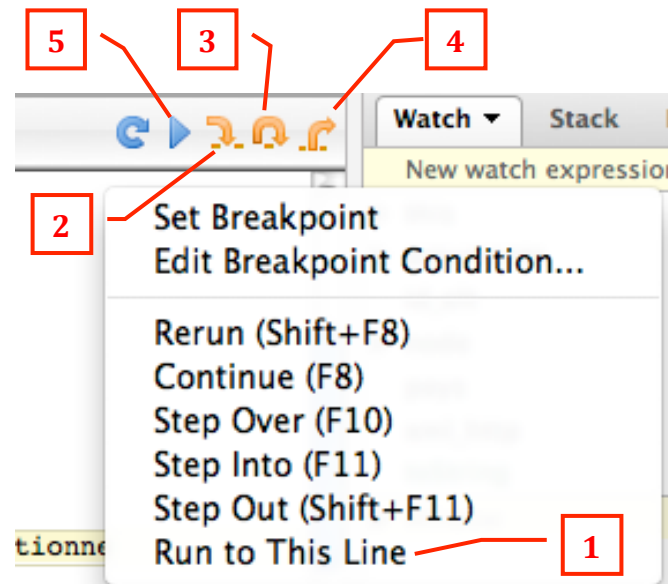
break sur une requête XHR



## □ Onglet Script

### ▣ Se déplacer dans le code :

- exécuter jusqu'à une ligne donnée (clic droit + Run to this line) (1)
- mode pas à pas : Step Into (2) – instruction suivante ;
- instruction suivante sans entrer dans les fonctions : Step Over (3) ;
- retourner à la ligne qui a appelé la fonction courante : Step Out (4) ;
- passer au point d'arrêt suivant ou terminer l'exécution du script (5).

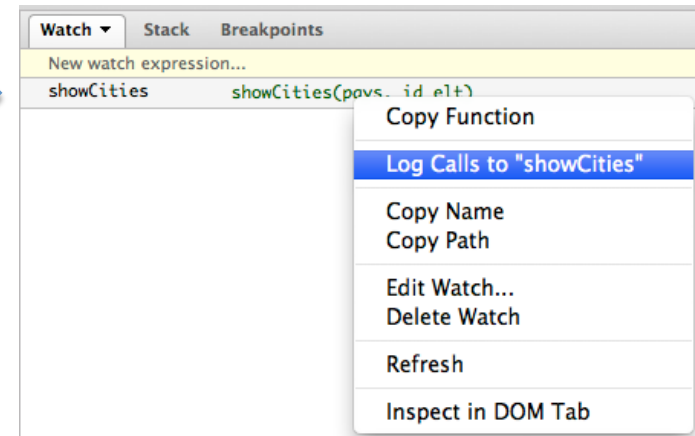


## □ Onglet Script

### □ logs

```
function showCities(pays, id_elt) {  
    var node = null;  
    var xml_http =  
    try {  
        node = docu  
        if (pays.l
```

Copy  
Copy Source  
Add Watch



Watch Stack Breakpoints  
New watch expression...  
showCities showCities(pays, id\_elt)  
Copy Function  
Log Calls to "showCities"  
Copy Name  
Copy Path  
Edit Watch...  
Delete Watch  
Refresh  
Inspect in DOM Tab



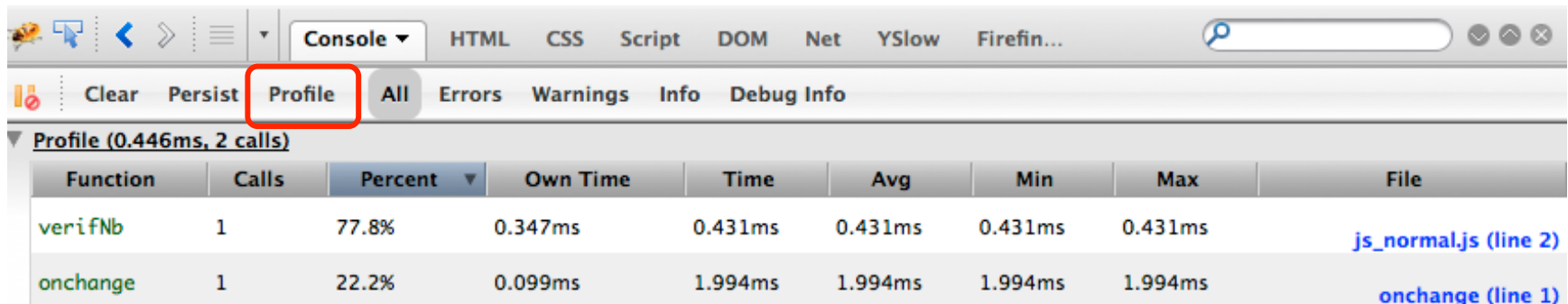
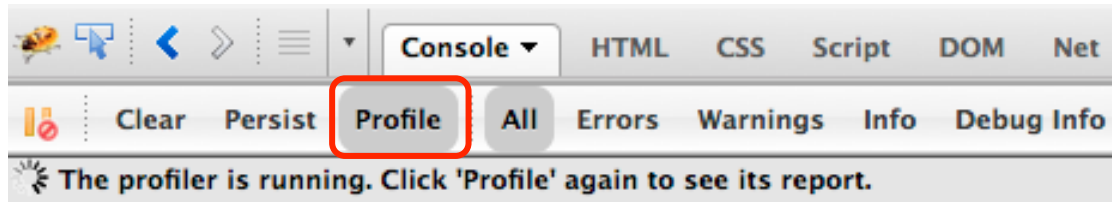
Console HTML CSS Script DOM Net  
Clear Persist Profile All Errors Warnings Info Debug Info  
▶ showCities(pays="France", id\_elt="cities")  
▶ showCities(pays="Angleterre", id\_elt="cities")  
▶ showCities(pays="Italie", id\_elt="cities")  
▶ showCities(pays="Belgique", id\_elt="cities")

### □ Erreurs Javascript



Console HTML CSS Script DOM Net  
Clear Persist Profile All Errors Warnings Info Debug Info  
▶ showCities(pays="Angleterre", id\_elt="cities") ajax.js (line 21)  
✖ tab\_ville is not defined  
code\_html += '<option value="' + i + '>' + tab\_ville[i] + '</option>'; ajax.js (line 40)

## □ Profiler





Function	Calls	Percent	Own Time	Time	Avg	Min	Max	File
verifNb	1	77.8%	0.347ms	0.431ms	0.431ms	0.431ms	0.431ms	<a href="#">js_normal.js (line 2)</a>
onchange	1	22.2%	0.099ms	1.994ms	1.994ms	1.994ms	1.994ms	<a href="#">onchange (line 1)</a>

- Inspection du document et du style
- Aide à la création CSS
- Validation et optimisation CSS et HTML
- Firebug
- **Modernizr**
- JQuery
- Bibliothèques graphiques JavaScript

Détecte la disponibilité native HTML5 et CSS3 (utilise JS)

<http://www.modernizr.com>

**Ajoute des classes de style** dans l'élément html pour indiquer les fonctionnalités supportées ou non



```
<html class="no-js">
<head>
<title>test modernizr</title>
<script type="text/javascript" src="modernizr.js"></script>
</head>
```

```
<html class=" js canvas geolocation draganddrop borderradius boxshadow csscolumns
cssgradients no-cssreflections csstransforms video audio localStorage ...">
```

Si le navigateur supporte border-radius

=> classe **borderradius**

Si le navigateur ne supporte pas border-radius

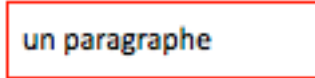
=> classe **no-borderradius**

Apport de Modernizr : amélioration progressive, le style est appliqué conditionnellement

```
<html class="no-js">
<head>
  <title>test modernizr</title>
  <script type="text/javascript" src="modernizr.js"></script>
  <style type="text/css">
    .borderradius #par1 {
      border: 1px solid silver;
      border-radius: 15px;
    }
    .no-borderradius #par1{
      border: 1px solid red;
    }
  </style>
</head>
<body>
  <p id='par1'>un paragraphe</p>
</body>
</html>
```

IE8


no-borderradius



un paragraphe

Firefox

borderradius



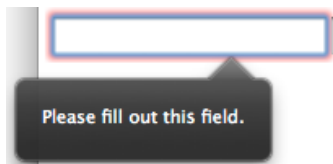
un paragraphe

**Crée un objet JS Modernizr** dont les propriétés contiennent le résultat de la détection

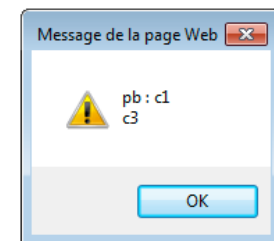
Propriétés liées à la détection CSS3 : `borderradius`, `boxshadow`, `csscolumns`, ...

Propriétés liées à la détection HTML5 : `canvas`, `date`, `email`, `url`, `range`, ...

```
<form action='test.php'>
  <input type='text' name='c1' required>
  <input type='text' name='c2'>
  <input type='text' name='c3' required>
  <input type='submit'>
</form>
```



```
if (!Modernizr.input.required) {
  var regexp = /^(\\s+)|(\\s+)$/g;
  var form = document.forms[0];
  form.onsubmit = function(){
    var ch = "";
    for (var i=0; i<form.elements.length; i++){
      if (form.elements[i].getAttribute('required') != null &&
        form.elements[i].value.replace(regexp, "") == ""){
        ch += form.elements[i].name+"\n";
      }
    }
    if (ch.length > 0) {
      alert('pb : '+ch);
      return false;
    }
  }
}
```



**Chargement de bibliothèques** pour implémenter les fonctionnalités manquantes

```
Modernizr.load({  
  test: Modernizr.input.required,  
  nope: 'required.js'});
```

Pour que cette méthode soit disponible il faut générer la bibliothèque après avoir coché Modernizr.load

## Extra

- html5shiv v3.4
- html5shiv v3.4 w/  
printshiv
- Modernizr.load  
([yepnope.js](#))

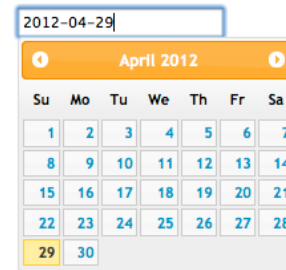
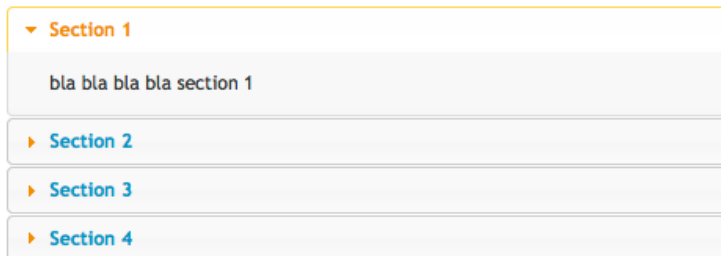
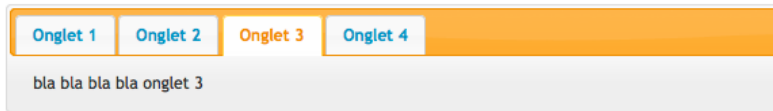


- Inspection du document et du style
- Aide à la création CSS
- Validation et optimisation CSS et HTML
- Firebug
- Modernizr
- **JQuery**
- Bibliothèques graphiques JavaScript

Framework JavaScript qui simplifie

- traversée et manipulation de l'arbre du document
- gestion des événements
- interactions AJAX

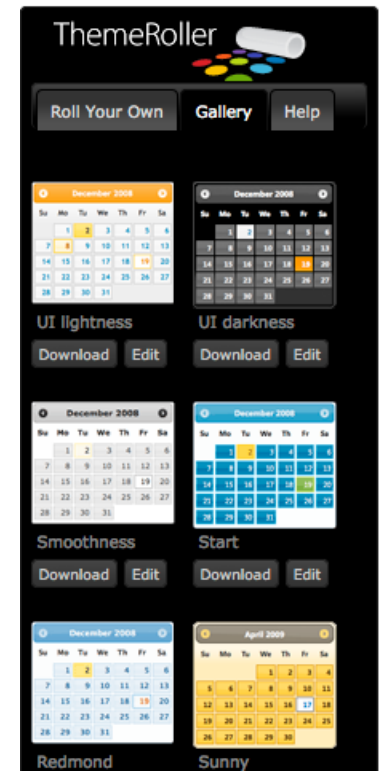
jQueryUI (animations, drag&drop, calendriers, onglets,...)



Plugins (validation de formulaires, tri de tableau, ...)

prix	fruit
2	bananes
3.5	oranges
11	mangue
25	cerises

<http://jquery.org>



## 1. Inclure la **bibliothèque**

```
<html>
```

```
<head>
```

```
<title>test jquery</title>
```

```
1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

1. Inclure la **bibliothèque**
2. Attendre la **fin** du téléchargement **DOM**

Notation : **jQuery**(...) ou **\$**(...)

```
<html>
```

```
<head>
```

```
<title>test jquery</title>
```

```
1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

```
<script type="text/javascript">
```

```
2 $(document).ready(function() {
```

```
    // code exécuté quand le document est chargé
```

```
});
```

```
</script>
```

```
</head>
```

```
...
```

1. Inclure la **bibliothèque**
2. Attendre la **fin** du téléchargement **DOM**
3. Agir sur le document

Notation : **jQuery**(...) ou **\$**(...)

```
var titre = jQuery("<h1>un titre de niveau 1</h1>");  
titre.appendTo('body');
```

```
var titre = $("<h1>un titre de niveau 1</h1>");  
titre.appendTo('body');
```

```
 $("<h1>un titre de niveau 1</h1>").appendTo('body');
```

```
<html>
```

```
<head>
```

```
<title>test jquery</title>
```

```
1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

```
<script type="text/javascript">
```

```
2 $(document).ready(function() {
```

```
    // code exécuté quand le document est chargé
```

```
3 $("<h1>un titre</h1>").appendTo('body');
```

```
});
```

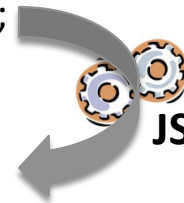
```
</script>
```

```
</head>
```

```
...
```

↑  
crée un nœud h1

↑  
ajoute le nœud dans l'arbre  
(dernier fils de body)



## Sélectionner un élément ou une collection d'éléments (sélecteurs CSS, Xpath, spécifiques)

Sélecteur	sélectionner	Formulaire	sélectionner
*	universel	:button	boutons de formulaires
x	éléments x	:checkbox	cases à cocher
x y	éléments y descendants de x	:checked	cases à cocher + radio cochés
x > y	éléments y fils directs de x	:disabled	éléments de form. désactivés
x + y	éléments y frères directs de x	:enabled	éléments de form. actifs
x ~ y	éléments y précédés par x	:radio	éléments boutons radio
x, y	éléments x et y	:selected	éléments option sélectionnés
.classe	éléments avec class="classe"	:submit	boutons de soumission
#ident	éléments avec id="ident"	:text	éléments input type text
:contains(str)	éléments contenant le texte <i>str</i>	:input	él. input, select, textarea, button

```

$( 'div a' ) // collection des liens fils de div
$( 'div a' )[ 0 ] // 1er élément de la collection
$( 'div a' ).get( 0 ) // idem
    
```

```

// collection des cases à cocher cochées et actives
$( ':checkbox:checked:enabled' )
$( ':radio' ).length // nombre d'objets dans collection
    
```

## Sélectionner un élément ou une collection d'éléments (sélecteurs CSS, Xpath, spécifiques)

Attribut	sélectionner
x[ <i>attr</i> ]	éléments x qui ont attribut <i>attr</i>
x[ <i>attr=ch</i> ]	éléments x dont attribut <i>attr</i> a exactement la valeur <i>ch</i>
x[ <i>attr^=prefixe</i> ]	éléments x dont la valeur de l'attribut <i>attr</i> commence par le préfixe
x[ <i>attr\$=suffixe</i> ]	éléments x dont la valeur de l'attribut <i>attr</i> se termine par le suffixe
x[ <i>attr*=chaîne</i> ]	éléments x dont l'attribut <i>attr</i> contient la sous-chaîne
x[ <i>attr!=valeur</i> ]	éléments x dont la valeur de l'attribut <i>attr</i> est différente de <i>valeur</i> , ou qui n'ont pas cet attribut

Position	sélectionner
x:first	1 <sup>er</sup> élément x du document
x:last	dernier élément x du document
x:even x:odd	éléments x pair/impairs
x:nth-child(n)	nième fils x de l'élément père
x:nth-child(even) x:nth-child(odd)	fils x pairs/impairs
x:first-child	1 <sup>er</sup> fils x
x:last-child	dernier fils x
x:only-child	éléments x sans frères
:gt(n) :lt(n)	éléments sélectionnés dont la position est < n (lt) ou > n (gt)
:eq(n)	élément dont l'index est n

## Modifier l'**arbre du document**

### - **Insérer** des éléments

- 1<sup>er</sup> ou dernier fils d'un élément

```
$("#<p>test</p>").appendTo('body');
```

méthodes **appendTo** et **prependTo**

- Avant ou après un élément

méthodes **insertBefore** et **insertAfter**

### - **Supprimer** une collection de nœuds

```
$('#a').remove();
```

méthode **remove**

### - **Remplacer** le contenu d'un élément

```
$('#lien1').html('un lien');
```

méthode **html**

### - **Attribut**

```
$('#lien1').attr('title','un lien')
```

méthode **attr**



## Modifier le **style**

- **Ajouter** une classe de style

méthode **addClass**

```
$('#h1').addClass('titre');
```

- **Supprimer** une classe de style

méthode **removeClass**

```
$('#h1').removeClass('titre');
```

- **Associer un style** CSS à une collection

méthode **css**

```
$('#div a').css('background', 'gold');  
$('#div a').css ({color:'blue',fontWeight:'bold'});
```

- **Cacher/montrez** des éléments

méthodes **show** et **hide**

```
$('#div:visible').hide();
```

## Événements

Méthodes blur, change, click, dblclick, error, focus, keydown, keypress, keyup, load, mousedown, mouseenter, mouseleave, mousemove, mouseout, mouseover, mouseup, ready, resize, scroll, select, submit, unload

**this** désigne l'élément concerné par l'événement

```
$('h1').mouseover(function() { $(this).css('background', 'silver'); });  
$('h1').mouseout(function() { $(this).css('background', 'gold'); });
```

```
// raccourci pour mouseover, mouseout  
$('h1').hover(  
    function() { $(this).css('background-color', 'silver'); },  
    function() { $(this).css('background-color', 'gold');  
});
```

Widget **DatePicker** <http://jqueryui.com>

1. Inclure les **bibliothèques**

```
<html>
```

```
<head>
```

```
  <title>test jquery</title>
```

```
  1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

```
  <script type="text/javascript" src="jquery/js/jquery-ui.js"></script>
```

```
</head>
```

```
<body>
```

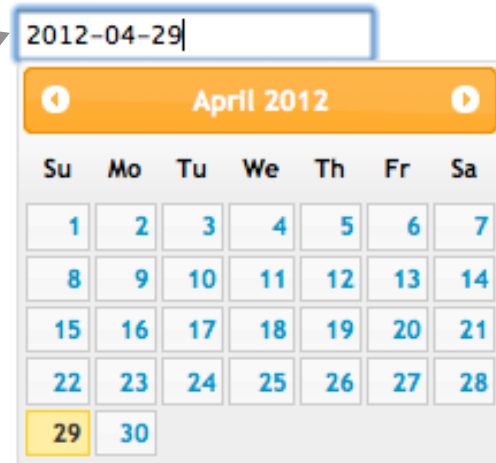
```
<form action="traite_form.php">
```

```
  <input type="text" name="date">
```

```
</form>
```

```
</body>
```

```
</html>
```



Widget **DatePicker** <http://jqueryui.com>

```
<html>
```

```
<head>
```

```
  <title>test jquery</title>
```

```
  1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

```
  <script type="text/javascript" src="jquery/js/jquery-ui.js"></script>
```

```
  2 <link type="text/css" href="jquery/css/ui-lightness/jquery-ui-1.8.19.custom.css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<form action="traite_form.php">
```

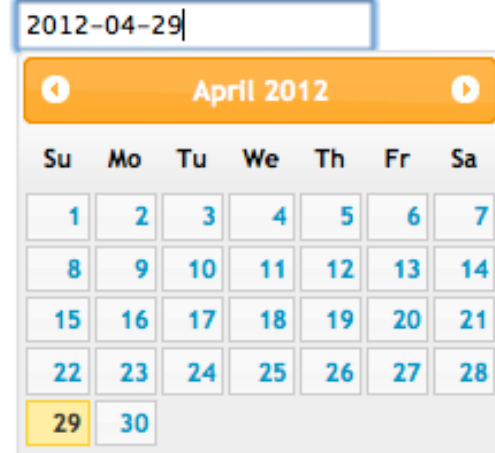
```
  <input type="text" name="date">
```

```
</form>
```

```
</body>
```

```
</html>
```

1. Inclure les bibliothèques
2. Inclure le **style CSS**  
(plusieurs thèmes disponibles)



Widget **DatePicker** <http://jqueryui.com>

```
<html>
```

```
<head>
```

```
  <title>test jquery</title>
```

```
  1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

```
  <script type="text/javascript" src="jquery/js/jquery-ui.js"></script>
```

```
  2 <link type="text/css" href="jquery/css/ui-lightness/jquery-ui-1.8.19.custom.css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<form action="traite_form.php">
```

```
  <input type="text" name="date" id="date1">
```

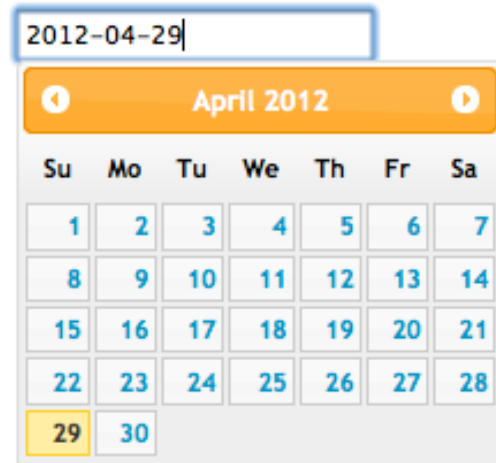
```
</form>
```

```
</body>
```

```
</html>
```

1. Inclure les bibliothèques
2. Inclure le style CSS  
(plusieurs thèmes disponibles)
3. Définir un **attribut id** pour le champ cible

3



Widget **DatePicker** <http://jqueryui.com>

```
<html>
```

```
<head>
```

```
<title>test jquery</title>
```

```
1 <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

```
<script type="text/javascript" src="jquery/js/jquery-ui.js"></script>
```

```
2 <link type="text/css" href="jquery/css/ui-lightness/jquery-ui-1.8.19.custom.css" rel="stylesheet">
```

```
<script type="text/javascript">
```

```
$(document).ready(function() {
```

```
4 $("#date1").datepicker({ dateFormat: "yy-mm-dd" }); });
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<form action="traite_form.php">
```

```
<input type="text" name="date" id="date1">
```

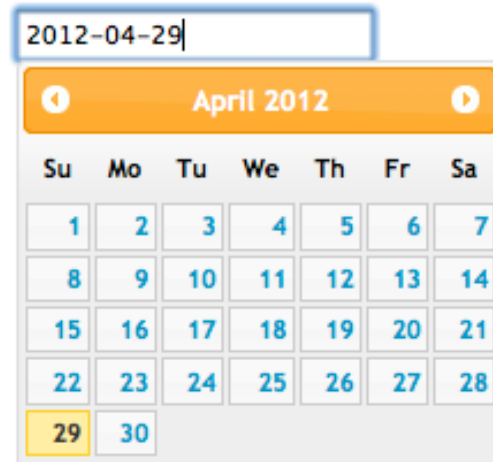
```
</form>
```

```
</body>
```

```
</html>
```

1. Inclure les bibliothèques
2. Inclure le style CSS  
(plusieurs thèmes disponibles)
3. Définir un attribut id pour le champ cible
4. Associer un **sélecteur de date**

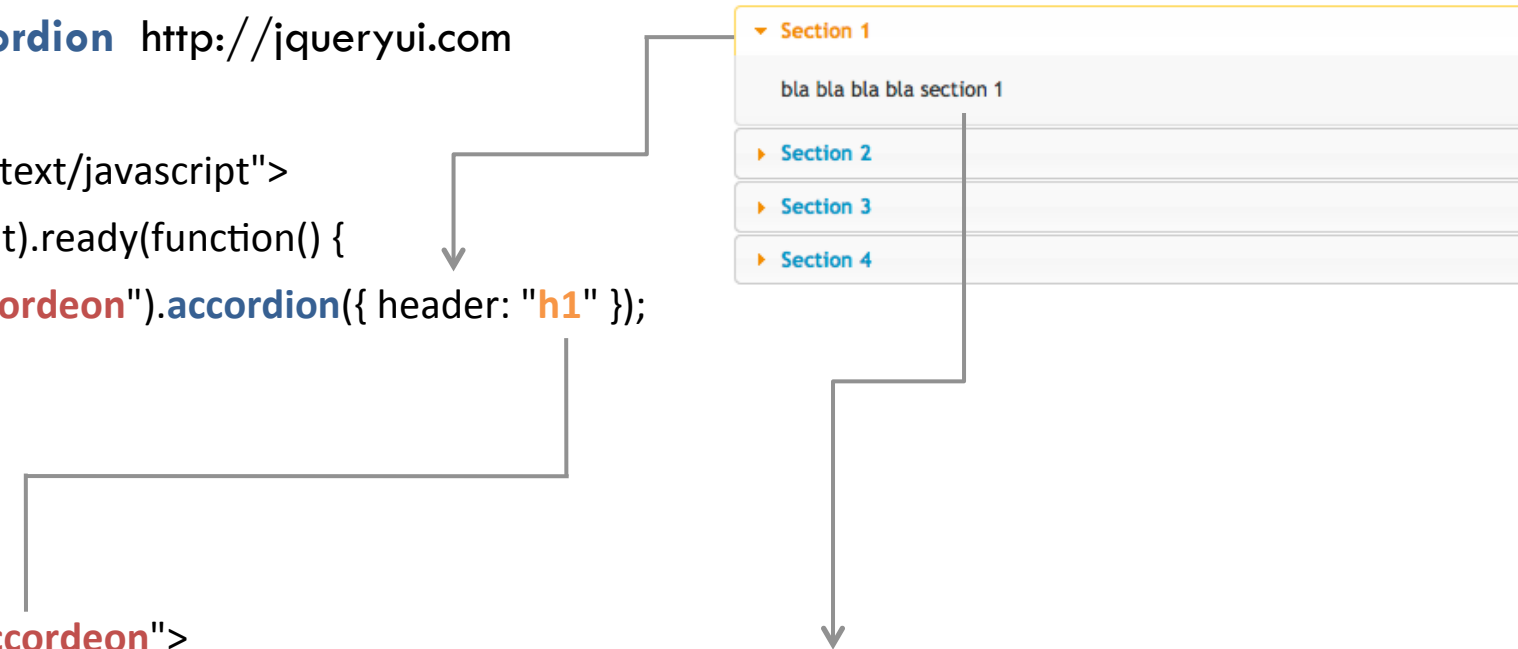
3



Widget **Accordion** <http://jqueryui.com>

...

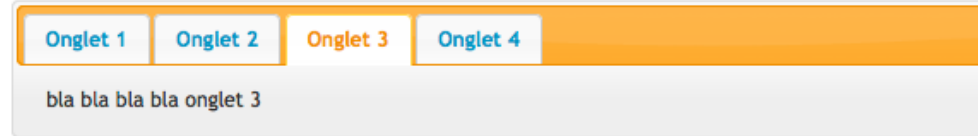
```
<script type="text/javascript">
  $(document).ready(function() {
    $("#accordeon").accordion({ header: "h1" });
  })
</script>
</head>
<body>
  <div id="accordeon">
    <div> <h1><a href="#">Section 1</a></h1> <p>bla bla bla bla section 1</p></div>
    <div> <h1><a href="#">Section 2</a></h1> <p>bla bla bla bla section 2</p> </div>
    <div> <h1><a href="#">Section 3</a></h1> <p>bla bla bla bla section 3</p></div>
    <div> <h1><a href="#">Section 4</a></h1> <p>bla bla bla bla section 4</p></div>
  </div>
</body>
</html>
```



The diagram illustrates the mapping between the code and the rendered UI. It shows a vertical list of four sections: Section 1 (expanded), Section 2, Section 3, and Section 4. Arrows indicate the following connections:

- An arrow points from the `$("#accordeon").accordion()` call in the code to the top of the accordion widget.
- An arrow points from the `header: "h1"` option to the `<h1>` tags in the HTML code.
- Arrows point from the text content (e.g., "bla bla bla bla section 1") in the code to the corresponding text in the rendered sections.

Widget **Tab** <http://jqueryui.com>



```
...  
<script type="text/javascript">  
    $(document).ready(function() { $("#onglets").tabs(); })  
</script>  
</head>  
<body>  
    <div id="onglets">  
        <ul>  
            <li><a href="#onglet1">Onglet 1</a></li>  
            <li><a href="#onglet2">Onglet 2</a></li>  
            <li><a href="#onglet3">Onglet 3</a></li>  
            <li><a href="#onglet4">Onglet 4</a></li>  
        </ul>  
        <div id="onglet1">bla bla bla bla onglet 1</div>  
        <div id="onglet2">bla bla bla bla onglet 2</div>  
        <div id="onglet3">bla bla bla bla onglet 3</div>  
        <div id="onglet4">bla bla bla bla onglet 4</div>  
    </div>  
</body>  
</html>
```



## Plugin **TableSorter**

```
<html>
<head>
  <title>test tri tableau</title>
  <script src="jquery/js/jquery.js"></script>
  <script src="jquery/js/jquery.tablesorter.js"></script>
```

1

```
</head>
<body>
  <table>
    <thead>
      <tr> <th>prix</th> <th>fruit</th> </tr>
    </thead>
    <tbody>
      <tr><td>2</td><td>bananes</td></tr>
      <tr><td>25</td><td>cerises</td></tr>
      <tr><td>3.5</td><td>oranges</td></tr>
      <tr><td>11</td><td>mangue</td></tr>
    </tbody>
  </table>
```

### 1. Inclure les **bibliothèques**

th 1	th 2
2	bananes
25	cerises
11	mangue
3.5	oranges

prix	fruit
2	bananes
3.5	oranges
11	mangue
25	cerises

## Plugin **TableSorter**

```
<html>  
<head>  
  <title>test tri tableau</title>  
  <script src="jquery/js/jquery.js"></script>  
  <script src="jquery/js/jquery.tablesorter.js"></script>
```

1

2

```
  <link rel="stylesheet" type="text/css" href="jquery/themes/blue/style.css">  
</head>  
<body>  
  <table>  
    <thead>  
      <tr>  <th>prix</th>  <th>fruit</th> </tr>  
    </thead>  
    <tbody>  
      <tr><td>2</td><td>bananes</td></tr>  
      <tr><td>25</td><td>cerises</td></tr>  
      <tr><td>3.5</td><td>oranges</td></tr>  
      <tr><td>11</td><td>mangue</td></tr>  
    </tbody>  
  </table>
```

1. Inclure les bibliothèques
2. Inclure **le style CSS** (plusieurs thèmes)

th 1	th 2
2	bananes
25	cerises
11	mangue
3.5	oranges

prix	fruit
2	bananes
3.5	oranges
11	mangue
25	cerises

## Plugin **TableSorter**

```
<html>
<head>
  <title>test tri tableau</title>
  <script src="jquery/js/jquery.js"></script>
  <script src="jquery/js/jquery.tablesorter.js"></script>
```

1

2

```
<link rel="stylesheet" type="text/css" href="jquery/themes/blue/style.css">
</head>
<body>
```

3

```
<table id='tableau'>
  <thead>
    <tr> <th>prix</th> <th>fruit</th> </tr>
  </thead>
  <tbody>
    <tr><td>2</td><td>bananes</td></tr>
    <tr><td>25</td><td>cerises</td></tr>
    <tr><td>3.5</td><td>oranges</td></tr>
    <tr><td>11</td><td>mangue</td></tr>
  </tbody>
</table>
```

1. Inclure les bibliothèques
2. Inclure le style CSS (plusieurs thèmes)
3. Ajouter un **attribut id** au tableau

th 1	th 2
2	bananes
25	cerises
11	mangue
3.5	oranges

prix	fruit
2	bananes
3.5	oranges
11	mangue
25	cerises

## Plugin **TableSorter**

```
<html>
<head>
  <title>test tri tableau</title>
  <script src="jquery/js/jquery.js"></script>
  <script src="jquery/js/jquery.tablesorter.js"></script>
```

1

2

```
<link rel="stylesheet" type="text/css" href="jquery/themes/blue/style.css">
</head>
<body>
```

3

```
<table id="tableau" class="tablesorter">
  <thead>
    <tr> <th class="header">prix</th> <th class="header">fruit</th> </tr>
```

4

```
</thead>
<tbody>
  <tr><td>2</td><td>bananes</td></tr>
  <tr><td>25</td><td>cerises</td></tr>
  <tr><td>3.5</td><td>oranges</td></tr>
  <tr><td>11</td><td>mangue</td></tr>
</tbody>
</table>
```

1. Inclure les bibliothèques
2. Inclure le style CSS (plusieurs thèmes)
3. Ajouter un attribut id au tableau
4. Mettre des **classes de style**

th 1	th 2
2	bananes
25	cerises
11	mangue
3.5	oranges

prix	fruit
2	bananes
3.5	oranges
11	mangue
25	cerises

## Plugin **TableSorter**

```
<html>
```

```
<head>
```

```
  <title>test tri tableau</title>
```

```
  <script src="jquery/js/jquery.js"></script>
```

```
  <script src="jquery/js/jquery.tablesorter.js"></script>
```

```
  <script>$(document).ready(function() { $("#tableau").tablesorter(); }); </script>
```

```
  <link rel="stylesheet" type="text/css" href="jquery/themes/blue/style.css">
```

```
</head>
```

```
<body>
```

```
  <table id="tableau" class="tablesorter">
```

```
    <thead>
```

```
      <tr> <th class="header">prix</th> <th class="header">fruit</th> </tr>
```

```
    </thead>
```

```
    <tbody>
```

```
      <tr><td>2</td><td>bananes</td></tr>
```

```
      <tr><td>25</td><td>cerises</td></tr>
```

```
      <tr><td>3.5</td><td>oranges</td></tr>
```

```
      <tr><td>11</td><td>mangue</td></tr>
```

```
    </tbody>
```

```
</table>
```

1. Inclure les bibliothèques
2. Inclure le style CSS (plusieurs thèmes)
3. Ajouter un attribut id au tableau
4. Mettre des classes de style
5. Associer la fonction de tri au tableau

1

2

3

4

5

th 1	th 2
2	bananes
25	cerises
11	mangue
3.5	oranges

prix	fruit
2	bananes
3.5	oranges
11	mangue
25	cerises

## Vérification de formulaire

<http://docs.jquery.com/Plugins/Validation>

```
<html>  
<head>  
  <title>test jquery</title>
```

1. Inclure les **bibliothèques**

1

```
<script type="text/javascript" src="jquery/js/jquery.js"></script>  
<script type="text/javascript" src="jquery/js/jquery.validate.js"></script>
```

<input type="text"/>	entrer un nom
<input type="text" value="schtroumpf"/>	entrer une adresse mail
<input type="text" value="xxx"/>	entrer une URL

```
<body>  
<form>  
  <input type='text' name='t1'><br>  
  <input type='text' name='t2'><br>  
  <input type='text' name='t3'><br>  
  <select name='sel1'>  
    <option></option>  
    <option value='0'>item 0</option>  
    <option value='1'>item 1</option>  
  </select><br>  
  <input type="submit">  
</form>  
</body>  
</html>
```

## Vérification de formulaire

<http://docs.jquery.com/Plugins/Validation>

```
<html>
<head>
  <title>test jquery</title>
  <style type="text/css">
    .error {color:red }
  </style>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript" src="jquery/js/jquery.validate.js"></script>
```

1. Inclure les bibliothèques
2. Définir le **style** pour les erreurs

<input type="text"/>	entrer un nom
<input type="text" value="schtroumpf"/>	entrer une adresse mail
<input type="text" value="xxx"/>	entrer une URL

```
<body>
<form>
  <input type='text' name='t1'><br>
  <input type='text' name='t2'><br>
  <input type='text' name='t3'><br>
  <select name='sel1'>
    <option></option>
    <option value='0'>item 0</option>
    <option value='1'>item 1</option>
  </select><br>
  <input type="submit">
</form>
</body>
</html>
```

## Vérification de formulaire

<http://docs.jquery.com/Plugins/Validation>

```
<html>
<head>
  <title>test jquery</title>
  <style type="text/css">
    .error {color:red }
  </style>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript" src="jquery/js/jquery.validate.js"></script>
```

1. Inclure les bibliothèques
2. Définir le style pour les erreurs
3. Ajouter un **attribut id** au formulaire

<input type="text"/>	entrer un nom
<input type="text" value="schtroumpf"/>	entrer une adresse mail
<input type="text" value="xxx"/>	entrer une URL

```
<body>
  <form id="formtest">
    <input type='text' name='t1'><br>
    <input type='text' name='t2'><br>
    <input type='text' name='t3'><br>
    <select name='sel1'>
      <option></option>
      <option value='0'>item 0</option>
      <option value='1'>item 1</option>
    </select><br>
    <input type="submit">
  </form>
</body>
</html>
```



## Vérification de formulaire

<http://docs.jquery.com/Plugins/Validation>

```
<html>
<head>
  <title>test jquery</title>
  <style type="text/css">
    .error {color:red }
  </style>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript" src="jquery/js/jquery.validate.js"></script>
  <script type="text/javascript">
    $(document).ready(function() {
      $('#formtest').validate(
        {
          rules: {
            nom: {
              required: true,
              minlength: 3
            },
            adresse: {
              required: true,
              email: true
            },
            url: {
              required: true,
              url: true
            }
          },
          messages: {
            nom: "entrez un nom",
            adresse: "entrez une adresse mail",
            url: "entrez une URL"
          }
        }
      );
    });
  </script>
</head>
```

2

1

4

3

1. Inclure les bibliothèques
2. Définir le style pour les erreurs
3. Ajouter un attribut id au formulaire
4. Associer la **vérification** au formulaire

```
<body>
  <form id="formtest">
    <input type='text' name='t1'><br>
    <input type='text' name='t2'><br>
    <input type='text' name='t3'><br>
    <select name='sel1'>
      <option></option>
      <option value='0'>item 0</option>
      <option value='1'>item 1</option>
    </select><br>
    <input type="submit">
  </form>
</body>
</html>
```

## Vérification de formulaire

```
<html>
<head>
  <title>test jquery</title>
  <style type="text/css">
    .error {color:red }
  </style>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript" src="jquery/js/jquery.validate.js"></script>
  <script type="text/javascript">
    $(document).ready(function() {
      $('#formtest').validate({
        rules: {
          t1: { required:true },
          t2: { email:true },
          t3: { url:true }
        },
        messages: {
          t1: { required : "entrer un nom" },
          t2: { email:"entrer une adresse mail" },
          t3: { url: "entrer une URL" }
        }
      });
    });
  </script>
</head>
```

1

2

4

5

<input type="text"/>	entrer un nom
<input type="text" value="schtroumpf"/>	entrer une adresse mail
<input type="text" value="xxx"/>	entrer une URL

<http://docs.jquery.com/Plugins/Validation>

1. Inclure les bibliothèques
2. Définir le style pour les erreurs
3. Ajouter un attribut id au formulaire
4. Associer la vérification au formulaire
5. Définir les règles et messages

```
<body>
  <form id="formtest">
    <input type='text' name='t1'><br>
    <input type='text' name='t2'><br>
    <input type='text' name='t3'><br>
    <select name='sel1'>
      <option></option>
      <option value='0'>item 0</option>
      <option value='1'>item 1</option>
    </select><br>
    <input type="submit">
  </form>
</body>
</html>
```

3

AJAX



1. Inclure la **bibliothèque**

```
<html>
<head>
  <title>test jquery</title>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

1

```
<body>
<form id="formtest">
  pays
  <select name='pays'>
    <option></option>
    <option value='Angleterre'>Angleterre</option>
    <option value='France'>France</option>
    <option value='Italie'>Italie</option>
  </select>
  <span></span>
</form>
</body>
</html>
```

```
</head>
```

## AJAX



1. Inclure la bibliothèque
2. Ajouter un **attribut id** à la cible

```
<html>
<head>
  <title>test jquery</title>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

1

```
<body>
<form id="formtest">
  pays
  <select name='pays'>
    <option></option>
    <option value='Angleterre'>Angleterre</option>
    <option value='France'>France</option>
    <option value='Italie'>Italie</option>
  </select>
  <span id="ville"></span>
</form>
</body>
</html>
```

2

```
</head>
```

## AJAX



1. Inclure la bibliothèque
2. Ajouter un attribut id à la cible
3. Ajouter un **attribut id** à la source

```
<html>
<head>
  <title>test jquery</title>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
```

1

```
<body>
<form id="formtest">
  pays
  <select name='pays' id="pays">
    <option></option>
    <option value='Angleterre'>Angleterre</option>
    <option value='France'>France</option>
    <option value='Italie'>Italie</option>
  </select>
  <span id="ville"></span>
</form>
</body>
</html>
```

2

3

```
</head>
```

## AJAX



1. Inclure la bibliothèque
2. Ajouter un attribut id à la cible
3. Ajouter un attribut id à la source
4. Définir l'action sur l'événement déclencheur

```
<html>
<head>
  <title>test jquery</title>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript">
    $(document).ready(function() {
      $('#pays').change(function() {
        });
      });
    </script>
  </head>
```

```
<body>
<form id="formtest">
  pays
  <select name='pays' id="pays">
    <option></option>
    <option value='Angleterre'>Angleterre</option>
    <option value='France'>France</option>
    <option value='Italie'>Italie</option>
  </select>
  <span id="ville"></span>
</form>
</body>
</html>
```

## AJAX



1. Inclure la bibliothèque
2. Ajouter un attribut id à la cible
3. Ajouter un attribut id à la source
4. Définir l'action sur l'événement déclencheur
5. Donner les **paramètres** AJAX

```
<html>
<head>
  <title>test jquery</title>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript">
    $(document).ready(function() {
      $('#pays').change(function() {
        $.ajax({
          type: 'GET',
          data: { pays: $(':selected').text() },
          url: 'villes.php',
          dataType: 'html'
        });
      });
    });
  </script>
</head>
```

1

4

5

```
<body>
<form id="formtest">
  pays
  <select name='pays' id="pays">
    <option></option>
    <option value='Angleterre'>Angleterre</option>
    <option value='France'>France</option>
    <option value='Italie'>Italie</option>
  </select>
  <span id="ville"></span>
</form>
</body>
</html>
```

3

2

## AJAX



1. Inclure la bibliothèque
2. Ajouter un attribut id à la cible
3. Ajouter un attribut id à la source
4. Définir l'action sur l'événement déclencheur
5. Donner les **paramètres** AJAX
6. Définir le **comportement** en cas de succès

```
<html>
<head>
  <title>test jquery</title>
  <script type="text/javascript" src="jquery/js/jquery.js"></script>
  <script type="text/javascript">
    $(document).ready(function() {
      $('#pays').change(function() {
        $.ajax({
          type: 'GET',
          data: { pays: $(':selected').text() },
          url: 'villes.php',
          dataType: 'html',
          success: function(res) {
            $('#ville').html(res);
          }
        });
      });
    });
  </script>
</head>
```

1

4

5

6

```
<body>
<form id="formtest">
  pays
  <select name='pays' id="pays">
    <option></option>
    <option value='Angleterre'>Angleterre</option>
    <option value='France'>France</option>
    <option value='Italie'>Italie</option>
  </select>
  <span id="ville"></span>
</form>
</body>
</html>
```

3

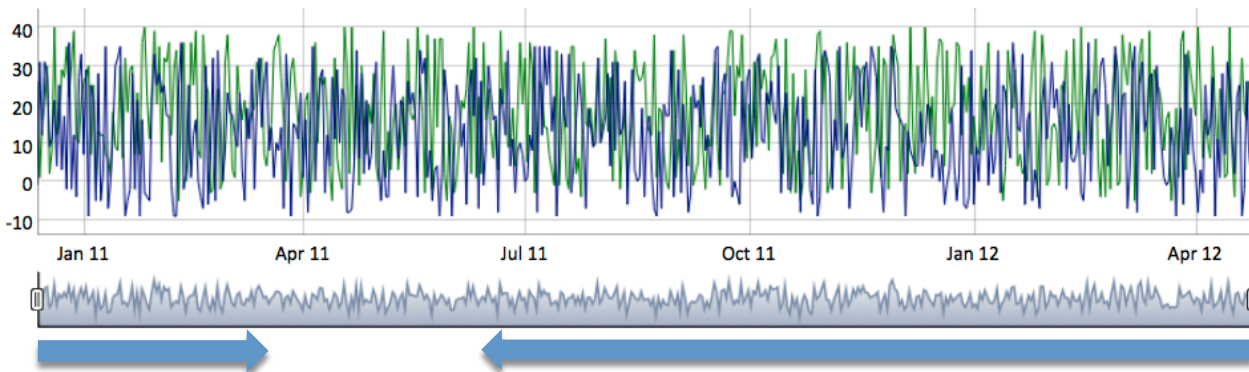
2



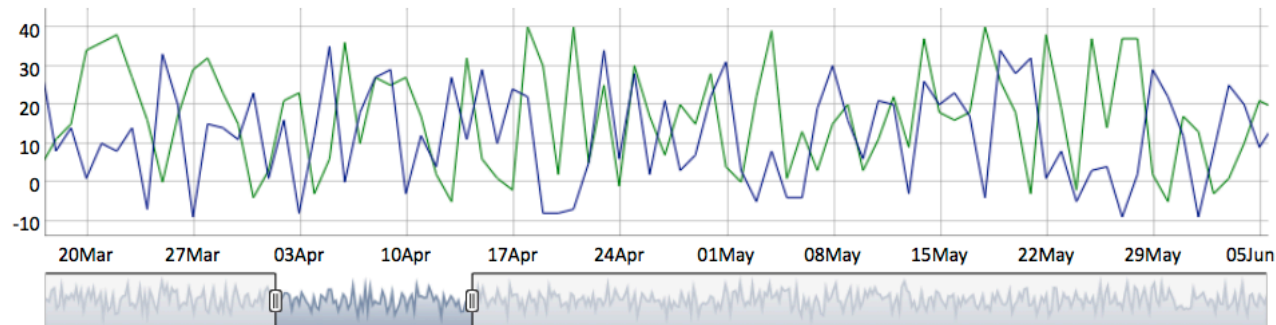
- Inspection du document et du style
- Aide à la création CSS
- Validation et optimisation CSS et HTML
- Firebug
- Modernizr
- JQuery
- **Bibliothèques graphiques JavaScript**

- Affichage du graphique délégué au navigateur
- Avantages
  - ▣ Interactivité
  - ▣ Décharge le serveur de la génération du graphique
- Inconvénients
  - ▣ JavaScript doit être activé (prévoir une solution alternative)
  - ▣ Support HTML5 canvas ou SVG
  - ▣ Tests à réaliser avec plusieurs versions de navigateurs

- ❑ Visualisation interactive de séries de données temporelles denses
- ❑ Open source
- ❑ Utilise HTML5 canvas (compatible IE < 9 avec ExplorerCanvas)
- ❑ Très simple d'utilisation : 3 instructions JavaScript, 1 fichier CSV
- ❑ Nombreuses options de configuration

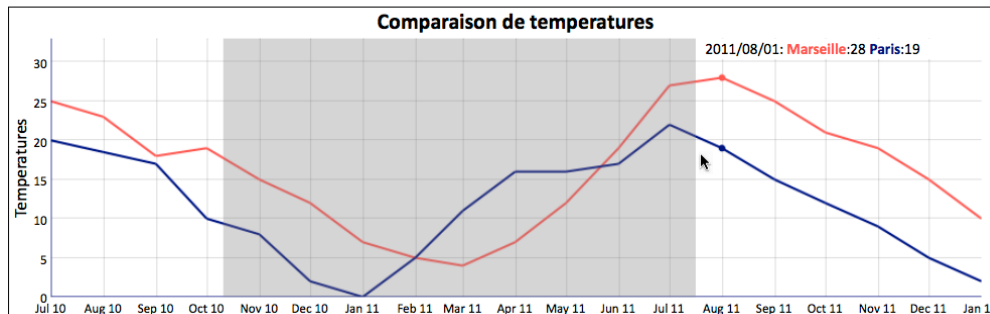


Exploration des courbes



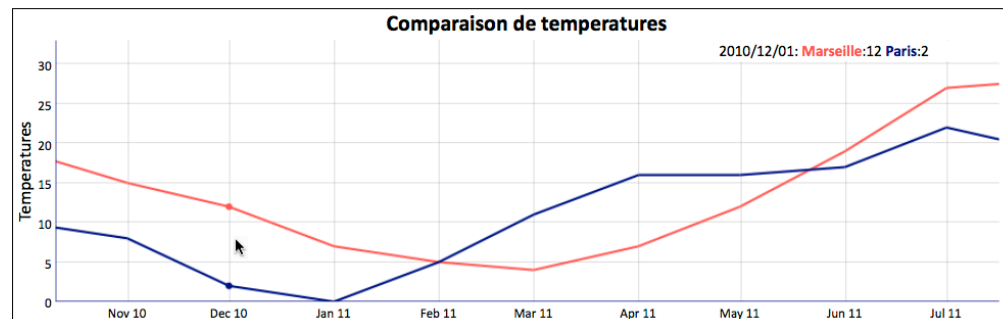
- ❑ Visualisation interactive de séries de données temporelles denses
- ❑ Open source
- ❑ Utilise HTML5 canvas (compatible IE < 9 avec ExplorerCanvas)
- ❑ Très simple d'utilisation : 3 instructions JavaScript, 1 fichier CSV
- ❑ Nombreuses options de configuration

Marseille vs Paris : 2010/2012



Exploration des courbes

Marseille vs Paris : 2010/2012



```
<!doctype html>
<html>
  <head>
    <title>meteo</title>
    <script type='text/javascript' src='dygraph-combined.js'></script>
  </head>
  <body>
    <div id='corps'>
      <h1 style='text-align:center'>Marseille vs Paris : 2010/2012</h1>
    </div>
    <div id='graphique' style='width:900px;height:220px'></div>
    <script type="text/javascript">
      var conteneur = document.getElementById('graphique');
      var options = {showRangeSelector:true} ;
      var graph = new Dygraph(conteneur, 'data.csv', options);
    </script>
    <noscript>
      <p>Activez JS pour visualiser les courbes ou consultez la <a href='courbe.php'>version non interactive</a></p>
    </noscript>
  </body>
</html>
```

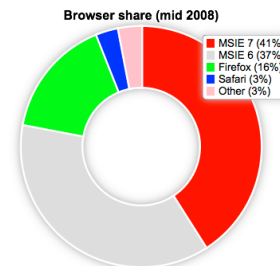
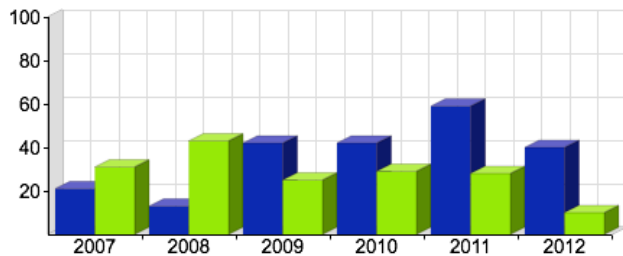
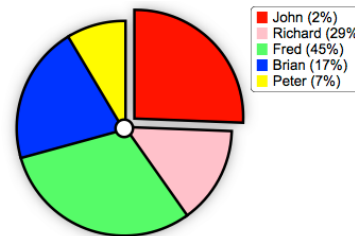
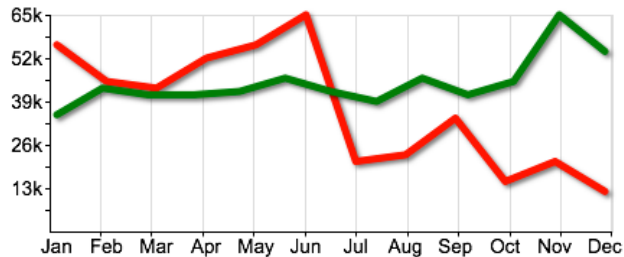


1. Inclure la bibliothèque
2. Créer le bloc conteneur
3. Créer le graphique
4. Donner une solution alternative

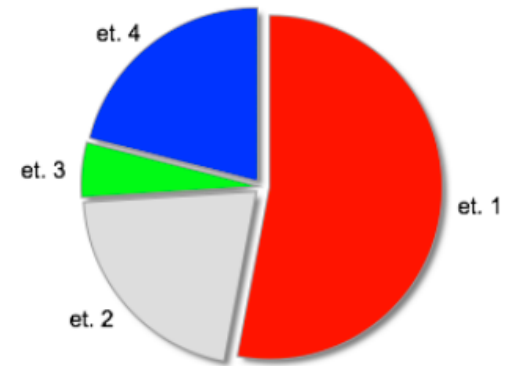


- Visualisation de graphiques (20 types supportés)
- Gratuit pour une utilisation non commerciale
- Utilise HTML5 canvas
- Très simple d'utilisation
- Nombreuses options de configuration

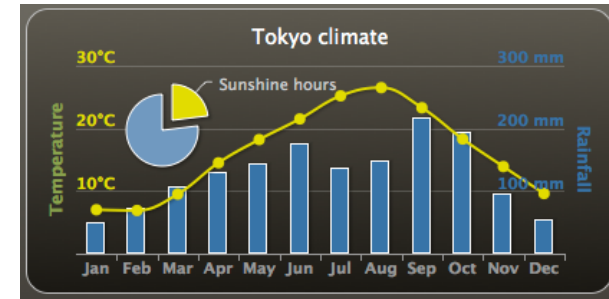
<http://www.rgraph.net/>



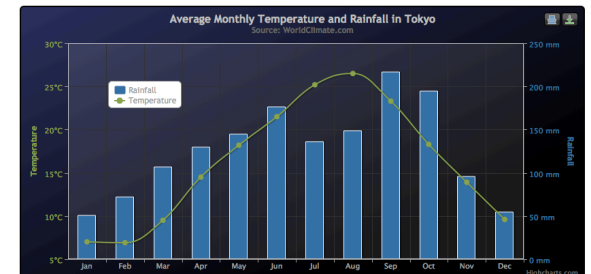
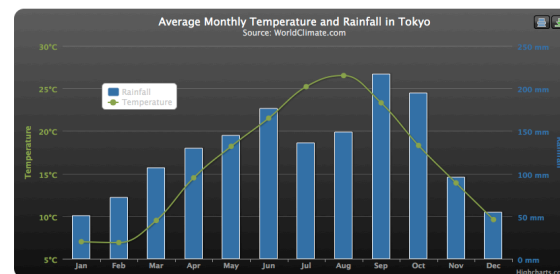
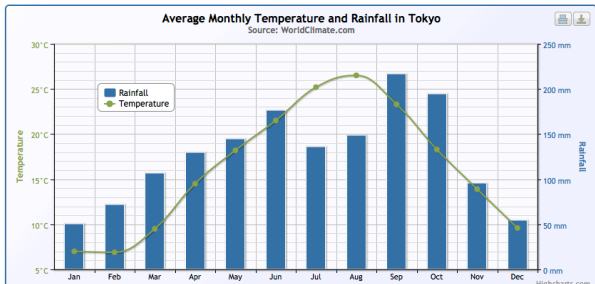
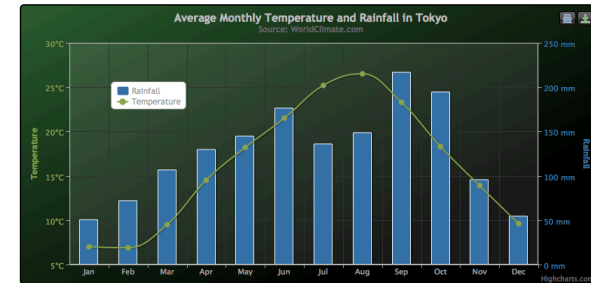
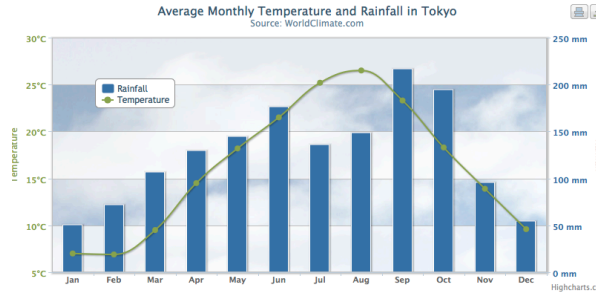
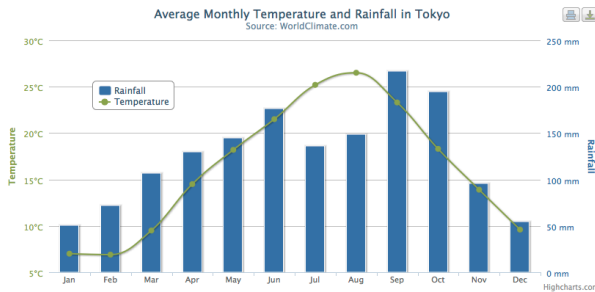
```
<html>
<head>
  <script type="text/javascript" src="RGraph/libraries/RGraph.common.core.js"></script>
  <script type="text/javascript" src="RGraph/libraries/RGraph.pie.js"></script>
  <script type="text/javascript">
    window.onload = function(){
      var donnees = [53,21,5,21];
      var camembert = new RGraph.Pie('graphique', donnees);
      camembert.Set('chart.labels', ['et. 1', 'et. 2', 'et. 3', 'et. 4']);
      camembert.Set('chart.linewidth', 2);
      camembert.Set('chart.stroke', 'white');
      camembert.Set('chart.exploded', 5);
      camembert.Set('chart.shadow', true);
      camembert.Draw();
    }
  </script>
</head>
<body>
  <canvas id="graphique" width="600" height="250">message alternatif</canvas>
</body>
</html>
```



- ❑ Visualisation interactive de graphiques
- ❑ Gratuit pour une utilisation non commerciale
- ❑ Utilise :
  - ❑ un framework pour la manipulation DOM (jQuery)
  - ❑ SVG ou VML
- ❑ Nombreuses options de configuration
- ❑ Très simple d'utilisation, plusieurs thèmes disponibles



<http://www.highcharts.com>

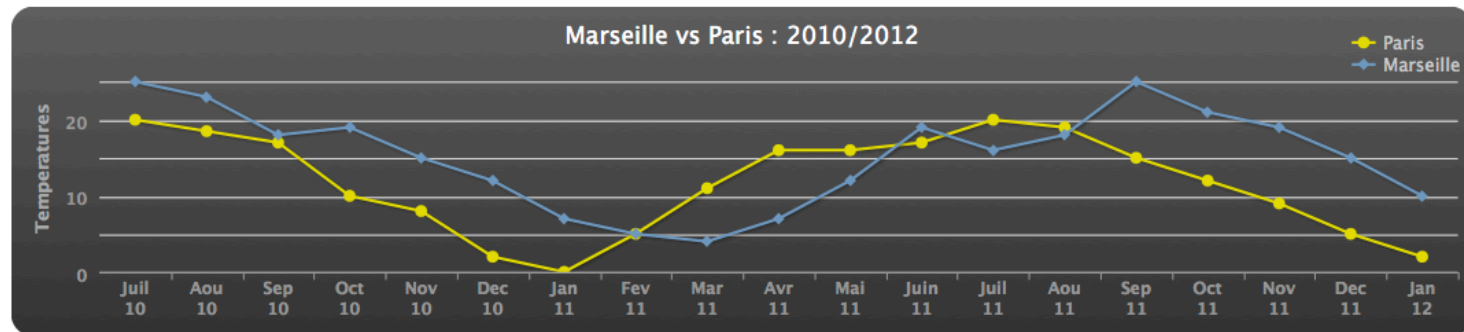




```
<html>
<head>
<script type="text/javascript" src="js/jquery.min.js"></script>
<script type="text/javascript" src="js/highcharts.js"></script>
<script type="text/javascript" src="js/themes/gray.js"></script>
<script type="text/javascript">
var chart1;
$(document).ready(function() {
  chart1 = new Highcharts.Chart({
    chart: {
      renderTo: 'graphique',
      type: 'line',
      height: 220,
    },
    credits: {enabled:false}, // supprimer credits
    title: {text: 'Marseille vs Paris : 2010/2012'},
    legend: {
      layout: 'vertical',
      align: 'right',
      verticalAlign: 'top',
      borderWidth: 0,
      floating:true
    },
    yAxis: {
      max: 27,
      min: 0,
      minorTickInterval: 5,
      endOnTick: false,
      maxPadding: 10,
    },
    title: {
      text: 'Temperatures'
    }
  },
  xAxis: {
```

```
categories: ['Juil 10', 'Aou 10', 'Sep 10', 'Oct 10', 'Nov 10', 'Dec 10',
            'Jan 11', 'Fev 11', 'Mar 11', 'Avr 11', 'Mai 11', 'Juin 11',
            'Juil 11', 'Aou 11', 'Sep 11', 'Oct 11', 'Nov 11', 'Dec 11', 'Jan 12']
},
series: [{
  name: 'Paris',
  data: [20, 18.5, 17, 10, 8, 2, 0, 5, 11, 16, 16, 17, 20, 19, 15, 12, 9, 5, 2]
}, {
  name: 'Marseille',
  data: [25, 23, 18, 19, 15, 12, 7, 5, 4, 7, 12, 19, 16, 18, 25, 21, 19, 15, 10]
}]
});
</script>
</head>

<body>
<div id="graphique"></div>
</body>
</html>
```



ANF dev web ASR

24-26 octobre 2012

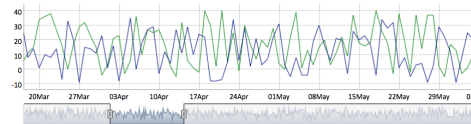
Carry-Le-Rouet (13)



**AJAX**



**CSS**



**bibliothèques  
graphiques**



Questions ?