# ADVANCED PROGRAMMING FOR HTML5&CSS

Wen-Yen Wang

# Images in html5

### <img>

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <head>
         <title> The Views</title>
         <!-- <li>k rel="stylesheet" href="ex-0401-style.css"> -->
   </head>
    <body>
 9 🔻
     <center>
         <h2>HTML Image</h2>
10
11
          <img src="./photos/v1.jpg" title="The view is ......</pre>
12
              "alt="The photo is gone!" width="500" height="333">
13
   </center>
                                  HTML Image
    </body>
14
   </html>
15
```

The view is .....

#### **HTML Image**

The photo is gone!



# <img>: title and alt

• HTML img title 與 img alt 的差別在於 "使用的目的與呈現效果 "兩方面,簡單來說 img title 與 img alt 是兩個不同的東西,img title 是圖片標題,有點類似網頁標題的意思,用來標示圖片的說明文字,當滑鼠移到圖片上就會自動顯示出來,而 img alt 可就完全不同囉! img alt 是圖片的替代文字,所謂替代文字的意思就是在圖片失效的時候所要呈現的文字,如果圖片可以正常顯示,則 img alt 就不會有任何的功能。

# Image Size

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <head>
        <style>
          /* This stylesheet sets the width of all images to 100%: */
 6 ▼
       img {
 7
               width: 100%;
                                             Styling Images
                                             The image below has the width attribute set to 128 pixels, but the stylesheet overrides it, and sets the width to 100%
 8
        </style>
 9
10
11
     </head>
                                             The image below uses the style attribute, where the width is set to 128 pixels which overrides the styleshee
12
13 ▼ <body>
14
        <h2>Styling Images</h2>
        The image below has the width attribute set to 128 pixels,
15
            but the stylesheet overrides it, and sets the width to 100%.
16
        <img src="./photos/b.jpg" width="128" height="128">
17
18
19
        The image below uses the style attribute, where the width
            is set to 128 pixels which overrides the stylesheet:
20
        <img src="./photos/b.jpg" style="width:128px;height:128px;">
21
22
23
      </body>
                                                                                      ex-0402.html
      </html>
24
```

### Path used

- Absolute path in html5
- Relative path in html5

### Image Maps

Example

- The <map> tag defines an image-map. An image-map is an image with clickable areas.
- In the image below, click on the computer, the phone, or the cup of coffee:
- The name attribute of the <map> tag is associated with the <img>'s usemap attribute and creates a relationship between the image and the map.
- The <map> element contains a number of <area> tags, that define the clickable areas in the image-map.

Image Maps

Click on the computer, the phone, or the cup of coffee to

```
An image-map, with clickable areas:

<img src="planets.gif" width="145" height="126" alt="Planets" usemap="#planetmap">

<map name="planetmap">

<area shape="rect" coords="0,0,82,126" href="sun.htm" alt="Sun">

<area shape="circle" coords="90,58,3" href="mercur.htm" alt="Mercury">

<area shape="circle" coords="124,58,8" href="venus.htm" alt="Venus">

</map>
```

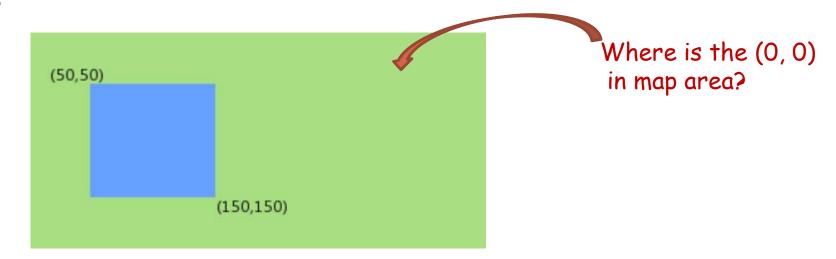
### Image maps - syntax

#### HTML Image Map 影像地圖語法規則

```
<img src="背景圖片網址" width="圖片寬度" height="圖片高度" usemap="#影像地圖名稱">
<map name="影像地圖名稱">
<area shape="圖形的形狀" coords="圖形座標" href="超連結">
</map>
```

### Image Maps

- Used shapes:
- FYI:



### Image Maps

```
<!DOCTYPE html>
 2 ▼ <html>
    <body>
 5
    <h2>Image Maps</h2>
    Click on the computer, the phone, or
        the cup of coffee to go to a new page and
 7
        read more about the topic:
 8
        <img src="./photos/workplace.jpg" alt="Workplace"</pre>
10
         usemap="#workmap" width="400" height="379">
11
12
13 ▼
        <map name="workmap">
         <area shape="rect" coords="34,44,270,350"</pre>
14
15
               href="./photos/a.jpg">
         <area shape="rect" coords="290,172,333,250"</pre>
16
17
               href="http://www.ksu.edu.tw/">
         <area shape="circle" coords="337,300,44"</pre>
18
19
               href="./photos/c.jpg">
20
        </map>
21
22
    </body>
23
    </html>
```

#### **Image Maps**

Click on the computer, the phone, or the cup of coffee to go to a ne



# Background Image in <body>

```
<!DOCTYPE html>
 2 ▼ <html>
    <head>
      <style>
        /* This stylesheet sets the width of all images to 100%: */
        h2, p {
          color: red;
      </style>
    </head>
12
    <body style="background-image:url('./photos/i.jpg');">
14
    <h2>Background Image</h2>
16
    By default the background image will repeat itself <br>
        if it is smaller than the element where it is specified, <br>
18
        in this case the BODY element.
20
    </body>
    </html>
```



### Image Floating

 Use the CSS float property to let the image float to the right or to the left of a text:

```
1 <!DOCTYPE html>
2 ▼ <html>
3 ▼ <body>
   <h2>Floating Images</h2>
 6
7 ▼ 
8 <img src="./photos/programmer6.gif" alt="Smiley face" style="float:right;width:42px;height:42px;">
  A paragraph with a floating image on the RHS.
10 
11
12 ▼ 
    <img src="./photos/programmer6.gif" alt="Smiley face" style="float:left;width:42px;height:42px;">
    A paragraph with a floating image on the LHS.
   15
16
            Floating Images
   </body>
   </html>
```

A paragraph with a floating image on the RHS.



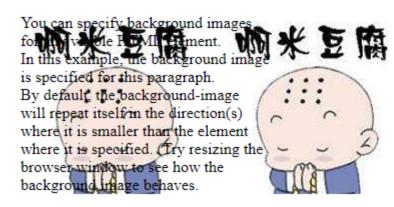


A paragraph with a floating image on the LHS.

# Background Image in

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <body>
 4
 5
    <h2>Background Image</h2>
 6
   You can specify background images <br>
   for any visible HTML element. <br>
9
   In this example, the background image<br>
10
   is specified for this paragraph. <br>
11
   By default, the background-image<br>
12
   will repeat itself in the direction(s) <br>
13
   where it is smaller than the element<br/>
14
   where it is specified. (Try resizing the <br >
15
16
   browser window to see how the <br>
   background image behaves.
17
   18
19
20
    </body>
```

#### Background Image







ex-0408.html

### Tables in html5

### Defining an HTML Table

- An HTML table is defined with the tag.
- Each table row is defined with the 
   tag.
- A table header is defined with the tag. By default,
   table headings are bold and centered.
- A table data/cell is defined with the tag.

### 

```
<!DOCTYPE html>
1
2 ▼ <html>
3 ▼ <body>
4
5
  <h2>Basic HTML Table</h2>
6
7 ▼ 
    8 V
9
     Firstname
     Lastname
10
11
     Age
12
    Basic HTML Table
13 V
   14
     Jill
                    Firstname
                               Lastname
15
     Smith
                Jill
                           Smith
     50
16
    17
                Eve
                           Jackson
18 ▼
    John
                           Doe
     Eve
19
     Jackson
20
21
     94
22
   23 ▼
    24
     John
     Doe
25
26
     80
27
    28
  29
  </body>
30
31
  </html>
```

ex-0409.html

Age

50

94

80

### How to center the data in

• Not html5 way: not working in html5: put align="center" in one of follwings

Basic HTML Table

\ \ \ <

Basic HTML Tabl	le	
Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

 html5 ways: using css settings (style sheet): using one of 3 css ways to set up "center" value in the tag you choose as follows



- If you do not specify a border for the table, it will be displayed without borders. Namely, this is a default setting.
- A border is set using the css border property:

```
<style>
table, th {
  border: 5px solid black;
}
td {
  border: 1px solid black;
}
</style>
```

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

- If you do not specify a border for the table, it will be displayed without borders.
- A border is set using the css border property.
- CSS border-collapse 屬性的功能是用來將表格欄位邊框合併,讓表格變得更美化

```
v <style>
v table, th, td {
    border: 1px solid black;
    border-collapse: collapse;
}
v th, td {
    text-align: right;
}
</style>
```

Firstname	Lastname	Age
Ji11	Smith	50
Eve	Jackson	94
John	Doe	80

- CSS border-collapse property syntax:
  - ➤ border-collapse: 參數值;
- CSS border-collapse 屬性的參數值有三個,分別為 separate、collapse 以及 inherit,寫法如下。
  - ▶border-collapse:separate; //預設值,邊框彼此間分開
  - ▶border-collapse:collapse; //邊框合併為單一邊框
  - ▶border-collapse:inherit; //繼承自父層的 border-collapse 屬性值。 (p.s.第三種屬性值 inherit 較不受到 IE 瀏覽器的支持,建議不要使用)

#### ex.

```
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: separate;
}
th, td {
  text-align: right;
}
</style>
```

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
4 ▼ <style>
5 ▼ table, th, td {
6    border: 1px solid black;
7    border-collapse: collapse;
8  }
9
10 ▼ th, td {
11    text-align:center;
12  }
13
14 </style>
```

Firstname	Lastname/ age	
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
Firstname
Lastname/ age 
>
Jill
Smith
50
>
Eve
Jackson
94
>
John
Doe
80
```

How about the rows spanned below?

Firstname	Lastname/ age	
Jill	Smith	50
Eve	Jackson	94
	Doe	80

### Adding a Caption

#### **Basic HTML Table**

#### My friends

Firstname	Lastname/ age	
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Using table name and background color

```
v <style>
v table#t01, th, td{
    border: 1px solid black;
    border-collapse: collapse;
    background-color: lightblue;
}
vth, td {
    text-align:center;
}
</style>
</head>
v <body>
<h2>Basic HTML Table</h2>
v
```

My friends

Firstname	Lastname/ age	
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### Different colors

```
<caption> My friends </caption>
Firstname
 Lastname/ age 
Jill
Smith
50
Eve
Jackson
94
John
Doe
80
```

#### Basic HTML Table

My friends

Firstname	Lastname/ age	
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

### css in html5

# The End