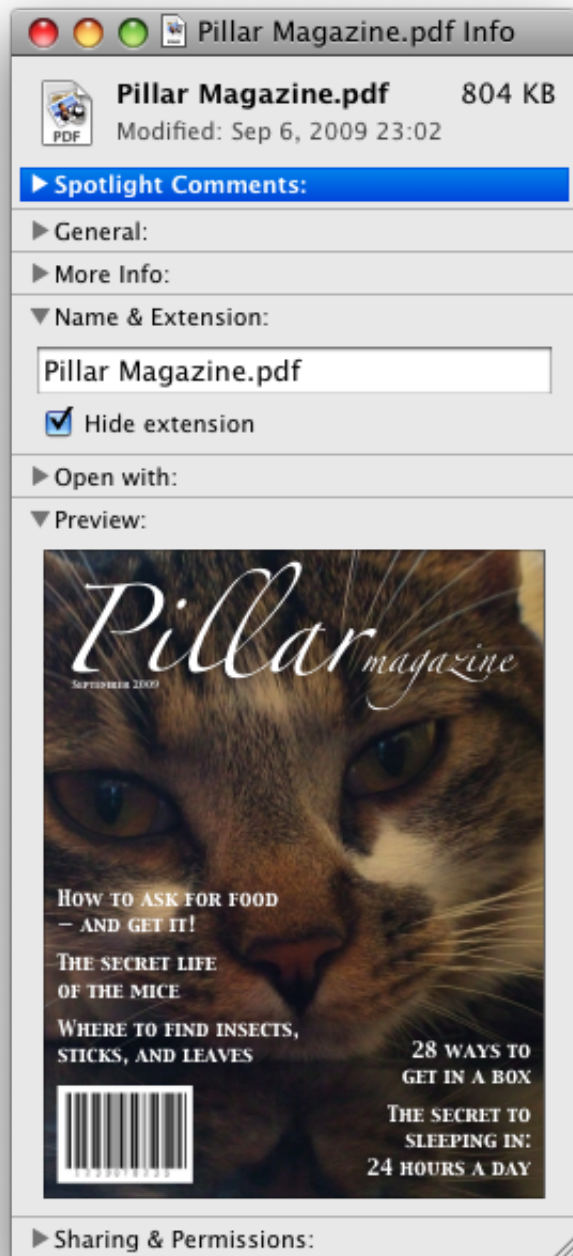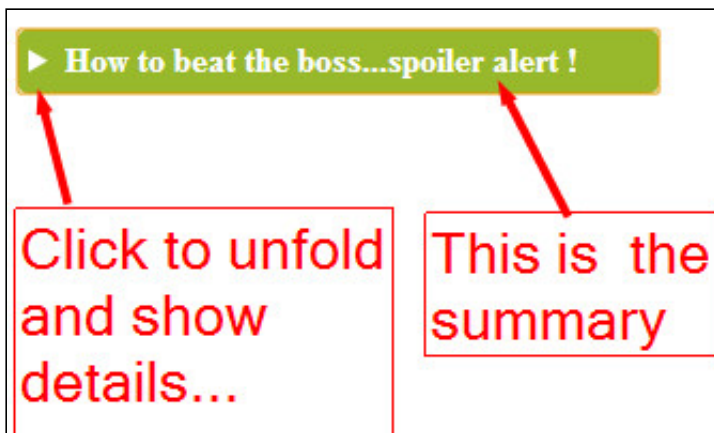# `<details>` and `<summary>` elements

INTRODUCTION

These elements have been introduced for displaying a foldable zone in an HTML document.

In the screenshot below, taken from the W3C specification page, the text next to the horizontal arrow is a `<summary>` element, and the text displayed when we click on the summary part, is the `<details>` element. This is a sort of "accordion" with foldable content.
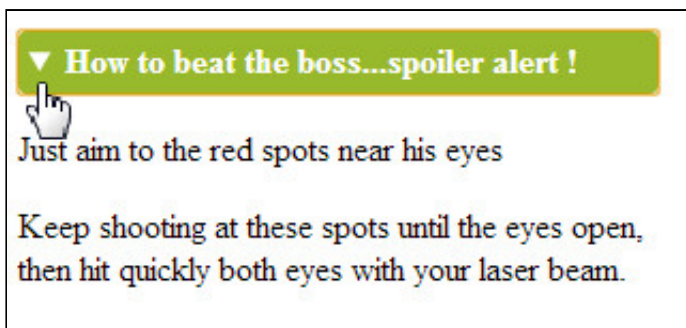
The `<details>` element generates a simple widget to show/hide element contents, optionally by clicking on its child `<summary>` element.

Here is an example of what can be done using these elements: http://jsbin.com/ifofib/3/edit

And here is what is displayed after clicking on the small arrow-shaped icon to the left of the summary:

Here is the code of this example:

```
<!DOCTYPE html>
<html>
<body>
<details>
  <summary>
    How to beat the boss...spoiler alert !
  </summary>
    <p> Just aim to the red spots near his eyes</p>
    <p>Keep shooting at these spots until the eyes open, then hit
    quickly both eyes with your laser beam.</p>
</details>
</body>
</html>
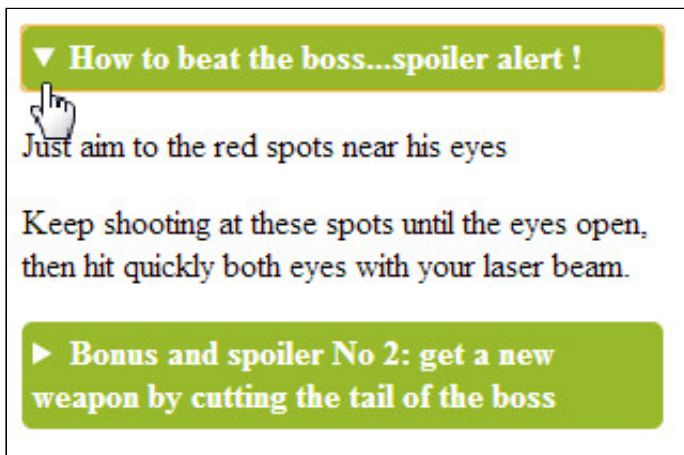```
13.

The `<summary>...</summary>` is inside a `<details>...</details>` element. By clicking on the icon at the left of the summary, the content of the `<details>` value is displayed/hidden.

`<details>` blocks can be embedded inside one another, like in this example: http://jsbin.com/ayojup/2/edit

Step 1: all folded:



Step 2: click on top level summary icon, the first "hidden" part appears...



Step3: click on embedded summary icon inside the part that has been previously unfolded:

Source code of this example, see the summary/details inside another one:

```html
<details>
  <summary>
    How to beat the boss...spoiler alert !
  </summary>
  <p> Just aim to the red spots near his eyes</p>
  <p>Keep shooting at these spots until the eyes open, then hit
  quickly both eyes with your laser beam.</p>
  <details>
    <summary>
      Bonus and spoiler No 2: get a new weapon by cutting
      the tail of the boss.
    </summary>
    <p>Before finishing him, try to cut his trail, you will get
      a new weapon</p>
    <p>Just try to stay behind him as long as you can, hitting
            his tail with your melee weapon,
      after a few hits the trail will fall and you will get a new
      bonus weapon, then finish the boss.</p>
```

```
19.    </details>
       </details>
```

CSS PSEUDO CLASSES FOR STYLING SUMMARY ICONS

There are CSS pseudo classes to style this icon when it is in the open or closed state. Support for these is still unofficial (works on Google Chrome).

Examples adapted from: http://www.alsacreations.com/article/lire/1335-html5-details-summary.html (tirial available in French language).

Example1: http://jsbin.com/ifofib/46/edit

The color and background of the icon on the left are specified by the following CSS rule, which uses the pseudo class `::-webkit-details-marker`

In this example: red arrow, white background.

```
summary::-webkit-details-marker {
   color:#FF0000;
   background:#FFFFFF;
}
```


Once opened, the selector `details[open]` can style the icon when `<details>` is

unfolded. In this example: blue arrow, turquoise background. Here is the corresponding CSS rule:

```css
details[open] summary::-webkit-details-marker {
   color:#0000FF;
   background:#00FFFF;
}
```

It is also possible to change the icon itself using the CSS pseudo class `:after`

Example 2: http://jsbin.com/ifofib/8/edit

+ **How to beat the boss...spoiler alert !**

– **How to beat the boss...spoiler alert !**

Just aim to the red spots near his eyes

Keep shooting at these spots until the eyes open, then hit quickly both eyes with your laser beam.

CSS rules used in this example:

Use a "+" shaped icon, pink, bold, etc... :

```css
summary:after {
   content: "+";
   color: #FF00FF;
   float: left;
   font-size: 1.5em;
   font-weight: bold;
   margin: -5px 5px 0 0;
   padding: 0;
```

```
              text-align: center;
10.           width: 20px;
          }
```

Use a "-" shaped icon, white, when details are displayed:

```
      details[open] summary:after {
          content: "-";
          color: #FFFFFF
      }
```

CURRENT SUPPORT

Support as of February 2015:

IE	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	Chrome for Android
		31						
		35						
		36						4.1
8		37					4.1	
9		38					4.3	
10	34	39	7.1	26	7.1		4.4	
11	35	40	8	27	8.1	8	4.4.4	40
TP	36	41		28			37	
	37	42		29				
	38	43						

You will find an up-to-date version of this table at: http://caniuse.com/#feat=details

As you notice, Internet Explorer and Firefox still do not support `<details>`..
`<summary>`. We will see in the next section of this course how to add retro-compatibility to a Web site that uses these elements, so that they will be shown correctly even on browsers that do not support them.