BASIC PROGRAMMING FOR HTML5&CSS

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html5

HTML5

</html>

• HTML5 is the latest and most enhanced version of HTML. Technically, HTML is not a programming language, but rather a markup language. In this class, we will discuss the features of HTML5 and how to use it in practice.

<head></head>	>	
<tit< th=""><th>le>Page title</th><th></th></tit<>	le>Page title	
<th> ></th> <th></th>	>	
<body></body>	>	
<	<h1>This is a heading</h1>	
<	This is a paragraph.	
_	This is another paragraph.	
<td></td> <td></td>		

HTML5 - Syntax

 HTML 5 authors would use simple syntax to specify DOCTYPE as follows –

```
<!DOCTYPE html>
```

Character Encoding

```
<meta charset = "UTF-8">
```

 The <script> tag-It's common practice to add a type attribute with a value of "text/javascript" to script elements as follows -

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

 ✓ HTML 5 removes extra information required and you can use simply following syntax –

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

HTML5 - Syntax

The tag

```
<link rel = "stylesheet" type = "text/css" href = "stylefile.css">
```

or

```
<link rel = "stylesheet" href = "stylefile.css">
```

HTML5 Elements

- HTML5 elements are marked up using start tags and end tags. Tags are delimited using angle brackets with the tag name in between.
- The difference between start tags and end tags is that the latter includes a slash before the tag name.
- Following is the example of an HTML5 element –

• HTML5 tag names are case insensitive and may be written in all uppercase or mixed case, although the most common convention is to stick with lowercase.使用的 話則可自動跳到下一段落,也就是中間會空一行.若無, 滿一個畫面才會跳下一行

HTML5 Attributes

- Elements may contain attributes that are used to set various properties of an element.
- Some attributes are defined globally and can be used on any element, while others are defined for specific elements only. All attributes have a name and a value and look like as shown below in the example.
- Following is the example of an HTML5 attribute which illustrates how to mark up a div element with an attribute named class using a value of "example" –

```
<div class = "example">...</div>
```

Code it

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <head>
      <meta charset="utf-8">
      <title>HTML5 class sample program</title>
    </head>
 7 ▼ <body>
      <h1>I'm headline 1</h1>
                                            HTML5 class sample program X
 8
      <h2>I'm headline 2</h2>
                                                      (i) 127.0.0.1:3333/ex-0301.html
      <h3>I'm headline 3</h3>
10
11 <h4>I'm headline 4</h4>
                                           I'm headline 1
12 <h5>I'm headline 5</h5>
13 <h6>I'm headline 6</h6>
                                           I'm headline 2
14
    </body>
15
    </html>
                                           I'm headline 3
                                           I'm headline 4
                                           I'm headline 5
```

I'm headline 6

 Web Forms is an extension to the forms features found in HTML4. Form elements and attributes in HTML5 provide a greater degree of semantic mark-up than HTML4 and free us from a great deal of tedious scripting and styling that was required in HTML4.

```
<form>
.
form elements
.
</form>
```

 The <input> element uses the type attribute to specify the data type. It provides following types – ex.

Туре	Description
<input type="text"/>	Defines a one-line text input field
<input type="radio"/>	Defines a radio button (for selecting one of many choices)
<input type="submit"/>	Defines a submit button (for submitting the form)

• The <input> element uses the **type** attribute to specify the data type. It provides following types -ex.

Type & Description text A free-form text field, nominally free of line breaks. password A free-form text field for sensitive information, nominally free of line breaks. checkbox A set of zero or more values from a predefined list. radio An enumerated value. submit A free form of button initiates form submission. file

An arbitrary file with a MIME type and optionally a file name.

image

A coordinate, relative to a particular image's size, with the extra semantic that it must be the last value selected and initiates form submission.

hidden

An arbitrary string that is not normally displayed to the user.

select

An enumerated value, much like the radio type.

textarea

A free-form text field, nominally with no line break restrictions.

button

A free form of button which can initiates any event related to button.

HTML Input Types

Here are the different input types you can use in HTML:

```
<input type="button">
<input type="checkbox">
<input type="color">
<input type="date">

    <input type="datetime-local">

<input type="email">
<input type="file">
<input type="hidden">
<input type="image">
<input type="month">
<input type="password">
<input type="radio">
<input type="range">
<input type="reset">
<input type="search">
<input type="submit">
<input type="tel">
<input type="text">
<input type="time">
<input type="url">
<input type="week">
```

Code it

```
<!DOCTYPE html>
<html>
<body>
<h2>HTML Forms</h2>
<form action="/action_page.php">
 First name: <br>
 <input type="text" name="firstname" value="Mickey">
 (br)
 Last name: <br>
  <input type="text" name="lastname" value="Mouse">
 <br><br><br><
  <input type="submit" value="Submit">
</form>
If you click the "Submit" button, the form-data will be sent to a page called
"/action_page.php".
</body>
</html>
```

HTML Forms

First name:

Mickey

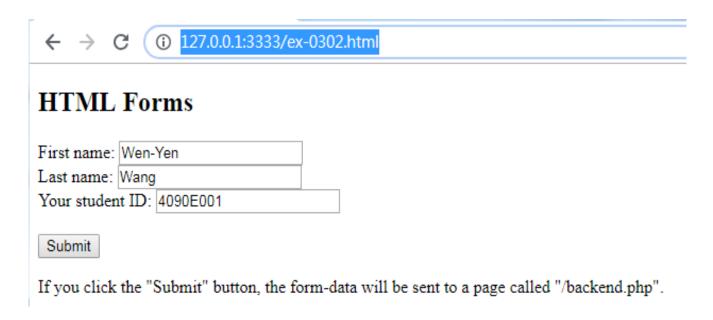
Last name:

Mouse

Submit

If you click the "Submit" button, the form-data will be sent to a page called "/action page.php".

Write a html5 to display the results below.



 Write a html5 code that connects to a css file to display the results below.



HTML Forms

First name:	Wen-Yen	
Last name:	Wang	
Your studen	t ID: 4090E001	

Submit

If you click the "Submit" button, the form-data will be sent to a page called "/backend.php".



HTML Forms



Submit

Other

If you click the "Submit" button, the form-data will be sent to a page called "/backend.php".

Design a html5 code to show the result as below.

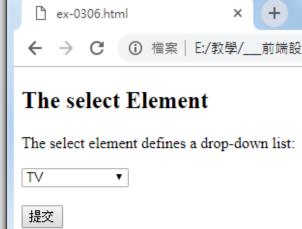
Enter email: wwang@mail.ksu.edu.tw submit

The <select> Element

```
<form action="/action_page.php">
 <select name="cars">
   <option value="op1">TV</option>
   <option value="op2">Android phone</option>
   <option value="op3">iPhone</option>
   <option value="op4">Bike</option>
 </select>
 <input type="submit">
</form>
                          提交
```

Select option

```
<!DOCTYPE html>
 2 ▼ <html>
    <body>
 4
    <h2>The select Element</h2>
    The select element defines a drop-down list:
  ▼ <form action="/action page.php">
      <select name="goods">
        <option value="op1">TV</option>
10
        <option value="op2">Android phone</option>
11
12
        <option value="op3">iPhone</option>
        <option value="op4">Bike</option>
13
14
      </select>
15
    <br><br><br><
      <input type="submit">
16
17
    </form>
18
    </body>
19
    </html>
20
```

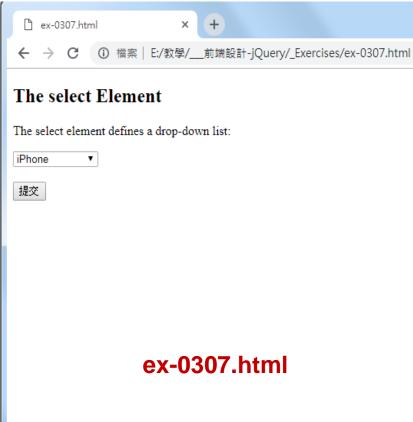


ex-0306.html

Pre-selected option

- The <option> elements defines an option that can be selected.
- By default, the first item in the drop-down list is selected.
- To define a pre-selected option, add the selected attribute to the option:





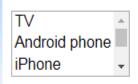
Visible Values

```
<!DOCTYPE html>
    <html>
    <body>
    <h2>The select Element</h2>
    The select element defines a drop-down list:
    <form action="/action page.php">
      <select name="goods" size=3>
        <option value="op1">TV</option>
10
        <option value="op2">Android phone</option>
11
12
        <option value="op3">iPhone</option>
        <option value="op4">Bike</option>
13
        <option value="op5">car</option>
14
    </select>
15
16
    <br><br><br>>
      <input type="submit">
17
    </form>
18
19
20
    </body>
    </html>
21
```



The select Element

The select element defines a drop-down list:



提交

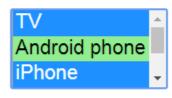
ex-0308.html

HTML Forms

First name: Wen-Yen

Last name: Wang

Your student ID: 4090E001





If you click the "Submit" button, the form-data will be sent to a page called "/backend.php".

HTML Forms

Writing: 勞作教育需撰寫兩篇心得上傳! First name: Wen-Yen Last name: Wang Your student ID: 4090E001 Android phone **iPhone**



If you click the "Submit" button, the form-data will be sent to a page called "/backend.php".

Radio button

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <head>
        <meta charset="utf-8">
        <title>My HTML5 experiment</title>
        <link rel="stylesheet" href="ex-0309-style.css">
 6
      </head>
 8
 9 ▼ <body>
    <h2>HTML Forms</h2>
11
12 ▼ <form action="/backend.php">
      First name:
      <input type="text" name="firstname" value="Wen-Yen">
14
15
16
      Last name:
      <input type="text" name="lastname" value="Wang">
17
18
      <br>
19
      Your student ID:
      <input type="text" name="id" value="4090E001">
20
      <hr><hr><hr><
21
22
23
      <h2>Radio Buttons</h2>
      <input type="radio" name="dept" value="IS department" checked> IS department<br/>br>
24
      <input type="radio" name="dept" value="IM department"> IM department<br>
25
      <input type="radio" name="dept" value="IC department"> IC department<br><br><br>
26
27
      <input type="submit" value="Submit">
28
29
    </form>
30
    If you click the "Submit" button, the form-data will be sent to a page called ",
32
    </body>
34 </html>
```



Submit

If you click the "Submit" button, the form-d "/backend.php".

HTML Forms

First name: Wen-Yen

Last name: Wang

Your student ID: 4090E001

Radio Buttons

- IS department
- IM department
- IC department

Checkboxes

apple

orange

cherry

Submit

ex-0312.html

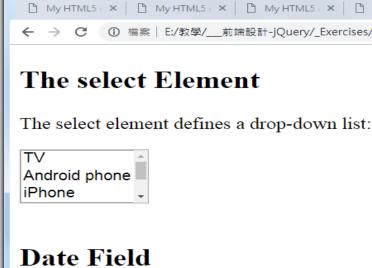
If you click the "Submit" button, the form-data will be sent to a page called "/backend.php".

Alert action

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <body>
 4
 5
    <h2>The select Element</h2>
    The select element defines a drop-down list:
 6
 7
8 ▼ <form action="/action_page.php">
      <select name="goods" size=3>
         <option value="op1">TV</option>
10
        <option value="op2">Android phone</option>
11
        <option value="op3">iPhone</option>
12
        <option value="op4">Bike</option>
13
        <option value="op5">car</option>
14
15
      </select>
16
      <br><br>>
      <input type="button" onclick="alert('Hello Everyone!')" value="Click Me!">
17
18
    </form>
19
                    MyHTML5 ∈ X | MyHTML5 ∈ X | MyHTML5 ∈ X | MyHTML5 ∈ X
                                                                   ex-0313.htm ×
20
    </body>
                   ← → C ① 檔案 | E:/教學/__前端設計-jQuery/_Exercises/ex-0313.html
                                                                                   ⊕ ☆
21
    </html>
                                      這個網頁顯示
                   The select
                                      Hello Everyone!
                                                                       確定
                   The select element defines a drop-down list:
                   TV
                   Android phone
                    iPhone
                                                                              ex-0313.html
                    Click Me!
```

Date type

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <body>
 4
   <h2>The select Element</h2>
    The select element defines a drop-down list:
 6
8 ▼ <form action="/action_page.php">
      <select name="goods" size=3>
10
        <option value="op1">TV</option>
        <option value="op2">Android phone</option>
11
        <option value="op3">iPhone</option>
12
        <option value="op4">Bike</option>
13
        <option value="op5">car</option>
14
15
      </select>
16
      <br>><br>><br>>
17
      <h2>Date Field</h2>
      <input type="date" name="bday">
18
      <input type="button" onclick="alert('Hello Everyone</pre>
19
20
    </form>
21
22
    </body>
    </html>
23
                            ex-0314.html
```





Range

```
<!DOCTYPE html>
 2 ▼ <html>
 3 ▼ <body>
    <h2>The select Element</h2>
    The select element defines a drop-down list:
 7
 8 ▼ <form action="/action page.php">
      <select name="goods" size=3>
 9 ▼
        <option value="op1">TV</option>
10
        <option value="op2">Android phone</option>
11
        <option value="op3">iPhone</option>
12
13
        <option value="op4">Bike</option>
        <option value="op5">car</option>
14
      </select>
15
      <br><br>>
16
17
      <h2>Range Field</h2>
      Points:
18
      <input type="range" name="points" min="0" max="10">
19
20
      <br>>
      <input type="submit">
21
22
    </form>
23
24
    </body>
25
    </html>
```



The select Element

The select element defines a drop-down list:



Range Field



ex-0315.html

Please select your preferred contact method:

○ Email ○ Phone ○ Mail

Submit

The End