



前端網絡開發人員證書

7. HTML: Form I

Presented by Krystal Educational Platform



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7.1 Revise

7.1 Revise



- Can you name any multimedia?
 - And their tag & attributes?
- How to embed a Google Map?
- Which tags help us to draw a star? (Form last lesson)



7.2 What is form?

7.2 What is form?



- A container for <input>
 - e.g. text fields, checkboxes, radio buttons, submit buttons
- Used to collect user input
- User input mostly sends to a server for processing

```
<form>
</form>
```

7.2.1 Form: Common attributes



- **id**
 - Identifies an unique id so that the form can be recognize in commands (e.g. JS, Python)
- **action**
 - Specifies where to send the form data
 - E.g. PHP file (Commonly used), other HTML (with Python supported)
- **method**
 - Get (default)
 - Post: Safer, can send more data

7.2.2 Form layout: <fieldset>



- To identify different groups of input
- Title of the <fieldset>: <legend>

```
<fieldset style="width:20px;">
  <legend>Name</legend>
  <input>
</fieldset>
```

Name



7.3 Input

7.3 Input: <input>



- The most common form element
- Attribute (commonly used)
 - type
 - Default: text `<input type="text">`
 - id, name
 - placeholder
 - A hint for expected value
 - value
 - Change default input

Use a **label** to tell users what the input is for

```
<label for="name">Name</label>
<input id="name" name="name" placeholder="e.g. Choco Lau" >
```

Name

7.3.1 type="button"



```
<label for="click">Click</label>
<input type="button" id="click" name="click">
```

Click

- Use value attribute to change the default value

```
<input type="button" id="click" name="click" value="Click me!">
```

Click

7.3.2 type="checkbox"



- Used for multiple selection
- Default: Not checked

```
<label for="tick">Tick</label>
<input type="checkbox" id="tick" name="tick" value="ticked">
```

Tick → Tick

- To change the default:

```
<input type="checkbox" id="tick" name="tick" value="ticked" checked>
```

Tick

7.3.3 type="color"

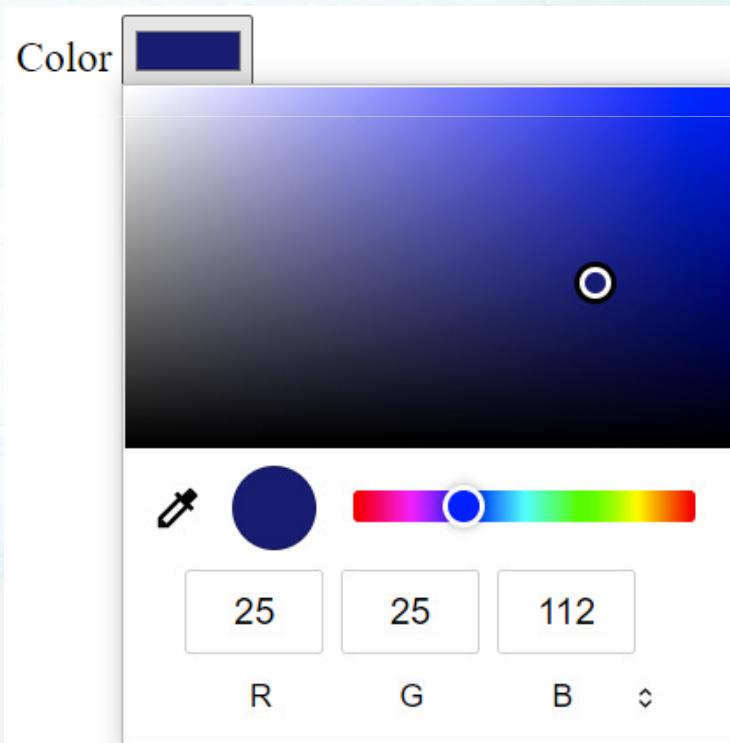
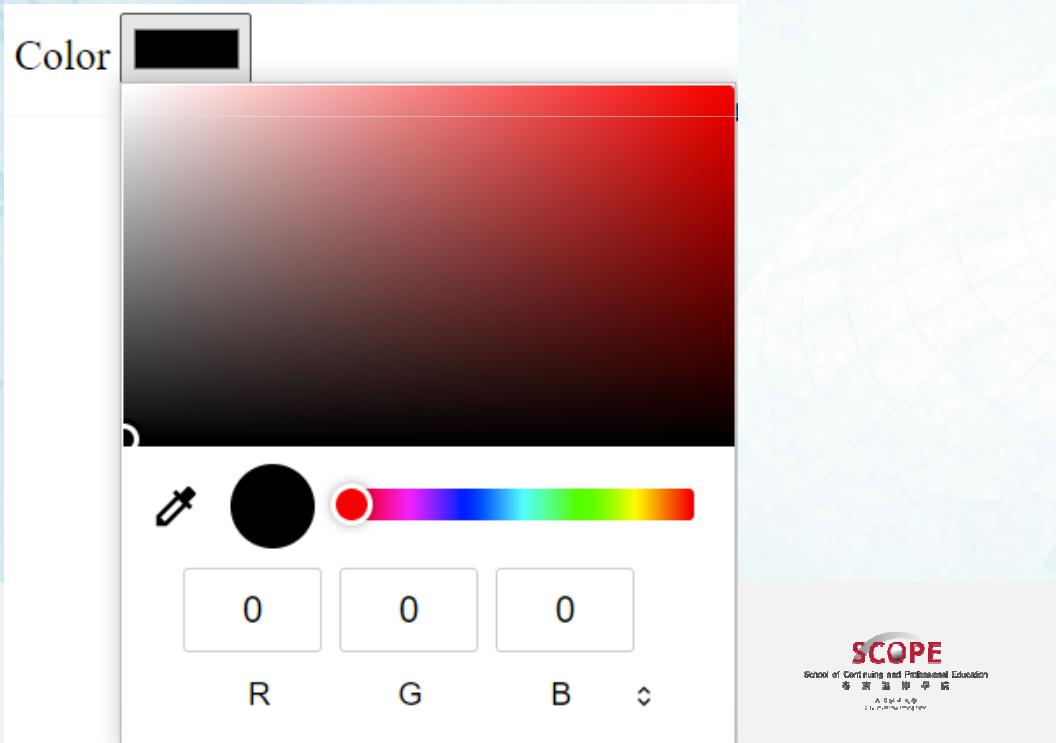


Default: Black

```
<label for="color">Color</label>  
<input type="color" id="color" name="color">
```

To change the default, enter other color's HEX:

```
<input type="color" id="color" name="color" value="#191970">
```



7.3.3 type="color"



- For more HTML color codes:
<https://htmlcolorcodes.com/>

7.3.4 type="date"



```
<label for="date">Date</label>
<input type="date" id="date" name="date">
```

Date

2021年05月

日	一	二	三	四	五	六
25	26	27	28	29	30	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	31	1	2	3	4	5

今天

- To change the default:

```
value="2000-02-19"
```

Date

7.3.5 type="datetime-local"



```
<label for="datetime">Datetime</label>
<input type="datetime-local" id="datetime" name="datetime">
```

Datetime 14/05/2021 16:23

日	一	二	三	四	五	六
25	26	27	28	29	30	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	31	1	2	3	4	5

今天

INSTAL INSTITUTE
EXCELLENT HOME TECHNOLOGY

7.3.6 type="month"



```
<label for="month">Month</label>
<input type="month" id="month" name="month">
```

Month

The screenshot shows a dropdown menu for a month input field. The menu is titled '2021' and lists the months from '一月' to '十二月'. The month '五月' (May) is highlighted with a blue background, indicating it is the selected value. The input field above the dropdown shows the value '2000年01月'.

- To change the default:

`value="2000-01"`

Month

7.3.7 type="week"



```
<label for="week">Week</label>
<input type="week" id="week" name="week">
```

Week

2021年05月 ↑ ↓

週	日	一	二	三	四	五	六
17	25	26	27	28	29	30	1
18	2	3	4	5	6	7	8
19	9	10	11	12	13	14	15
20	16	17	18	19	20	21	22
21	23	24	25	26	27	28	29
22	30	31	1	2	3	4	5

本週

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7.3.8 type="time"



```
<label for="time">Time</label>
<input type="time" id="time" name="time">
```

Time

14 46

15	47
16	48
17	49
18	50
19	51
20	52

- To change the default:

`value="00:00"`

Time

7.3.9 type="file"



```
<label for="file">File</label>
<input type="file" id="file" name="file">
```

File | 選擇檔案 | 未選擇任何檔案

7.3.10 type="hidden"



- A hidden field will NOT be displayed, but the value will be sent when submitted

```
<label for="hidden">Hidden field</label>
<input type="hidden" id="hidden" name="hidden" value="123">
```

Hidden field

7.3.11 type="number"



- Input other than numbers is NOT allowed

```
<label for="number">No.</label>
<input type="number" id="number" name="number">
```

No.

- To change the range:

```
min="0" max="10"
```

No.

- To change the default value:

```
value="5"
```

7.3.12 type="range"



- Default range: 0-100
- Default: 50

```
<label for="range">Range</label>
<input type="range" id="range" name="range">
```

Range 

- To change the range:

```
min="0" max="10"
```

- To change the default value:

```
value="0"
```

Range 

7.3.13 type="search"



- Defines an input as search input
 - Details will be mentioned in next lesson

```
<label for="search">Search</label>  
<input type="search" id="search" name="search">
```

Search

- Delete button

Search 

7.3.14 type="radio"



- Used for SINGLE selection

```
<label for="fruit">Radio</label>
<input type="radio" name="fruit" id="apple" value="apple">
<input type="radio" name="fruit" id="banana" value="banana">
```

Radio Apple Banana

- To set default selection:

checked

Radio Apple Banana

7.3.15 type="tel"



- Indicates that the input is phone no.
- Nothing special, just displays as a text field

```
<label for="phone">Phone no.</label>
<input type="tel" id="phone" name="phone">
```

Phone no.

7.3.16 type="reset"



- Click to reset all inputs in the form

```
<input type="reset" value="Clear data">
```

Clear data

7.3.17 type="submit"



- To submit the form
- There can only be ONE submit input in a form

```
<input type="submit" id="submit" name="submit" value="Submit">
```

Submit

7.3.18 type="url"



- Only input that starts with **http://** OR **https://** is allowed

```
<label for="number">URL</label>
<input type="url" id="url" name="url">
```

URL

 請輸入網址。

- E.g.

URL

URL

7.3.19 type="email"



- Email type supports validation in some browsers

```
<label for="email">Email</label>
<input type="email" id="email" name="email">
```

! 請在電子郵件地址中包含「@」。'a' 未包含「@」。

A screenshot of a web form. It has a label "Email" and an input field containing "a". Below the input field is a validation message: "請在電子郵件地址中包含「@」。'a' 未包含「@」。". The "type='email'" attribute in the HTML code above is highlighted with a red box.



7.4 Other input methods



7.4 Other input methods



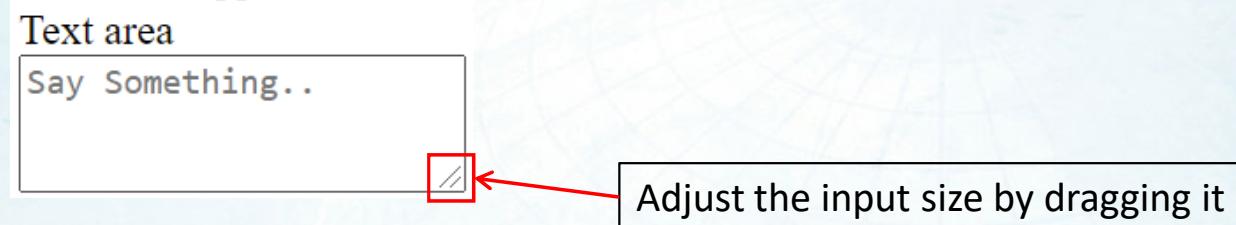
- Text area: <textarea>
- Dropdown: <select>, <optgroup>, <option>

7.4.1 Text area:<textarea>



- Adjustable text area
- Can skip lines

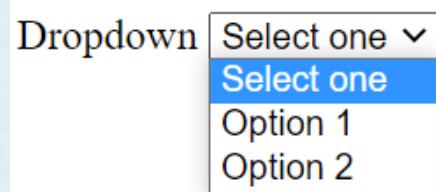
```
<label for="textarea">Text area</label><br>
<textarea id="textarea" rows="3" cols="20" placeholder="Say Something.."></textarea>
```



7.4.2 Dropdown: <select>



```
<label for="dropdown">Dropdown</label>
<select id="dropdown" name="dropdown">
  <option>Select one</option>
  <option value="1">Option 1</option>
  <option value="2">Option 2</option>
</select>
```



- To change the default:

selected

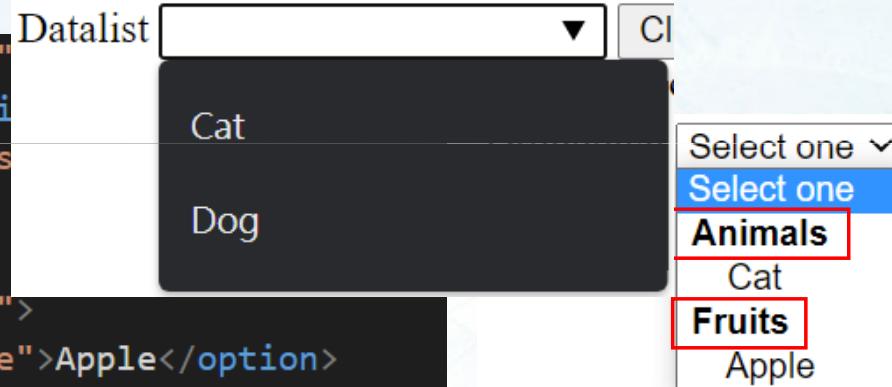
Dropdown Option 1 ▾

7.4.2 Dropdown: <select>



- Option group: <optgroup>

```
<select id="dropdown" name=">
  <option>Select one</option>
  <optgroup label="Animals">
    <option value="cat">Cat</option>
    <option value="dog">Dog</option>
  </optgroup>
  <optgroup label="Fruits">
    <option value="apple">Apple</option>
    <option value="banana">Banana</option>
  </optgroup>
</select>
```



7.4.3 Dropdown: <datalist>



- Use <datalist> when you have lots of options

```
<label for="animal-dropdown">Datalist</label>
<input list="optionList" id="animal-dropdown" name="animal-dropdown">
<datalist id="optionList">
  <option value="Cat"></option>
  <option value="Dog"></option>
</datalist>
```

Datalist

▼

Cat

Dog

A screenshot showing a dropdown menu triggered by a text input field. The input field has a downward arrow icon. A dropdown menu box is open, containing the text "Cat" and "Dog".



7.5 Exercise

7.5 Exercise

7. HTML: Form I

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Create account

Name

e.g. Choco Lau

Username

Phone no.

Email

e.g. ABC@email.com

Gender

Female Male Other Secret

Password

提交

Questionnaire

Tick fruits that you like:

Apple Banana Orange

Which is your favourite animal?

Other opinion:

Say Something..



7.5 Exercise: Suggested answer



```
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <title>Exercise7</title>
5       <meta charset="UTF-8">
6       <meta http-equiv="refresh" content="30">
7       <meta name="viewport" content="width=device-width, initial-scale=1.0">
8   </head>
```

7.5 Exercise: Suggested answer



```
9   <body>
10  |   <!-- Header -->
11  |   <header>
12  |       <h1>7. HTML: Form I</h1>
13  |       <h2>Presented by Krystal Institute</h2>
14  |   </header>
```

7.5 Exercise: Suggested answer



```
15     <main>
16         <fieldset style="width:300px;">
17             <legend>Create account</legend>
18             <form>
19                 <label for="name">Name</label><br>
20                 <input id="name" name="name" placeholder="e.g. Choco Lau">
21                 <br>
22                 <label for="uname">Username</label><br>
23                 <input id="uname" name="uname">
24                 <br>
25                 <label for="phone">Phone no.</label><br>
26                 <input type="tel" id="phone" name="phone">
27                 <br>
28                 <label for="email">Email</label><br>
29                 <input type="email" id="email" name="email" placeholder="e.g. ABC@email.com">
30                 <br>
31                 <label for="gender">Gender</label><br>
32                 <input type="radio" name="gender" id="female" value="female">Female
33                 <input type="radio" name="gender" id="male" value="male">Male
34                 <input type="radio" name="gender" id="other" value="other">Other
35                 <input type="radio" name="gender" id="secret" value="secret">Secret
36                 <br>
37                 <label for="pw">Password</label><br>
38                 <input type="password" id="pw" name="pw">
39                 <br>
40                 <input type="submit" id="submit">
41             </form>
42         </fieldset>
```

7.5 Exercise: Suggested answer



```
43     <fieldset style="width:300px;">
44         <legend>Questionnaire</legend>
45         <label>Tick fruits that you like:</label><br>
46         <input type="checkbox" id="apple" name="apple" value="apple">
47         <label for="apple">Apple</label>
48         <input type="checkbox" id="banana" name="banana" value="banana">
49         <label for="banana">Banana</label>
50         <input type="checkbox" id="orange" name="orange" value="orange">
51         <label for="orange">Orange</label>
52         <br>
53         <label id="fruit">Which is your favourite animal?</label>
54         <select>
55             <option>Select one</option>
56             <optgroup label="Terrestrial">
57                 <option value="cat">Cat</option>
58                 <option value="dog">Dog</option>
59             </optgroup>
60             <optgroup label="Marine">
61                 <option value="fish">Fish</option>
62                 <option>Jellyfish</option>
63             </optgroup>
64         </select>
65         <br>
66         <label for="opinion">Other opinion:</label><br>
67         <textarea id="opinion" rows="3" cols="30" placeholder="Say Something.."></textarea>
68     </fieldset>
69 </main>
```

7.5 Exercise: Suggested answer



```
70      <footer>
71          <!-- copyright -->
72          <div style="text-align: center;">@ 2021 Copyright: Krystal Institute</div>
73      </footer>
74  </body>
75  </html>
```

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MC Quiz



- 10 minutes

<https://www.online-stopwatch.com/countdown/>



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Reference



- W3Schools (2021). *HTML Tutorial* [online] available from <<https://www.w3schools.com/html/default.asp>> [20 May 2021]

