



HTML5 程式設計


INTRODUCTION OF WEB DESIGN

DE - LONG CAL



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- Notepad++ 7.9.5 release
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| Download

- Go to the below web for your download
- <https://code.visualstudio.com/migrate-from-brackets>

The screenshot shows the Visual Studio Code website's migration page for Brackets users. The header includes the Visual Studio Code logo and navigation links: Docs, Updates, Blog, API, Extensions, FAQ, Learn, and a Download button. The main heading is "Visual Studio Code for Brackets users" with a subtext: "Migrating from Brackets? Learn how you can make VS Code feel more familiar." Below this, there are two numbered steps:

- 1. Download VS Code**
Launch it and open your project folder.
A blue button labeled "Download for Windows" with "Stable Build" underneath is shown. A dropdown arrow is to its right. Below this is a button for "Other platforms and Insiders Edition". At the bottom of this section, it says: "By using VS Code, you agree to its [license and privacy statement](#)."
- 2. Install the Brackets extensions**
Bring the same keyboard shortcuts as Brackets and other features you know and love.

Under step 2, there is a box for the "Brackets Extension Pack" by "ms-vscode", which has 15.9K downloads. It describes it as "Popular Brackets features as extensions for VS Code."



| HTML5

- `<!DOCTYPE>` 聲明必須位於HTML5 文檔中的第一行,使用非常簡單:
- For Example:

```
< ! DOCTYPE    html >
< html >
< head >
< meta    charset = " utf-8 " >
< title > 文檔標題 </ title >
</ head >

< body > 文檔內容..... </ body >

</ html >
```



基礎 CSS 示範

Ex1.html + Ex1-style.css

I am a html5 student.

This Is My First CSS Example.

```
1 <!DOCTYPE HTML>
2
3 <html>
4   <head>
5     <meta charset="utf-8">
6
7     <title> My CSS Experiment </title>
8     <link rel = "stylesheet" href = "Ex1-style.css">
9   </head>
10
11 <body>
12   <h1> I am a html5 student. </h1>
13   <p> This Is My First CSS Example. </p>
14 </body>
15 </html>
```

Ex1.html

```
1 p {
2   color: red;
3 }
4
5 h1 {
6   color: blue;
7   border: 2px solid black;
8   background-color: orange;
9 }
```

Ex1-style.css



CSS Selectors

- 選擇器: Selectors
- In CSS Selectors are patterns used to select the elements you want to style.
- w3school 所定義的 Selectors: https://www.w3schools.com/cssref/css_selectors.asp

(a) CSS 設定於 HTML 檔案中，將樣式套用於指定元素。

```
<style type="text/css">
  div { color: Red; }
  p { color: Blue; }
</style>
```

(b) CSS 設定於 HTML 使用不同檔案。

```
h1, p {
  background-color: yellow;
}
```



| Exercise

- 參考: <https://goo.gl/Ebjdo9> CSS 參考手冊

Hello Everyone!

This is a paragraph.

- This is
- A list

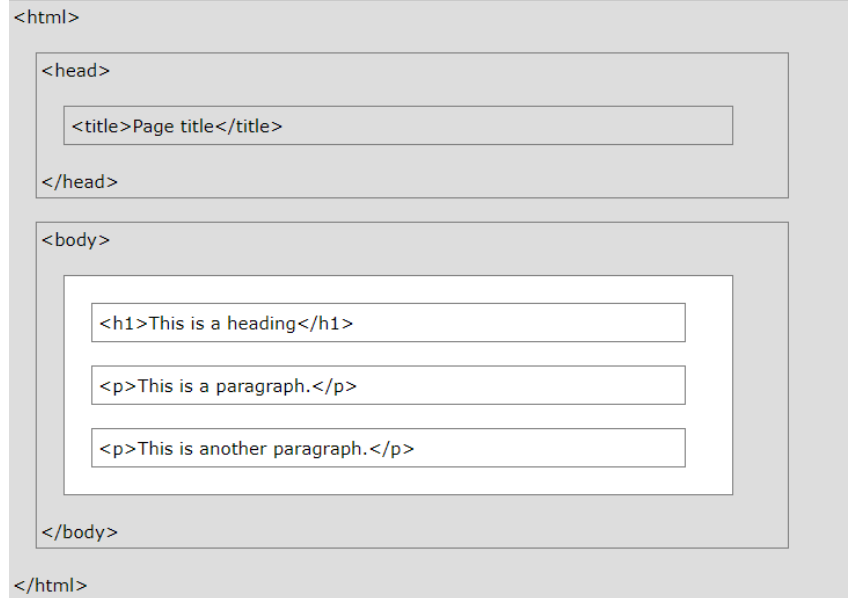


| HTML Page Structure

- Below is a visualization of an HTML Page Structure:
- Note: Only the content inside the `<body>` section is displayed in a browser.

HTML Versions

Year	Version
1991	HTML
1995	HTML 2.0
1997	HTML 3.2
1999	HTML 4.01
2000	XHTML
2014	HTML 5



|Code it



```
1  <!DOCTYPE HTML>
2
3  <html>
4    <head>
5      <meta charset="utf-8">
6
7      <title> HTML5 class sample program </title>
8    </head>
9
10   <body>
11     <h1>Heading 1</h1>
12     <h2>Heading 2</h2>
13     <h3>Heading 3</h3>
14     <h4>Heading 4</h4>
15     <h5>Heading 5</h5>
16     <h6>Heading 6</h6>
17   </body>
18 </html>
```

Ex3.html



HTML5 class sample program x

Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6



HTML Input Types

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

type 值	控制類型	顯示效果
hidden	隱藏欄位	
text (default)	文字輸入欄位	<input type="text" value="你好"/>
search	搜尋欄位	<input type="search" value="天氣預報"/>
tel	電話輸入欄位	<input type="tel" value="0932-333-333"/>
url	URL 輸入欄位 (URL)	<input type="url" value="https://www.google.com.tw/"/>
email	Email 輸入欄位 (E-mail)	<input type="email" value="someone@abc.com"/>
password	密碼輸入欄位	<input type="password" value="....."/>
date	日期輸入欄位	<input type="date" value="2019/08/08"/>
month	月份輸入欄位	<input type="month" value="2019年08月"/>
week	星期輸入欄位	<input type="week" value="2019 年, 第 32 週"/>

time	時間輸入欄位	<input type="time" value="上午 09:10:15"/>
datetime-local	日期時間輸入欄位	<input type="datetime-local" value="2019/08/08 上午 09:20"/>
number	數字輸入欄位	<input type="number" value="999"/>
range	範圍輸入滑桿	<input type="range" value="50"/>
color	顏色輸入，色環表	<input type="color" value="#ffff00"/>
checkbox	複選框	<input type="checkbox"/>
radio	選擇按鈕，單選框	<input type="radio"/>
submit	提交按鈕	<input type="submit" value="這是提交按鈕"/>
image	圖片按鈕	<input type="image" value="不能只有我看到"/>
reset	重置按鈕	<input type="reset" value="這是重置按鈕"/>
button	普通按鈕	<input type="button" value="這是普通按鈕"/>

|Code it



HTML Forms

First Name :

Last Name :

If you click the "Submit" Button,



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> HTML Forms </h2>
11
12     <form action="/action_page.php">
13       First Name: <br>
14       <input type="text" name="Firstname" value="Mickey">
15       <br>
16
17       Last Name: <br>
18       <input type="text" name="LastName" value="Mouse">
19       <br><br>
20
21       <input type="submit" value="Submit">
22     </form>
23
24     <p> If you click the "Submit" Button, the form-data
25       will be sent to a page called "/action_page.php"
26     </p>
27   </body>
28 </html>
```

Ex4.html



The <select> Element

The select Element

BMW ▼

提交

執行 1



The select Element

BMW ▼

BMW

Audi

Benz

Honda

執行 2

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The select Element </h2>
11
12     <form action="/action_page.php">
13         <select name="cars">
14             <option value="car1"> BMW </option>
15             <option value="car2"> Audi </option>
16             <option value="car3"> Benz </option>
17             <option value="car4"> Honda </option>
18         </select>
19
20         <br><br>
21         <input type="submit">
22     </form>
23
24 </body>
25 </html>
```

Ex5.html



Visible Values

The select Element

The select element defines a drop-down list :

執行 1

The select Element

The select element defines a drop-down list :

執行 2

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The select Element </h2>
11     <p> The select element defines a drop-down list: </p>
12
13     <form action="/action_page.php">
14         <select name="cars" size=3>
15             <option value="car1"> BMW </option>
16             <option value="car2"> Audi </option>
17             <option value="car3"> Benz </option>
18             <option value="car4" selected> Honda </option>
19         </select>
20
21         <br><br>
22         <input type="submit">
23     </form>
24
25     </body>
26 </html>
```

Ex6.html



| Radio Button

- **Exercise**

HTML Forms

First Name :

Last Name :

Your student ID :

Radio Button

- ☐ IS department
- ☐ IM department
- ☐ IC department

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

Ex7.html + Ex7-style.css

Radio Button



```
1 ▼ p {                               Ex7-style.css
2     color: blue;
3 }
4
5 ▼ input {
6     color: blue;
7     background-color: orange;
8 }
```

```
1  <!DOCTYPE HTML>
2
3  ▼ <html>
4  ▼   <head>
5      <meta charset="utf-8">
6
7      <title> My HTML5 Experiment </title>
8      <link rel="stylesheet" href="Ex7-style.css">
9  </head>
10
11 ▼   <body>
12
13     <h2> HTML Forms </h2>
14
15 ▼     <form action="/action_page.php">
16         First Name: <input type="text" name="Firstname" value="Mickey"> <br>
17         Last Name: <input type="text" name="LastName" value="Mouse"> <br>
18         Your student ID: <input type="text" name="ID" value="4080E007"> <br>
19
20         <h2> Radio Button </h2>
21
22         <input type="radio" name="dept" value="IS department"> IS department <br>
23         <input type="radio" name="dept" value="IM department"> IM department <br>
24         <input type="radio" name="dept" value="IC department"> IC department <br><br>
25
26         <input type="submit" value="Submit">
27     </form>
28
29 ▼     <p> If you click the "Submit" Button, the form-data
30         will be sent to a page called "/action_page.php".
31     </p>
32 </body>
33 </html>
```

Ex7.html



|Alert action

The select Element

The select element defines a drop-down list :

Click Me!



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The select Element </h2>
11     <p> The select element defines a drop-down list: </p>
12
13     <form action="/action_page.php">
14       <select name="cars" size=3>
15         <option value="car1"> BMW </option>
16         <option value="car2"> Audi </option>
17         <option value="car3"> Benz </option>
18         <option value="car4"> Honda </option>
19         <option value="car4"> Mazda </option>
20       </select>
21
22       <br><br>
23       <input type="button" onclick="alert('Hello HTML5!')" value="Click Me!">
24     </form>
25
26   </body>
27 </html>
```

這個網頁顯示

Hello HTML5!

確定

Ex8.html



Date type

The select Element

The select element defines a drop-down list :

Date Field



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The select Element </h2>
11     <p> The select element defines a drop-down list: </p>
12
13     <form action="/action_page.php">
14         <select name="cars" size=3>
15             <option value="car1"> BMW    </option>
16             <option value="car2"> Audi   </option>
17             <option value="car3"> Benz   </option>
18             <option value="car4"> Honda  </option>
19             <option value="car4"> Mazda  </option>
20         </select>
21
22         <br><br>
23         <h2> Date Field </h2>
24         <input type="date" name="bday">
25         <input type="button" onclick="alert('Hello HTML5!')" value="Click Me!">
26     </form>
27
28 </body>
29 </html>
```

Ex9.html

| Range



The select Element

The select element defines a drop-down list :



Range Field

```
1  <!DOCTYPE HTML>
2
3  <html>
4    <head>
5      <meta charset="utf-8">
6    </head>
7
8    <body>
9
10     <h2> The select Element </h2>
11     <p> The select element defines a drop-down list: </p>
12
13     <form action="/action_page.php">
14       <select name="cars" size=3>
15         <option value="car1"> BMW </option>
16         <option value="car2"> Audi </option>
17         <option value="car3"> Benz </option>
18         <option value="car4"> Honda </option>
19         <option value="car4"> Mazda </option>
20       </select>
21
22       <br><br>
23       <h2> Range Field </h2>
24       <input type="range" name="points" min="0" max="10">
25
26       <br>
27       <input type="submit">
28     </form>
29
30   </body>
31 </html>
```

Ex10.html



| <datalist> Element

The datalist Element

The datalist element specifies a list of pre-defined options for an input element :

Note The datalist tag is not supported in Safari or IE9.

執行 1

The datalist Element

The datalist element specifies a list of pre-defined options for an input element :

- Opera
- Chrome
- Safari
- Firefox
- Internet Explorer

supported in Safari or IE9.

執行 2

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The datalist Element </h2>
11     <p>
12         The datalist element specifies a list of pre-defined options
13         for an input element :
14     </p>
15
16     <form action="/action_page.php">
17         <input list="browsers" name="browser">
18         <datalist id="browsers">
19             <option value="Opera">
20             <option value="Chrome">
21             <option value="Safari">
22             <option value="Firefox">
23             <option value="Internet Explorer">
24         </datalist>
25
26         <br><br>
27         <input type="submit">
28     </form>
29
30     <p> <b>Note</b> The datalist tag is not supported in Safari or IE9.</p>
31 </body>
32 </html>
```

Ex11.html



| <input> + <output> Element

The output Element

The output element represents the result of a calculation.

0 100 + =

提交

執行 1

Note The output element



The output Element

The output element represents the result of a calculation.

0 100 + = 129

提交

Note The output element

執行 2

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10   <h2> The output Element </h2>
11   <p>
12     The output element represents the result of a calculation.
13   </p>
14
15   <form action="/action_page.php"
16     oninput="x.value = parseInt(a.value) + parseInt(b.value)">
17
18     0
19     <input type="range" id="a" name="a" value="50">
20
21     100 +
22     <input type="number" id="b" name="b" value="50">
23
24     =
25     <output name="x" for="a b"> </output>
26
27     <br><br>
28     <input type="submit">
29   </form>
30
31   <p> <strong>Note</strong> The output element </p>
32 </body>
33 </html>
```

Ex12.html



|Attribute: readonly

The readonly Attribute

The readonly attribute specifies that the

First Name :

Last Name :



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The readonly Attribute </h2>
11     <p>
12         The readonly attribute specifies that the
13         input field is read only (cannot be changed):
14     </p>
15
16     <form action="">
17         First Name: <br>
18         <input type="text" name="Firstname" value="John" readonly>
19         <br>
20
21         Last Name: <br>
22         <input type="text" name="LastName">
23         <br><br>
24
25         <input type="submit" value="Submit">
26     </form>
27
28 </body>
29 </html>
```

Ex13.html



|Attribute: disabled

The readonly Attribute

The readonly attribute specifies that the

First Name :

Last Name :



```
1  <!DOCTYPE HTML>
2
3  <html>
4    <head>
5      <meta charset="utf-8">
6    </head>
7
8    <body>
9
10     <h2> The readonly Attribute </h2>
11     <p>
12       The readonly attribute specifies that the
13       input field is read only(cannot be changed):
14     </p>
15
16     <form action="">
17       First Name: <br>
18       <input type="text" name="Firstname" value="John" disabled>
19       <br>
20
21       Last Name : <br>
22       <input type="text" name="LastName">
23       <br><br>
24
25       <input type="submit" value="Submit">
26     </form>
27
28   </body>
29 </html>
```

Ex14.html



Attribute: height & width

The height and width Attributes

The height and width attribute specify the height and width of an element.

First Name :

Last Name :

NEXT

Note : The `input type="image"` sends the X and Y coordinates of the click that activated the image button.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10   <h2> The height and width Attributes </h2>
11 <p>
12   The height and width attribute specify the
13   height and width of an input type="image" element.
14 </p>
15
16 <form action="">
17   First Name : <input type="text" name="Firstname"> <br>
18   Last Name : <input type="text" name="LastName"> <br>
19
20   <input type="image" src="Button.png" alt="Submit" width="100" height="90">
21 </form>
22
23 <p>
24   <b>Note : </b>
25   The input type="image" sends the X and Y coordinates of the click
26   that activated the image button.
27 </p>
28 </body>
29 </html>
```

Ex15.html



Attribute: min & max

The min and max Attributes

The min and max attribute specify the minimum and max

Enter a date before 1980-01-01 :

Enter a date after 2000-01-01 :

Quantity (Between 1 to 5) :

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The min and max Attributes </h2>
11   <p>
12     The min and max attribute specify the
13     minimum and maximum values for an input element.
14   </p>
15
16   <form action="/action_page.php">
17
18     Enter a date before 1980-01-01 :
19     <input type="date" name="bday" max="1979-12-31"> <br>
20
21     Enter a date after 2000-01-01 :
22     <input type="date" name="bday" min="2000-01-02"> <br>
23
24     Quantity (Between 1 to 5) :
25     <input type="number" name="quantity" min="1" max="5"> <br>
26
27     <input type="submit">
28   </form>
29
30   </body>
31 </html>
```

Ex16.html



|Attribute: multiple

The multiple Attribute

The multiple attribute specifies that the user is allowed to enter more

Select images : 未選擇任何檔案

```
1  <!DOCTYPE HTML>
2
3  ▼ <html>
4  ▼   <head>
5       <meta charset="utf-8">
6   </head>
7
8  ▼   <body>
9
10      <h2> The multiple Attribute </h2>
11  ▼   <p>
12       The multiple attribute specifies that the
13       user is allowed to enter more than one value in the input element.
14   </p>
15
16  ▼   <form action="/action_page.php">
17       Select images: <input type="file" name="img" multiple>
18
19       <input type="submit">
20   </form>
21
22   </body>
23 </html>
```

Ex17.html

The multiple Attribute

The multiple attribute specifies that the user is allowed to enter more

Select images : Ex5.html



Attribute: pattern

The pattern Attribute

The pattern attribute specifies a regular expression that

Country code :

The pattern Attribute

The pattern attribute specifies a regular expression that

Country code :

country_code=TWN

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> The pattern Attribute </h2>
11     <p>
12         The pattern attribute specifies a regular expression
13         that the input element's value is checked against.
14     </p>
15
16     <form action="/action_page.php">
17         Country code: <input type="text" name="country_code" pattern="[A-Za-z]{3}"
18         title="Three letter country code">
19
20         <input type="submit">
21     </form>
22
23 </body>
</html>
```


Ex18.html



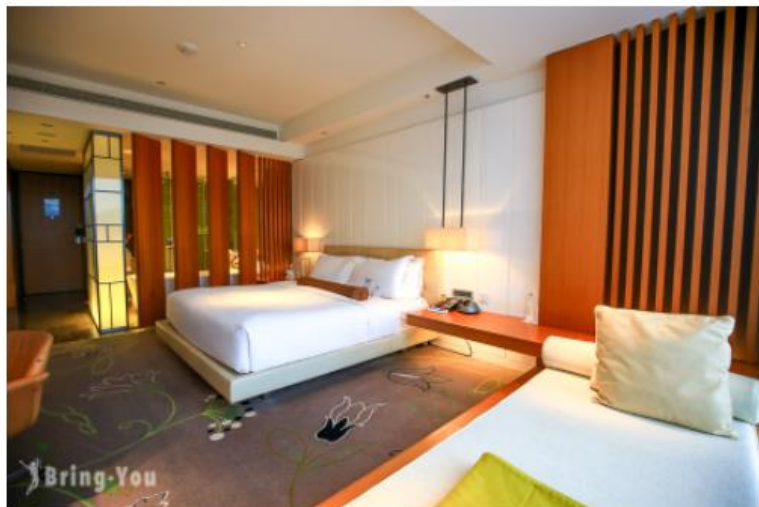
|



HTML Image

 The Photo Is Gone!

HTML Image



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <title> The Views </title>
8  </head>
9
10 <body>
11 <center>
12
13     <h2> HTML Image </h2>
14
15     
17
18 </center>
19 </body>
20 </html>
```

Ex19.html



| Image Size

Styling Images

The image below has the width attribute set to 200 pixels, but the stylesheet overrides it, and sets the width to 100%.



The image below uses the style attribute where the width is set to 200 pixels which overrides the stylesheet :



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6
7    <style>
8      /* This stylesheet sets the width of all images to 100%: */
9      img {
10         width: 100%;
11      }
12    </style>
13  </head>
14
15  <body>
16
17    <h2> Styling Images </h2>
18
19    <p>
20      The image below has the width attribute set to 200 pixels,
21      but the stylesheet overrides it, and sets the width to 100%.
22    </p>
23    
24
25    <p>
26      The image below uses the style attribute where the width
27      is set to 200 pixels which overrides the stylesheet:
28    </p>
29    
30
31  </body>
32 </html>
```

Ex20.html

|Image Maps

• Exercise

Image Maps

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



Computer



Wikipedia says :

A computer is a device that can be instructed to carry out arbitrary sequences of arithmetic or logical operations automatically.

Read more about computer on <https://en.wikipedia.org/wiki/Computer>

Coffee



Wikipedia says :

Coffee is a brewed drink prepared from roasted coffee beans, which are the seeds of berries from the Coffea plant.

Read more about coffee on <https://en.wikipedia.org/wiki/Coffee>



Phone



Wikipedia says :

A telephone, or phone, is a telecommunications device that permits two or more users to conduct a conversation when they are too far apart to be heard directly.

Read more about phone on <https://en.wikipedia.org/wiki/Telephone>



Image Maps

- **Answer**

- Used shapes:

- 方形影像地圖的 <area> 設定範例：

<area shape="rect" coords="X1,Y1,X2,Y2" href="超連結">

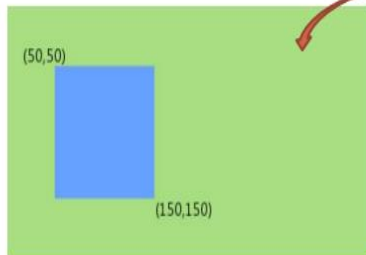
- 圓形影像地圖的 <area> 設定範例：

<area shape="circle" coords="圓心 X,圓心 Y, 半徑" href="超連結">

- 不規則影像地圖 <area> 設定範例：

<area shape="polygon" coords="點座標 1,點座標 2, ..." href="超連結">

- FYI:



Where is the (0,0)
in map area?

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10   <h2> Image Maps </h2>
11   <p>
12     Click on the computer, the phone, or the cup of coffee
13     to go to a new page and read more about the topic:
14   </p>
15
16   
18
19   <map name="workmap">
20
21     <area shape="rect" coords="34,44,270,350" href="Computer.html">
22     <area shape="rect" coords="290,172,333,250" href="Phone.html">
23     <area shape="circle" coords="337,300,44" href="Coffee.html">
24   </map>
25 </body>
26 </html>
```

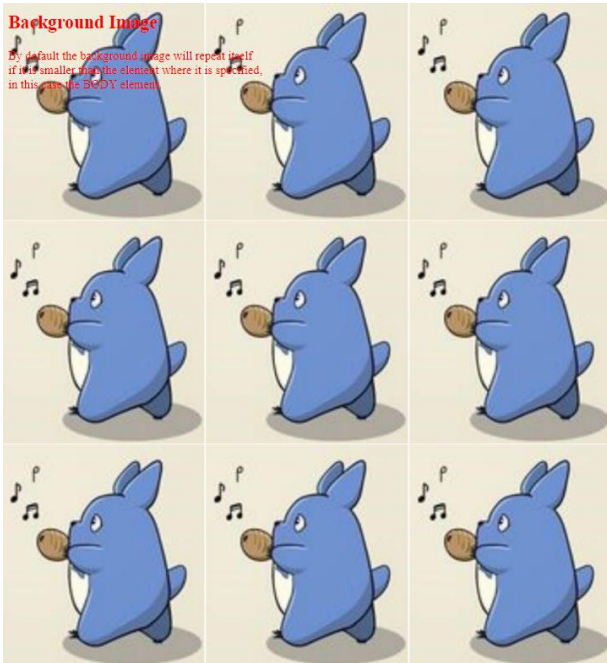
Ex21.html



| Background Image in <body>

Background Image

By default the background image will repeat itself if it is smaller than the element where it is specified, in this case the BODY element.



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          p, h2 {
9              color: red;
10         }
11     </style>
12 </head>
13
14 <body style="background-image: url(Totoro.jpg);">
15
16     <h2> Background Image </h2>
17
18     <p>
19         By default the background image will repeat itself <br>
20         if it is smaller than the element where it is specified, <br>
21         in this case the BODY element.
22     </p>
23 </body>
24 </html>
```

Ex22.html



| Image Floating

Floating Image

A paragraph with a floating image on the RHS.



A paragraph with a floating image on the RHS.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h1> Floating Image </h1>
11
12     <p>
13         
15         A paragraph with a floating image on the RHS.
16     </p>
17
18     <p>
19         
21         A paragraph with a floating image on the RHS.
22     </p>
23
24 </body>
25 </html>
```

Ex23.html



| Background Image in <p>

Background Image

You can specify background images for any visible HTML element. In this example, the background image is specified for this paragraph. By default, the background-image will repeat it self in the direction(s) where it is smaller than the element where it is specified. (Try resizing the browser window to see how the background image behaves.)



```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          p, h2 {
9              color: red;
10         }
11     </style>
12 </head>
13
14 <body>
15
16     <h2> Background Image </h2>
17
18     <p style="background-image: url(Totoro_Logo.png);">
19         You can specify background images <br>
20         for any visible HTML element. <br>
21         In this example, the background image <br>
22         is specified for this paragraph. <br>
23         By default, the background-image <br>
24         will repeat it self in the direction(s) <br>
25         where it is smaller than the element <br>
26         where it is specified. (Try resizing the <br>
27         browser window to see how the <br>
28         background image behaves.)
29     </p>
30 </body>
31 </html>
```

Ex24.html



| <table>

Basic HTML Table

FirstName	LastName	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <h2> Basic HTML Table </h2>
11
12     <table style="width: 100%; color: brown; font-size: 20px;">
13         <tr style="color: black; font: 30px;">
14             <th> FirstName</th>
15             <th> LastName </th>
16             <th> Age      </th>
17         </tr>
18
19         <tr>
20             <td> Jill  </td>
21             <td> Smith </td>
22             <td> 50   </td>
23         </tr>
24
25         <tr>
26             <td> Eve   </td>
27             <td> Jackson </td>
28             <td> 94    </td>
29         </tr>
30
31         <tr>
32             <td> John  </td>
33             <td> Doe   </td>
34             <td> 80    </td>
35         </tr>
36     </table>
37
38 </body>
39 </html>
```

Ex25.html



| Adding a Border

- 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:

```
<head>
  <meta charset="utf-8">

  <style>
    td {
      border: 1px solid black;
    }

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

Basic HTML Table

Ex26.html

FirstName	LastName	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80



| Adding a Border

- 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

```
<head>
  <meta charset="utf-8">

  <style>
    td, th {
      text-align: right;
    }

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

Basic HTML Table

Ex27.html

FirstName	LastName	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80



Adding a Border

```
<head>
  <meta charset="utf-8">

  <style>
    td {
      border: 1px solid black;
    }

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

Basic HTML Table

FirstName	LastName/Age	
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

```
<table style="width: 100%; color: brown; font-size: 20px;">
  <tr style="color: black; font: 30px;">
    <th> FirstName</th>
    <th colspan="2"> LastName/Age    </th>
  </tr>

  <tr>
    <td> Jill  </td>
    <td> Smith </td>
    <td> 50    </td>
  </tr>

  <tr>
    <td> Eve    </td>
    <td> Jackson </td>
    <td> 94     </td>
  </tr>

  <tr>
    <td> John  </td>
    <td> Doe   </td>
    <td> 80    </td>
  </tr>
</table>
```

Ex28.html



| Adding a Border

- **Exercise**
- How about the rows spanned below?

Basic HTML Table

FirstName	LastName/Age	
Jill	Smith	50
Eve	Jackson	94
	Doe	80



| Adding a Border

```
<head>
  <meta charset="utf-8">

  <style>
    td, th {
      text-align: center;
    }

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

```
<body>

  <h2> Basic HTML Table </h2>

  <table style="width: 100%; color: brown; font-size: 20px;">
    <tr style="color: black; font: 30px;">
      <th> FirstName</th>
      <th colspan="2"> LastName/Age      </th>
    </tr>

    <tr>
      <td> Jill   </td>
      <td> Smith </td>
      <td> 50     </td>
    </tr>

    <tr>
      <td rowspan="2"> Eve </td>
      <td> Jackson      </td>
      <td> 94            </td>
    </tr>

    <tr>
      <td> Doe   </td>
      <td> 80    </td>
    </tr>
  </table>

</body>
```

Ex29.html



| Adding a Caption

Basic HTML Table

My Friends

FirstName	LastName/Age	
Jill	Smith	50
Eve	Jackson	94
Jill	Doe	80

```
<table style="width: 100%; color: brown; font-size: 20px;">
  <caption> My Friends </caption>
  <tr style="color: black; font: 30px;">
    <th> FirstName</th>
    <th colspan="2"> LastName/Age      </th>
  </tr>
```

Ex30.html



| Using table name & background color

Basic HTML Table

My Friends

FirstName	LastName/Age	
Jill	Smith	50
Eve	Jackson	94
Jill	Doe	80

```
<body>

    <h2> Basic HTML Table </h2>

    <table id="t01" style="width: 100%; color: brown; font-size: 20px;">

        ...
    </table>
</body>
```



Different colors

```
<head>
  <meta charset="utf-8">

  <style>
    td, th {
      text-align: center;
    }

    table#t01, td, th {
      border: 1px solid black;
      border-collapse: collapse;
    }
  </style>
</head>
```

Basic HTML Table

My Friends

FirstName	LastName/Age	
Jill	Smith	50
Eve	Jackson	94
Jill	Doe	80

```
<table id="t01" style="width: 100%; color: brown; font-size: 20px;">
  <caption> My Friends </caption>
  <tr style="color: black; font: 30px; background-color: aqua;">
    <th> FirstName</th>
    <th colspan="2"> LastName/Age    </th>
  </tr>

  <tr style="background-color: yellow;">
    <td> Jill  </td>
    <td> Smith </td>
    <td> 50    </td>
  </tr>

  <tr style="background-color: yellow;">
    <td> Eve    </td>
    <td> Jackson </td>
    <td> 94     </td>
  </tr>

  <tr style="background-color: yellow;">
    <td> Jill </td>
    <td> Doe  </td>
    <td> 80   </td>
  </tr>
</table>
```

Ex32.html



|The css settings in way 2

Taipei Hotel



The prices in the room is to be determinted.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6
7    <style>
8      h2 {
9        color: white;
10      }
11
12      p {
13        font-size: 20px;
14        font-family: verdana;
15      }
16
17      body {
18        text-align: center;
19        background-color: lightblue;
20      }
21    </style>
22  </head>
23
24  <body>
25
26    <h2> Taipei Hotel </h2>
27
28    
30
31    <p> The prices in the room is to be determinted. </p>
32  </body>
33 </html>
```

Ex33.html



The **element** Selector

- The element selector selects **elements** based on the element name.
- You can select all `<p>` elements on a page like this (in this case, all `<p>` elements will be center-aligned, with a red text color):

Every paragraph will be affected by the style.

Mee too!

And Me!

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8
9          p {
10             color: red;
11             text-align: center;
12         }
13     </style>
14 </head>
15
16 <body>
17
18     <p> Every paragraph will be affected by the style. </p>
19     <p id="para1"> Mee too! </p>
20     <p> And Me! </p>
21 </body>
22 </html>
```

Ex34.html



|The **id** Selector

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8
9          #para1 {
10             color: red;
11             text-align: center;
12         }
13     </style>
14 </head>
15
16 <body>
17
18     <p id="para1"> Hello World! </p>
19     <p> This is paragraph is not affected by the style. </p>
20 </body>
21 </html>
```

Ex35.html

```
<style>

    p#para1 {
        color: red;
        text-align: center;
    }
</style>
```

Hello World!

This is paragraph is not affected by the style.



The **class** Selector

- The class selector selects **elements** with a specific class attribute.
- To select elements with a specific class, write a period (.) character, followed by the name of the class.
- In the example below, all HTML elements with `class="center"` will be red and center-aligned:

Red and center-aligned heading.

Red and center-aligned paragraph.

```
1  <!DOCTYPE HTML>
2
3  <html>
4    <head>
5      <meta charset="utf-8">
6
7      <style>
8
9          .center {
10             color: red;
11             text-align: center;
12         }
13     </style>
14 </head>
15
16 <body>
17
18     <h1 class="center"> Red and center-aligned heading. </h1>
19     <p class="center"> Red and center-aligned paragraph. </p>
20
21 </body>
22 </html>
```

Ex36.html



| Extra (補充)

```
1  <!DOCTYPE HTML>
2
3  ▼ <html>
4  ▼   <head>
5       <meta charset="utf-8">
6
7  ▼   <style>
8
9  ▼       p.center {
10          color: red;
11          text-align: center;
12      }
13   </style>
14 </head>
15
16 ▼ <body>
17
18     <h1 class="center"> This heading will not be affected. </h1>
19     <p class="center"> This paragraph will be red and center-aligned. </p>
20
21 </body>
22 </html>
```

This heading will not be affected.

This paragraph will be red and center-aligned.

Ex37.html



| Extra (補充)

This heading will not be affected.

This paragraph will be red and center-aligned.

This paragraph will be red, center-aligned, and in a large font-size.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6
7    <style>
8      p.large {
9        font-size: 300%;
10     }
11
12     p.center {
13       color: blue;
14       text-align: center;
15     }
16   </style>
17 </head>
18
19 <body>
20
21   <h1 class="center"> This heading will not be affected. </h1>
22   <p class="center"> This paragraph will be red and center-aligned. </p>
23   <p class="center large">
24     This paragraph will be red, center-aligned, and in a large font-size.
25   </p>
26 </body>
27 </html>
```

Ex38.html



Grouping Selectors

- The you have elements with the same style definitions
- It will be better to group the selectors, to minimize the code.
- To group selectors, separate each selector with a comma.

Hello World!

Smaller heading!

This is a paragraph.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          p, h1, h2{
9              color: purple;
10             text-align: center;
11         }
12     </style>
13 </head>
14
15 <body>
16
17     <h1> Hello World!      </h1>
18     <h2> Smaller heading! </h2>
19     <p> This is a paragraph.</p>
20 </body>
21 </html>
```

Ex39.html

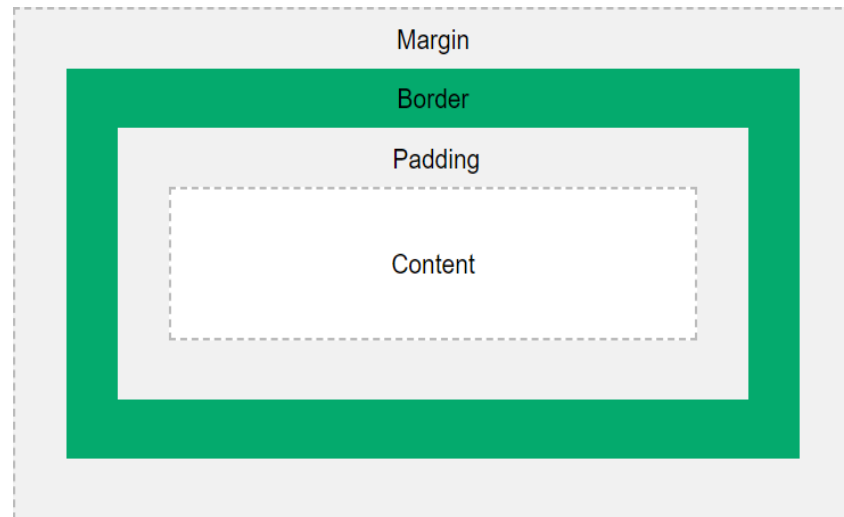
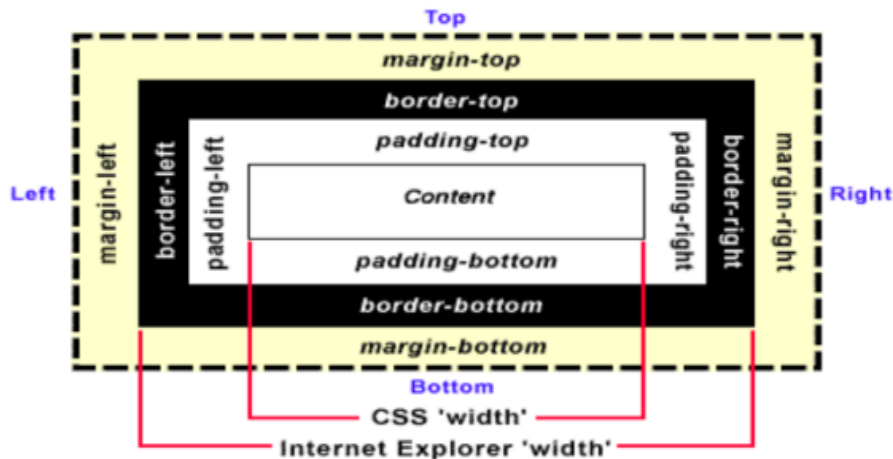


CSS Box Model

Explanation of the different parts:

- Content - The content of the box, where text and images appear
- Padding - Clears an area around the content. The padding is transparent
- Border - A border that goes around the padding and content
- Margin - Clears an area outside the border. The margin is transparent

• The CSS Box Model





CSS margins

- All the margin properties can have the following values:

- auto - the browser calculates the margin
- Length - specifies a margin in px, pt, cm, etc.
- % - specifies a margin in % of the width of the containing element.
- inherit - specifies that the margin should be inherited from the parent element.

HTML5 Is Dept

This div element has a top margin of 100px, a right margin of 150px, a bottom margin of 100px, and a left margin of 80px.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          div {
9              margin-top: 100px;
10             margin-left: 80px;
11             margin-right: 150px;
12             margin-bottom: 100px;
13             border: 1px solid black;
14             background-color: yellow;
15         }
16     </style>
17 </head>
18
19 <body>
20
21     <h2> HTML5 Is Dept </h2>
22
23     <div>
24         This div element has
25         a top margin of 100px,
26         a right margin of 150px,
27         a bottom margin of 100px,
28         and a left margin of 80px.
29     </div>
30 </body>
31 </html>
```

Ex40.html



| Margin - The Inherit Value

Use of the inherit value

Let the left margin be inherited from the parent element :

This paragraph has an inherited left margin (from the div element). This paragraph has an inherited left margin (from the div element).

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6
7    <style>
8      div {
9        margin-left: 100px;
10       border: 1px solid blue;
11     }
12
13     p.ex1 {
14       margin-left: inherit;
15     }
16   </style>
17 </head>
18
19 <body>
20
21   <h2> Use of the inherit value </h2>
22   <p> Let the left margin be inherited from the parent element: </p>
23
24   <div>
25     <p class="ex1">
26       This paragraph has an inherited left margin (from the div element).
27       This paragraph has an inherited left margin (from the div element).
28     </p>
29   </div>
30 </body>
31 </html>
```



CSS Fonts

- **Font Family:** The font family of a text is set with the `fontfamily` property.
- The `font-family` property should hold several font names as a “fallback” system. If the browser does not support the first font, it tries the next font, and so on.
- **Note:** If the name of a font family is more than one word, it must be in quotation marks, like: “Times New Roman”.
- More than one font family is specified in a commaseparated list:

Unordered List with Circle Bullets

- Tea
- Milk
- Coffee

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8
9          h2.serif {
10             font-family: "Times New Roman", Times, serif;
11         }
12
13         ul.sansserif {
14             font-family: Arial, Helvetica, sans-serif;
15         }
16     </style>
17 </head>
18
19 <body>
20
21     <h2 class="serif"> Unordered List with Circle Bullets </h2>
22
23     <ul style="list-style-type: lower-alpha;" class="sansserif">
24         <li> Tea </li>
25         <li> Milk </li>
26         <li> Coffee </li>
27     </ul>
28 </body>
29 </html>
```



| Show layout without float

```
<style>

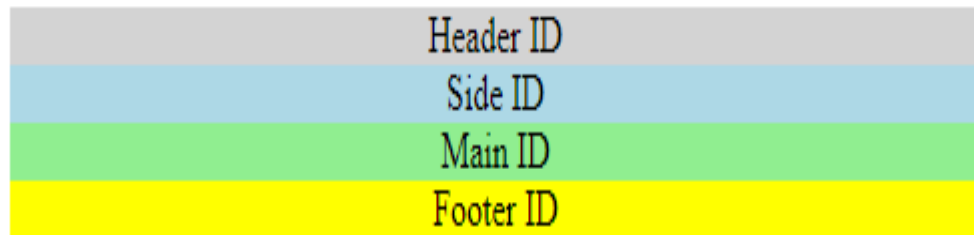
#side {
    text-align: center;
    background-color: lightblue;
}

#main {
    text-align: center;
    background-color: lightgreen;
}

#header {
    text-align: center;
    background-color: lightgray;
}

#footer {
    text-align: center;
    background-color: yellow;
}

</style>
```



```
<body>

    <div id="header"> Header ID </div>
    <div id="side"> Side ID </div>
    <div id="main"> Main ID </div>
    <div id="footer"> Footer ID </div>

</body>
```

Ex43.html



| Show layout with float

```
<style>

  #side {
    float:left;
    width: 100px;
    background-color: lightcyan;
  }

  #main {
    float:left;
    width: 100px;
    background-color: lightgray;
  }

  #header {
    float:left;
    width: 100px;
    background-color: lightblue;
  }

  #footer {
    float:left;
    width: 100px;
    background-color: lightgreen;
  }

</style>
```



```
<body>

  <div id="header"> Header ID </div>
  <div id="side"> Side ID </div>
  <div id="main"> Main ID </div>
  <div id="footer"> Footer ID </div>

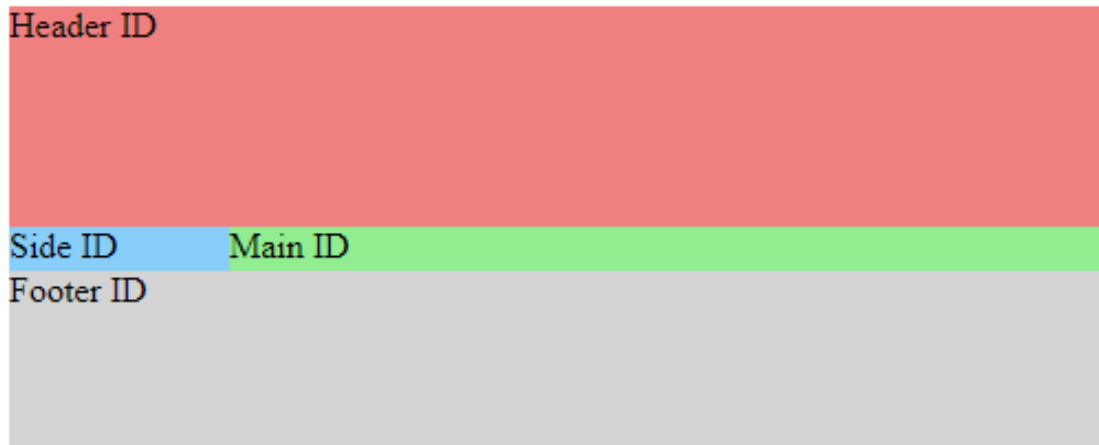
</body>
```

Ex44.html



| Exercise

- The following layout is in the middle of your browser.
- Below colors are your choices.



Ex45.html

Answer



```
<style>

  #side {
    float:left;
    width: 100px;
    height: 20px;
    background-color: lightskyblue;
  }

  #main {
    float:left;
    width: 400px;
    height: 20px;
    background-color: lightgreen;
  }

  #header {
    float:inherit;
    width: 500px;
    height: 100px;
    background-color: lightcoral;
  }

  #footer {
    float:inherit;
    width: 500px;
    height: 100px;
    background-color: lightgray;
  }

</style>
```

Header ID

Side ID

Main ID

Footer ID

```
<body>
```

```
<div id="header"> Header ID </div>
<div id="side"> Side ID </div>
<div id="main"> Main ID </div>
<div id="footer"> Footer ID </div>
```

```
</body>
```

Ex45.html



|Complex Landscape

My Family and I visited The Epcot center this summer.

Epcot Center

The Epcot is a theme park in Disney World, Florida.

Note : The aside tag is not supported in Internet Explorer 8 and earlier versions.

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5    <meta charset="utf-8">
6  </head>
7
8  <body>
9
10     <p> My Family and I visited The Epcot center this summer. </p>
11
12     <aside>
13
14         <h4> Epcot Center </h4>
15         <p> The Epcot is a theme park in Disney World, Florida. </p>
16     </aside>
17
18     <p>
19         <strong> Note: </strong>
20         The aside tag is not supported in Internet Explorer 8 and earlier versions.
21     </p>
22 </body>
23 </html>
```

Ex46.html



|Complex Landscape

WWF

The World wide Fund for Nature (WWF) is an international organization working research and restoration of the environment, formerly named the World Wildlife F

WWF's Panda symbol

The Panda has become the symbol of WWF. The well-known panda logo of WWF Chi that was transferred from the Beijing Zoo to the London Zoo in the same year

Note : The section tag is not suported in Internet Explorer 8 and earlier versions.

```
<section>
  <h1> WWF </h1>
  <p>
    The World wide Fund for Nature (WWF) is an international organization
    working on issues regaring the conservation, research and restoration
    of the environment, formerly named the World Wildlife Fund.
    WWF was founded in 1961.
  </p>
</section>

<section>
  <h1> WWF's Panda symbol </h1>
  <p>
    The Panda has become the symbol of WWF. The well-known panda logo
    of WWF originated from a panda named Chi Chi that was transferred
    from the Beijing Zoo to the London Zoo in the same year of the
    establishment of WWF.
  </p>
</section>

<p>
  <strong> Note: </strong>
  The section tag is not suported in Internet Explorer 8 and earlier versions.
</p>
```



|Complex Landscape

Web Browsers

Google Chrome, Firefox, and Internet Explorer are the most used browser today.

Google Chrome

Google Chrome is a free, open-source web browser developed by Google, released in 2008.

Internet Explorer

Internet Explorer is a free web browser from Microsoft, released in 1995.

Mozilla Firefox

Firefox is a free, open-source web browser from Mozilla, released in 2004.

Note : The main tag is not supported in Internet Explorer 11 and earlier versions.

```
<main>

  <h1> Web Browsers </h1>
  <p>
    Google Chrome, Firefox, and Internet Explorer are the most used browser today.
  </p>

  <article>
    <h1> Google Chrome </h1>
    <p>
      Google Chrome is a free, open-source web browser developed by Google,
      released in 2008.
    </p>
  </article>

  <article>
    <h1> Internet Explorer </h1>
    <p>
      Internet Explorer is a free web browser from Microsoft,
      released in 1995.
    </p>
  </article>

  <article>
    <h1> Mozilla Firefox </h1>
    <p>
      Firefox is a free, open-source web browser from Mozilla,
      released in 2004.
    </p>
  </article>

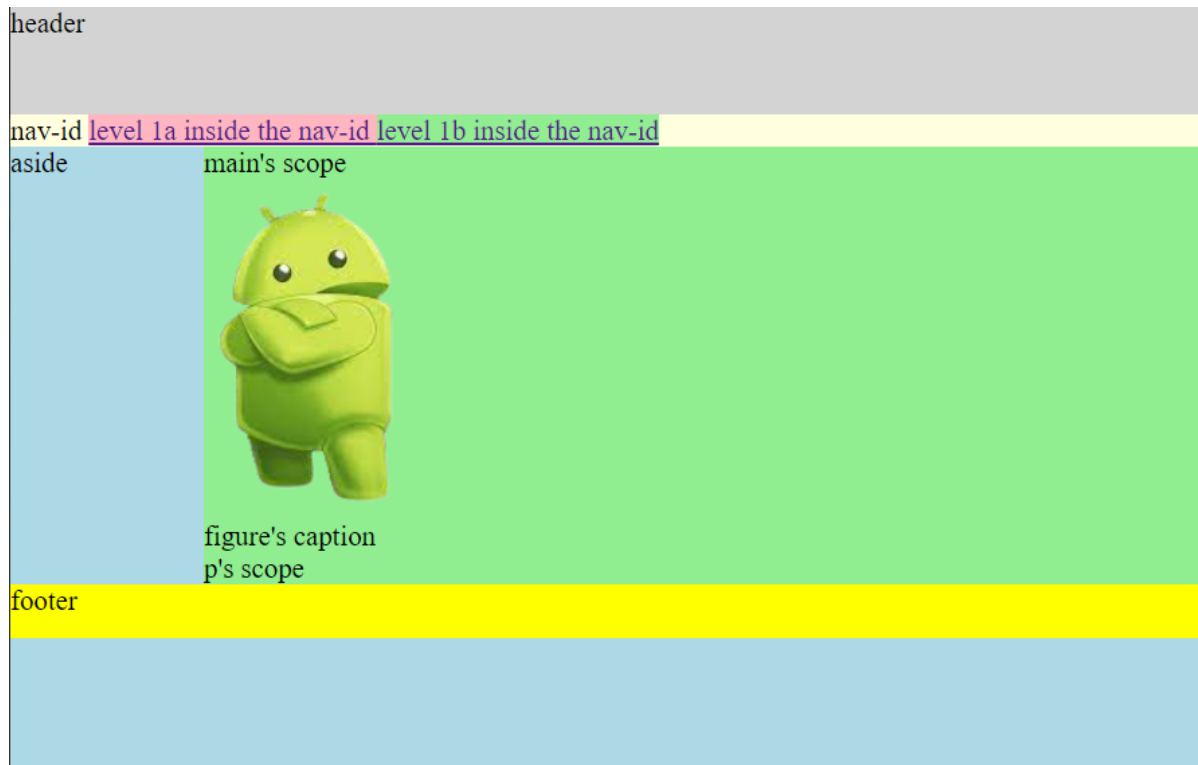
</main>
```

Ex48.html



|Complex Landscape

- Exercise





Complex Landscape

• Answer

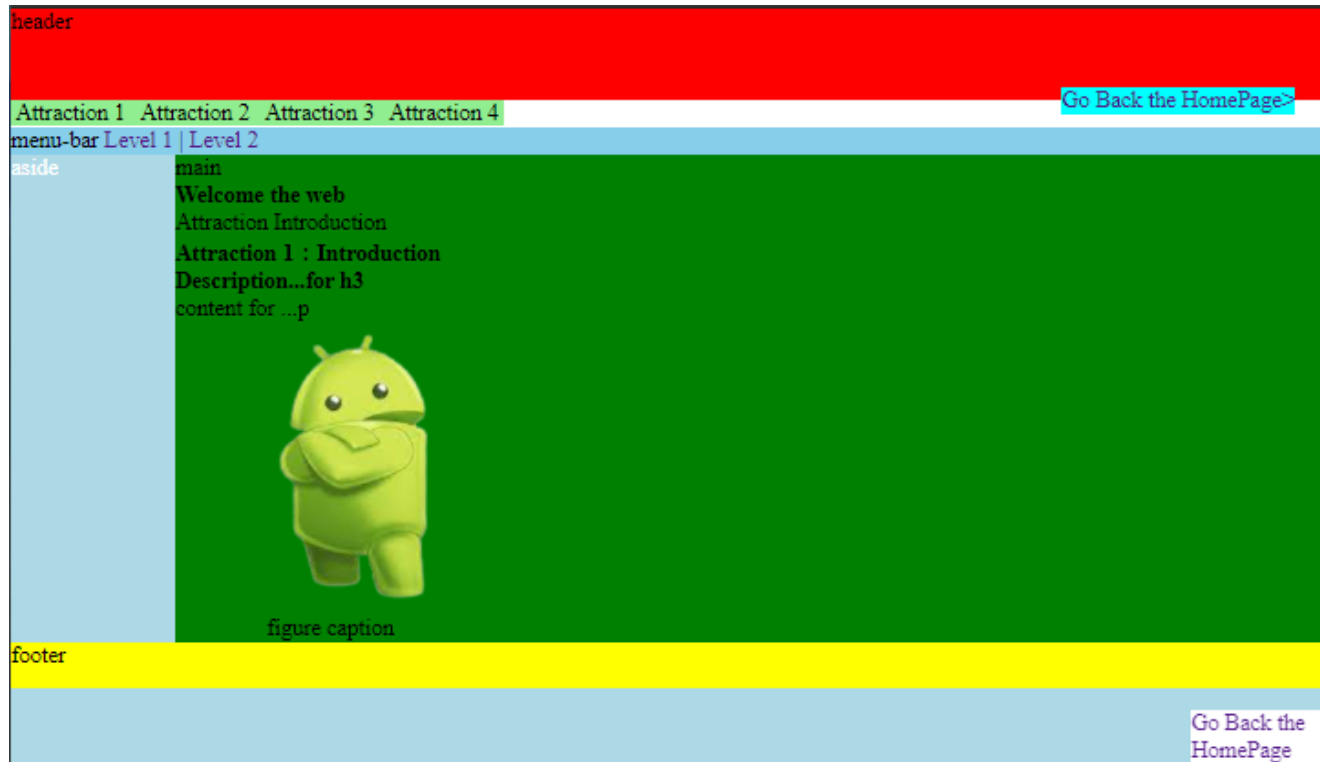
```
* {  
  margin: 0;  
  font-size: 26px;  
}  
  
#wrapper {  
  float: left;  
  width: 100%;  
}  
  
img {  
  width: 200px;  
}  
  
#aside {  
  float: left;  
  width: 180px;  
  margin-left: -100%;  
}  
  
#footer {  
  clear: both;  
  height: 50px;  
  background-color: yellow;  
}
```

```
body {  
  background-color: lightblue;  
}  
  
#header {  
  height: 100px;  
  background-color: lightgray;  
}  
  
nav {  
  background-color: lightyellow;  
}  
  
main {  
  margin-left: 180px;  
  background-color: lightgreen;  
}
```

```
<body>  
  
  <header id="header"> header </header>  
  
  <nav id="nav"> nav-id  
    <a href="#" style="background-color: lightpink;"> level 1a inside the nav-id </a>  
    <a href="#" style="background-color: lightgreen;"> level 1b inside the nav-id </a>  
  </nav>  
  
  <div id="wrapper">  
    <main> main's scope  
      <section>  
        <figure>  
            
          <figcaption> figure's caption </figcaption>  
        </figure>  
      </section>  
      <p> p's scope </p>  
    </main>  
  </div>  
  
  <aside id="aside"> aside </aside>  
  <footer id="footer"> footer </footer>  
</body>
```



|Complex Landscape



Complex Landscape



➤ Ex50.html

```
* {
  font-size: 25px;
  margin:0;
}

body {
  background-color: lightblue;
}

a {
  text-decoration: none;
}

img {
  width:200px;
}

#header {
  height: 100px;
  background-color: red;
  position:relative;
}
```

```
#footer {
  clear:both;
  height: 50px;
  background-color: yellow;
}

#gohome {
  position:absolute;
  background-color: aqua;
  right:30px;
  bottom:-16px;
}

figure {
  position: relative;
  left:100px;
}

#fixed {
  position: fixed;
  bottom:0;
  left:90%;
  background-color: white;
}
```

```
#nav {
  background-color: skyblue;
}

#wrapper {
  float:left;
  width:100%;
}

main {
  margin-left: 180px;
  background-color: green;
}

#aside {
  float:left;
  width:180px;
  margin-left:-100%;
  background-color: lightblue;
  color: white;
}
```

```
#menu {
  background-color: white;
}

#menu ul {
  padding: 0;
}

#menu li {
  background-color: lightgreen;
  list-style-type: none;
  display: inline;
  font-size: 24px;
  padding: 0px 5px;
}

#menu li a {
  color: black;
  text-decoration-line: none;
}

#menu li a:hover {
  background-color: lightblue;
  color: brown;
}
```



|Complex Landscape

➤ Ex50.html

```
<header id="header"> header
  <div id="gohome">
    <a href="#"> Go Back the HomePage </a>
  </div>
</header>

<div id="menu">
  <ul>
    <li><a href="#"> Attraction 1 </a></li>
    <li><a href="#"> Attraction 2 </a></li>
    <li><a href="#"> Attraction 3 </a></li>
    <li><a href="#"> Attraction 4 </a></li>
  </ul>
</div>

<nav id="nav"> menu-bar
  <a href="#"> Level 1 </a> | <a href="#"> Level 2</a>
</nav>
```

```
<div id="wrapper">
  <main> main
    <h1> Welcome the web </h1>
    <p> Attraction Introduction </p>

    <section>
      <h2> Attraction 1: Introduction </h2>

      <article>
        <h3> Description...for h3 </h3>
        <p> content for ...p </p>

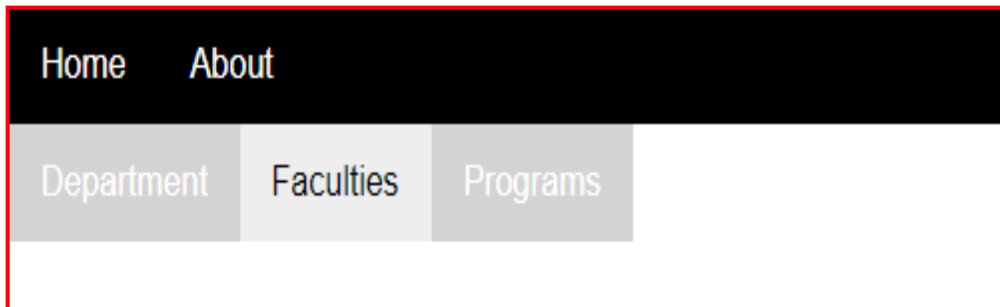
        <figure>
          
          <figcaption> figure caption </figcaption>
        </figure>
      </article>
    </section>
  </main>
</div>

<aside id="aside"> aside </aside>
<div id="fixed"><a href="#header"> Go Back the HomePage </a></div>
<footer id="footer"> footer </footer>
```



Example

• Exercise



• Answer

```
* {  
  margin: 0;  
  font-size: 16px;  
  font-family: Arial, Helvetica, sans-serif;  
}  
  
.navbar {  
  background-color: black;  
}  
  
.navbar a {  
  float: left;  
  color: white;  
  padding: 14px 16px;  
  text-decoration: none;  
}
```

Ex51.html

Example



- Answer

```
.subnav-btn {  
  margin: 0;  
  color: white;  
  border: none;  
  outline: none;  
  padding: 14px 16px;  
  background-color: black;  
}  
  
.subnav-content {  
  color: white;  
  display: none;  
  position: absolute;  
  background-color: lightgrey;  
}  
  
.subnav:hover .subnav-content {  
  display: block;  
}  
  
.subnav-content a:hover {  
  color: black;  
  background-color: #eee;  
}
```

```
<body>  
  <div class="navbar">  
    <a href="#home"> Home </a>  
  
    <div class="subnav">  
  
      <button class="subnav-btn"> About </button>  
  
      <div class="subnav-content">  
        <a href="#Department"> Department </a>  
        <a href="#Faculties"> Faculties </a>  
        <a href="#Programs"> Programs </a>  
      </div>  
    </div>  
  </div>  
</body>
```

Ex51.html



| Box-shadow effect

- The box-shadow CSS property adds shadow effects around an element's frame

The Box-shadow Property

This is div element with a Box-shadow

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          div {
9              width: 300px;
10             height: 100px;
11             padding: 15px;
12             box-shadow: 30px 10px;
13             background-color: yellow;
14         }
15     </style>
16 </head>
17
18 <body>
19
20     <h1> The Box-shadow Property </h1>
21     <div> This is div element with a Box-shadow </div>
22 </body>
23 </html>
```

Ex52.html



| Box-shadow effect

- The box-shadow CSS property adds shadow effects around an element's frame

The Box-shadow Property

This is div element with a Box-shadow

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          div {
9              width: 300px;
10             height: 100px;
11             padding: 15px;
12             box-shadow: 70px 10px;
13             background-color: yellow;
14         }
15     </style>
16 </head>
17
18 <body>
19
20     <h1> The Box-shadow Property </h1>
21     <div> This is div element with a Box-shadow </div>
22 </body>
23 </html>
```

Ex53.html



| Box-shadow effect

- The box-shadow CSS property adds shadow effects around an element's frame

The Box-shadow Property

This is div element with a Box-shadow

```
1  <!DOCTYPE HTML>
2
3  ▼ <html>
4  ▼   <head>
5       <meta charset="utf-8">
6
7  ▼   <style>
8  ▼       div {
9           width: 300px;
10          height: 100px;
11          padding: 15px;
12          box-shadow: 70px 30px;
13          background-color: yellow;
14       }
15   </style>
16 </head>
17
18 ▼ <body>
19
20     <h1> The Box-shadow Property </h1>
21     <div> This is div element with a Box-shadow </div>
22 </body>
23 </html>
```

Ex54.html



| Box-shadow effect

- The box-shadow CSS property adds shadow effects around an element's frame

The Box-shadow Property

This is div element with a Box-shadow

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          div {
9              width: 300px;
10             height: 100px;
11             padding: 15px;
12             background-color: yellow;
13             box-shadow: 10px 10px grey;
14         }
15     </style>
16 </head>
17
18 <body>
19
20     <h1> The Box-shadow Property </h1>
21     <div> This is div element with a Box-shadow </div>
22 </body>
23 </html>
```

Ex55.html



| Box-shadow effect

- The box-shadow CSS property adds shadow effects around an element's frame

The Box-shadow Property

This is div element with a Box-shadow

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          div {
9              width: 300px;
10             height: 100px;
11             padding: 15px;
12             background-color: yellow;
13             box-shadow: 10px 10px 5px grey;
14         }
15     </style>
16 </head>
17
18 <body>
19
20     <h1> The Box-shadow Property </h1>
21     <div> This is div element with a Box-shadow </div>
22 </body>
23 </html>
```

Ex56.html



| Box-shadow effect

- The box-shadow CSS property adds shadow effects around an element's frame

The Box-shadow Property

This is div element with a Box-shadow

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8          div {
9              width: 300px;
10             height: 100px;
11             padding: 15px;
12             background-color: yellow;
13             box-shadow: 10px 10px 10px grey;
14         }
15     </style>
16 </head>
17
18 <body>
19
20     <h1> The Box-shadow Property </h1>
21     <div> This is div element with a Box-shadow </div>
22 </body>
23 </html>
```

Ex57.html

| Border Effect



Border-Radius : 180px;



Border-Radius : 20px 40px;



Border-Radius : 20px 40px 60px;

```
<style>

  p {
    text-indent: 150px;
  }

  img {
    width: 10%;
    margin: 30px 0 0 120px;
    box-shadow: 0 6px 12px green;
  }

  .img1 {
    border-radius: 180px;
  }

  .img2 {
    border-radius: 20px 40px;
  }

  .img3 {
    border-radius: 20px 40px 60px;
  }

</style>
```

<body>

Ex58.html

```

<p> Border-Radius : 180px; </p>
```

```

<p> Border-Radius : 20px 40px; </p>
```

```

<p> Border-Radius : 20px 40px 60px; </p>
```

</body>



Transform: translate

Ex59.html

```
1  <!DOCTYPE HTML>
2
3  <html>
4  <head>
5      <meta charset="utf-8">
6
7      <style>
8
9          div {
10             width: 250px;
11             height: 100px;
12             margin: 100px 0;
13             border: 1px blue dashed;
14             background-color: lightgray;
15         }
16
17         #trans1 {
18             -ms-transform: translate(25px, 50px);
19             -webkit-transform: translate(25px, 50px);
20             transform: translate(25px, 50px);
21         }
22     </style>
23 </head>
24
25 <body>
26
27     <div> No Move </div>
28
29     <div id="trans1"> transform: translate(25px, 50px) Rectangle is moved </div>
30 </body>
31 </html>
```

No Move

transform: translate(25px, 50px)
Rectangle is moved



Exercise

```
<style>
```

Ex60.html

```
  button {
    margin: 5px;
    color: black;
    font-size: 50px;
    transition: 0.5s;
    padding: 10px 20px;
    border-radius: 10px;
    background-color: white;
    -webkit-transition: 0.5s;
    border: 2px orange solid;
  }

  .button1:hover{
    color: blue;
    cursor: pointer;
    background-color: darkorange;
  }

  .button2:hover {
    color: blue;
    cursor: progress;
    background-color: darkorange;
  }
</style>
```

CSS

HTML5

CSS

HTML5

CSS

HTML5

```
<body>
```

```
  <button class="button1"> CSS </button>
  <button class="button2"> HTML5 </button>
</body>
```

| Card Flip



Card Flip With Text

Hover Over The Image Below:



John Doe

Architect & Engineer

We Love That Guy

Card Flip With Text

Hover Over The Image Below:



John Doe

Architect & Engineer

We Love That Guy

```
body {  
    font-family: Arial, Helvetica, sans-serif;  
}  
  
.flip-card {  
    width: 300px;  
    height: 300px;  
    perspective: 1000px;  
    background-color: transparent;  
}  
  
.flip-card-inner {  
    width: 100%;  
    height: 100%;  
    text-align: center;  
    position: relative;  
    transition: transform 0.6s;  
    transform-style: preserve-3d;  
    box-shadow: 0 4px 8px 0 rgba(0,0,0,0.2);  
}  
  
.flip-card:hover .flip-card-inner {  
    transform: rotateY(180deg);  
}
```

Ex61.html

| Card Flip



```
.flip-card-front .flip-card-back {  
  width: 100%;  
  height: 100%;  
  position: absolute;  
  backface-visibility: hidden;  
}  
  
.flip-card-front {  
  color: black;  
  background-color: #bbb;  
}  
  
.flip-card-back {  
  color: white;  
  background-color: #2980b9;  
  transform: rotateY(180deg);  
}
```

```
<body>  
  
  <h1> Card Flip With Text </h1>  
  <h3> Hover Over The Image Below: </h3>  
  
  <div class="flip-card">  
    <div class="flip-card-inner">  
      <div class="flip-card-front">  
          
      </div>  
  
      <div class="flip-card-back">  
        <h1> John Doe </h1>  
        <p> Architect & Engineer </p>  
        <p> We Love That Guy </p>  
      </div>  
    </div>  
  </div>  
  
</body>
```

Ex61.html



Fade in Overlay

Fade in Overlay

Hover over the image to see the effect.



Fade in Overlay

Hover over the image to see the effect.

I am a
little
monk!

Ex62.html

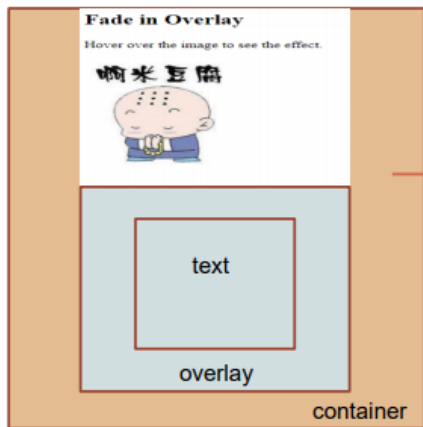
```
.image {  
  width: 30%;  
  height: auto;  
  display: block;  
}  
  
.container {  
  width: 30%;  
  position: relative;  
}  
  
.overlay {  
  top: 0;  
  left: 0;  
  right: 0;  
  bottom: 0;  
  width: 30%;  
  opacity: 0;  
  position: absolute;  
  transition: .5s ease;  
  background-color: #008CBA;  
}
```

```
.container:hover .overlay {  
  opacity: 1;  
}  
  
.text {  
  top: 50%;  
  left: 50%;  
  color: white;  
  font-size: 20px;  
  position: absolute;  
  text-align: center;  
  transform: translate(-50%, -50%);  
  -ms-transform: translate(-50%, -50%);  
  -webkit-transform: translate(-50%, -50%);  
}
```




Fade in Overlay

Fade in Overlay



Fade in Overlay

Hover over the image to see the effect.



```
<body>
```

```
  <h2> Fade in Overlay </h2>
```

```
  <p> Hover over the image to see the effect. </p>
```

```
  <div class="container">
```

```
    
```

```
    <div class="overlay">
```

```
      <div class="text"> I am a little monk! </div>
```

```
    </div>
```

```
  </div>
```

```
</body>
```

Ex62.html



Exercise

Name	Phone Number
David Wong	1234-59789
Mark Lin	4321-98765

Name	Phone Number
David Wong	1234-59789
Mark Lin	4321-98765

Name	Phone Number
David Wong	1234-59789
Mark Lin	4321-98765

```
<style>

  * {
    font-size: 30px;
    margin-top: 100px;
    margin-left: 100px;
  }

  table {
    border: 3px blue solid;
    border-collapse: collapse;
  }

  th {
    background-color: lightcyan;
  }

  td, th {
    padding: 5px;
    border: 2px red dashed;
  }

  tr:hover {
    background-color: lightgreen;
  }

</style>
```

```
<table>
  <tr>
    <th> Name </th>
    <th> Phone Number </th>
  </tr>

  <tr>
    <td> David Wong </td>
    <td> 1234-59789 </td>
  </tr>

  <tr>
    <td> Mark Lin </td>
    <td> 4321-98765 </td>
  </tr>
</table>
```

Ex63.html



Exercise

```
<style>

  th {
    text-align:center;
  }

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

Basic HTML Table

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

```
<h2 style="text-align: center">Basic HTML Table</h2>

<table style="width:100%;color:brown;font:20px;">
  <tr style="color: black;font:30px;">

    <th colspan="2" style="background-color:lightgreen"> Lastname/ age </th>
    <th>Firstname</th>
  </tr>
  <tr>
    <td rowspan="2" style="background-color:yellow" >Jill</td>
    <td>Smith</td>
    <td>50</td>
  </tr>
  <tr>
    <td>Jackson</td>
    <td>94</td>
  </tr>
  <tr>
    <td>John</td>
    <td>Doe</td>
    <td>80</td>
  </tr>
</table>
```

Ex64.html

Exercise



```
<body>

  <center>
    <form action="/action_page.php" style="font-size: 30px;">
      First Name: <br>
      <input type="text" name="fname"><br>

      Middle Name: <br>
      <input type="text" value= "John" name="mname" style="background-color:red;"><br>

      Last Name: <br>
      <input type="text" name="lname"><br><br>

      <input type="radio" name="age" checked> 20-29 years old <br>
      <input type="radio" name="age" > 30-39 years old <br>
      <input type="image" src="Button.png" width="100px;" height="100px;" >

    </form>
  </center>
</body>
```

Ex65.html

First Name:

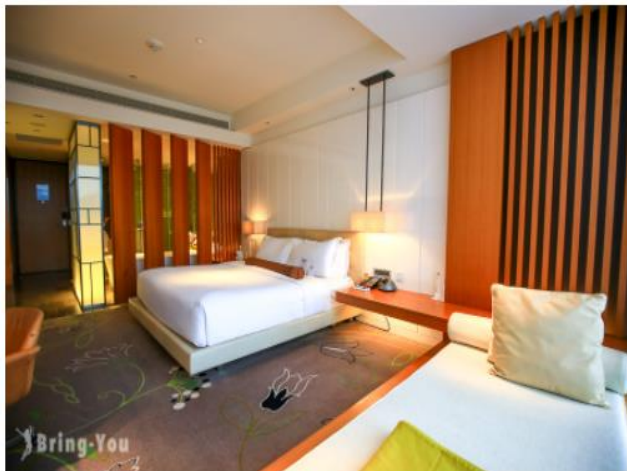
Middle Name:

Last Name:

- ☒ 20-29 years old
- ☐ 30-39 years old

NEXT

Exercise



Room1
\$6500

Room2
\$9000

Room3
\$9500

Room4
\$4500

```
1  <!DOCTYPE html>
2  <html>
3  <head>
4    <meta charset="utf-8">
5  </head>
6
7  <body style="text-align:center;font-size:30px">
8
9    
10
11   <table style="width:100%;color:red;">
12     <tr style="color: black;font-size:30px">
13       <th>Room1</th>
14       <th>Room2</th>
15       <th>Room3</th>
16       <th>Room4</th>
17     </tr>
18
19     <tr>
20       <td style="text-align:center;font-size:30px;">$6500 </td>
21       <td style="text-align:center;font-size:30px;">$9000 </td>
22       <td style="text-align:center;font-size:30px;">$9500 </td>
23       <td style="text-align:center;font-size:30px;">$4500 </td>
24     </tr>
25   </table>
26 </body>
27 </html>
```

Ex66.html



The End