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?

7.2 What is form?

7.2 What is form?

- A container for <input>
  - e.g. text fields, checkboxes, radio buttons, submit buttons
- Use for collecting user input
- User input(s) is sent to a server for processing
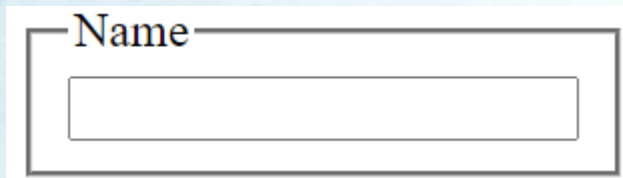
```
<form>
</form>
```

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>
```

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 e.g. Choco Lau

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 Click me!

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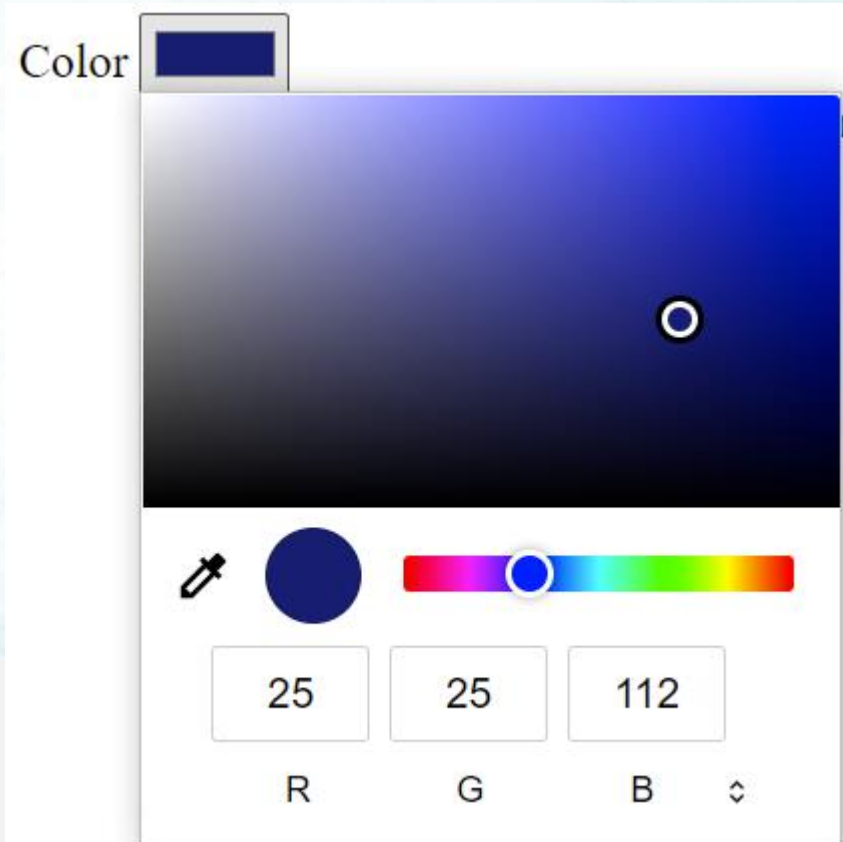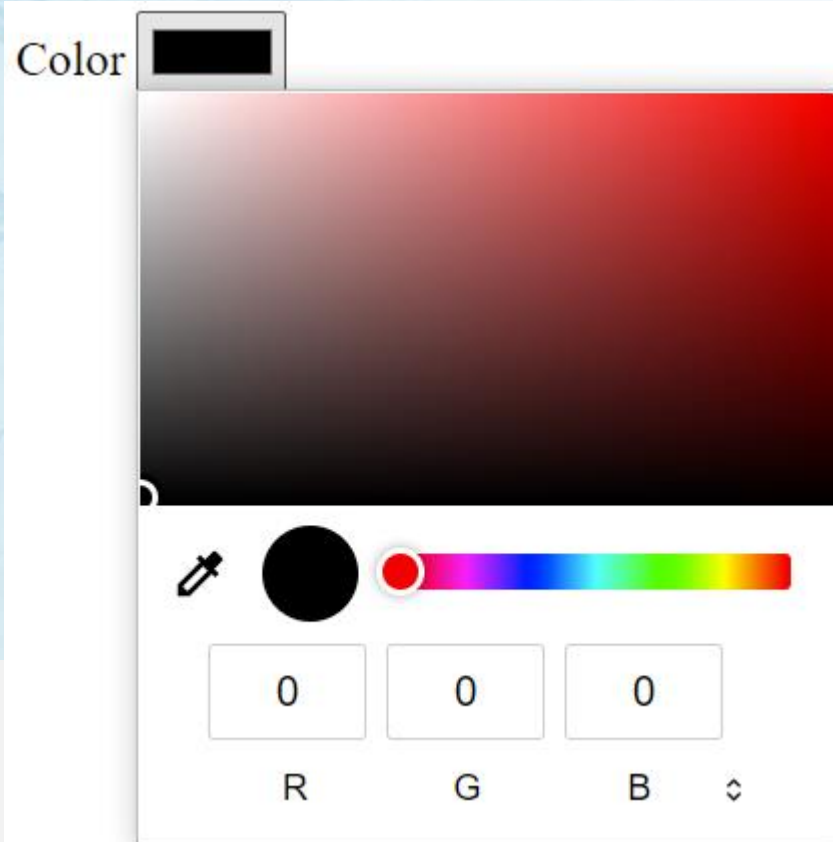
To change the default, enter other color's HEX:

```
<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">
```

- To change the default:

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

7.3.5 type="datetime-local"

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

7.3.6 type="month"

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


- To change the default:

```
value="2000-01"
```

7.3.7 type="week"

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

7.3.8 type="time"

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

- To change the default:

```
value="00:00"
```

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

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

No. `0`

- To change the range:

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

- To change the default value:

No. `5`

```
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"
```
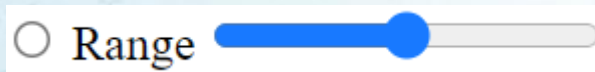
- To change the default value:

```
value="0"
```

○ Range ●▬▬▬▬▬▬▬
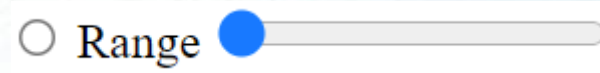
7.3.13 type="search"

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

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

Search [   ]

- Delete button

Search [hi   ✕]

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="url">URL</label>
- <input type="url" id="url" name="url">

URL | a
! 請輸入網址。

URL | http://a
URL | https://a

- E.g.

7.3.19 type="email"

- Email type supports validation in some browsers

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

Email | a | 提交

! 請在電子郵件地址中包含「@」。「a」未包含「@」。

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>
```

Text area

Say Something..

Adjust the input size by dragging it

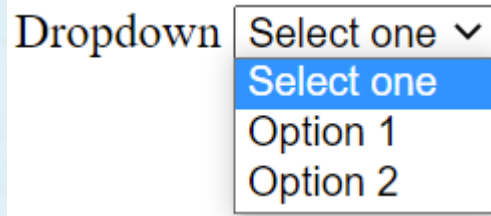# 7.4.2 Dropdown: <select>

```
<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` ▼

Dropdown `Select one` ▼
Select one
Option 1
Option 2

7.4.2 Dropdown: <select>
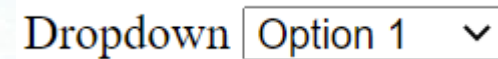
- Option group: <optgroup>

```
<select id="dropdown" name="
    <option>Select one</opti
    <optgroup label="Animals
        <option value="cat"
    </optgroup>
    <optgroup label="Fruits">
        <option value="apple">Apple</option>
    </optgroup>
</select>
```

7.4.3 Dropdown: <datalist>

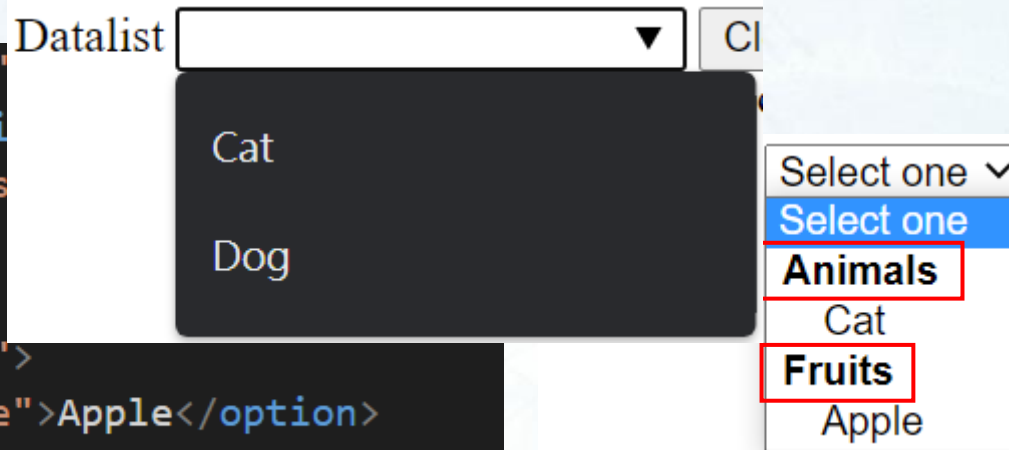- Use <datalist> when you have lots of options

```html
<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 ▼ Cl

Cat

Dog

7.5 Exercise

7.5 Exercise

7.5 Exercise: Suggested answer

```html
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

```html
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 Institue</div>
73        </footer>
74    </body>
75 </html>
```

MC Quiz

- 10 minutes

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

Reference

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