



前端網絡開發人員證書

(一) 前端網絡開發

6. CSS : Advanced I

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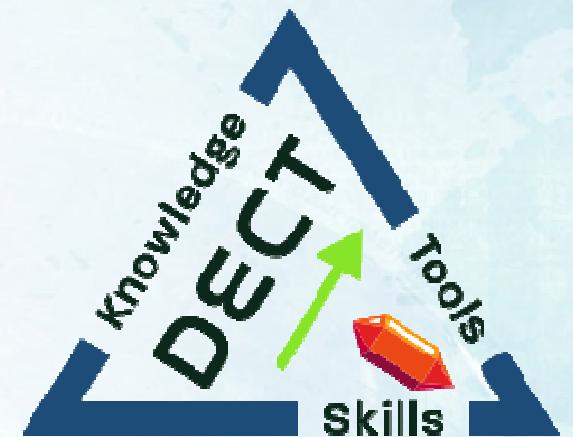


Learning outcomes

- In this lesson, you are going to learn:
 - ✓ Table properties properties
 - ✓ Overflow
 - ✓ alignment



6.1 Table properties



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6.1 Table properties



There are different properties of Table can be specify:

- Border
- Size
- Alignment
- style

6.1 Table properties(**border**)



- The border properties is the same as the border properties of DIV
- You may specify different border for the cells

6.1 Table properties(**border**)

example_ original



```
<body>
<table>
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
  </tr>
  <tr>
    <td>Peter</td>
    <td>Chan</td>
  </tr>
  <tr>
    <td>Mary</td>
    <td>Law</td>
  </tr>
</table>

</body>
```

Firstname	Lastname
Peter	Chan
Mary	Law

```

<head>
  <style>
    body{
      background-color:lightblue;
    }
  </style>
</head>
<body>
  <table>
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
    </tr>
    <tr>
      <td>Peter</td>
      <td>Chan</td>
    </tr>
    <tr>
      <td>Mary</td>
      <td>Law</td>
    </tr>
  </table>
</body>

```

If the properties of the Table did not specifies, the default setting will be no border

6.1 Table properties(**border**) example



```
<style>
  body{
    background-color:lightblue;
  }

  th{
    border:2px solid red;
  }
  td {
    border: 1px solid black;
  }

  table{
    width:300px;
  }

</style>
```

CSS_table border

← → C 檔案 | D:/Krystal%20institute/CSS/sublime%:

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Firstname	Lastname
Peter	Chan
Mary	Law

300px

6.1 Table properties(**border**) example



```
<style>
  body{
    background-color:lightblue;
  }

  table{
    border:1px double green;
  }

  table{
    width:300px;
  }

</style>
```

Firstname	Lastname
Peter	Chan
Mary	Law

If you want a border around the Table only, you may specify the element: Table

6.1 Table properties(**border**) addition



```

<style>
  body{
    background-color:lightblue;
  }
  th,td{
    border: 1px solid black;
  }
  table{
    width:300px;
    border: 2px solid red;
  }
</style>

```

Firstname	Lastname
Peter	Chan
Mary	Law

However, be aware of the borders when you assign different cells with borders.

6.1 Table properties(**border**) addition



```
<style>
  body{
    background-color:lightblue;
  }

  th,td{
    border: 1px solid black;
  }

  table{
    width:300px;
    border: 2px solid red;
  }

</style>
```

Firstname	Lastname
Peter	Chan
Mary	Law



6.1 Table properties(**border**) addition(*border-collapse*)



```
<style>
  body{
    background-color:lightblue;
  }

  th,td{
    border: 1px solid black;
  }

  table{
    width:300px;
    border: 2px solid red;
    border-collapse:collapse;
  }
}
```

Firstname	Lastname
Peter	Chan
Mary	Law

To solve the problem, we can use
“border-collapse:collapse”(Table)

6.1 Table properties(**size**)



- We can define the height and width of the Table
- Also we can specify the height of different cells

6.1 Table properties(**size**)

example_height(th/td :50px)

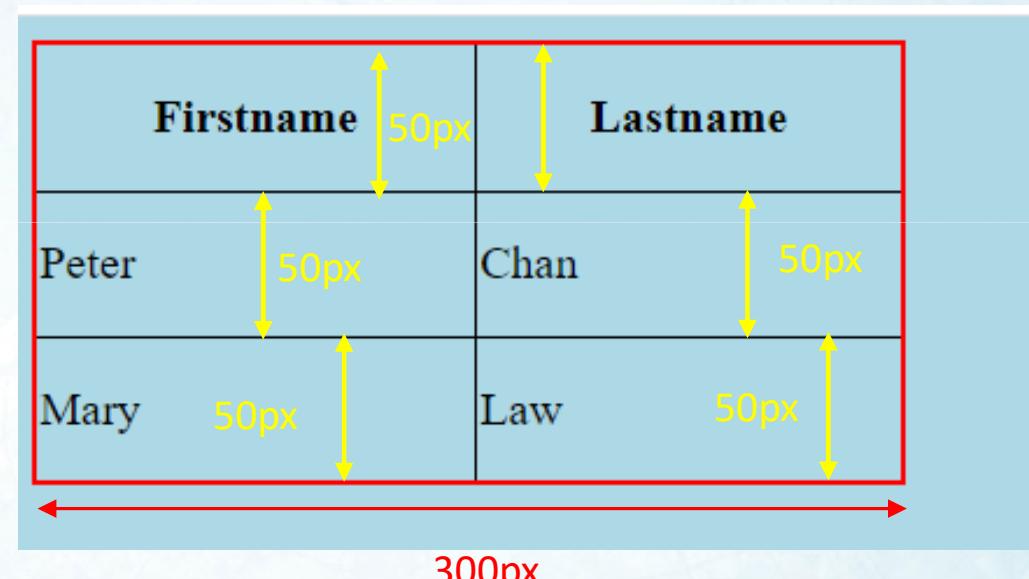


```
<style>
  body{
    background-color:lightblue;
  }

  th,td{
    border: 1px solid black;
    height:50px;
  }

  table{
    width:300px;
    border: 2px solid red;
    border-collapse:collapse;
  }

</style>
```



6.1 Table properties(size)

example_width(*Table:50%*)



```
<style>
body{
    background-color:lightblue;
}

th,td{
    border: 1px solid black;
    height:50px;
}

table{
    width:50%;
    border: 2px solid red;
    border-collapse:collapse;
}

</style>
```

Firstname	Lastname
Peter	Chan
Mary	Law

50% of the window size

6.1 Table properties(**size**)

example_width(*table:50%*)



You may resize the window to see the difference

CSS_table border

← → C 檔案 | D:/Krystal%20institute/CSS/sublime%20example/Lecture%206/CSS_Table%20border.html

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Firstname	Lastname
Peter	Chan
Mary	Law

50% of the window size

Bigger window size

CSS_table border

← → C 檔案 | D:/Krystal%20institute/CSS/... 閱讀清單

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Firstname	Lastname
Peter	Chan
Mary	Law

50% of the window size

smaller window size

6.1 Table properties(alignment)



- We can specify the alignment of the cells
 - horizontal alignment
 - Vertical alignment

6.1 Table properties(alignment) example_ original



```

<style>
  body{
    background-color:lightblue;
  }

  th{
    border: 1px solid black;
    height:50px;
  }

  td{
    border: 1px solid black;
    height:50px;
  }

  table{
    width:300px;
    border: 2px solid red;
    border-collapse:collapse;
  }

</style>

```

Firstname	Lastname
Peter	Chan
Mary	Law

If the alignment properties is not defined , the default setting will contain a left alignment for **TD** while center alignment for **TH**.

6.1 Table properties(alignment)

example_ horizontal alignment



```

body{
  background-color:lightblue;
}

th{
  border: 1px solid black;
  height:50px;
  text-align:center;
}

td{
  border: 1px solid black;
  height:50px;
  text-align: right;
}

table{
  width:300px;
  border: 2px solid red;
  border-collapse:collapse;
}

```

Firstname	Lastname
Peter	Chan
Mary	Law

We can specify the text alignment to be right

6.1 Table properties(alignment)

example_ *vertical alignment*



```

th{
    border: 1px solid black;
    height:50px;
    text-align:center;
    vertical-align: top;
}

td{
    border: 1px solid black;
    height:50px;
    vertical-align: bottom;
}

table{
    width:300px;
    border: 2px solid red;
    border-collapse:collapse;
}
  
```

<u>Firstname</u>	<u>Lastname</u>
Peter	Chan
Mary	Law

We can also specify the vertical alignment of cells

6.1 Table properties(style)



- We can specify the padding of the cells to look better
- We can also define the background color of different cells

6.1 Table properties(style) example_ padding

```
<style>
  body{
    background-color:lightblue;
  }

  th,td{
    border: 1px solid black;
    height:50px;
    padding:20px;
  }

  table{
    width:300px;
    border: 2px solid red;
    border-collapse:collapse;
  }

</style>
```

Original

Firstname	Lastname
Peter	Chan
Mary	Law

New

Firstname	Lastname
Peter	Chan
Mary	Law

6.1 Table properties(style)

example_ *Table design*



```
<style>
  body{
    background-color:lightblue;
  }

  th,td{
    border-bottom:1px dotted blue;
    height:50px;
    padding:20px;
  }

  table{
    width:300px;
  }

</style>
```

Firstname	Lastname
Peter	Chan
Mary	Law

We can design a simper format of the table which make it looks clearer

6.1 Table properties(style)

example_color



```

table{
  width:300px;
  border-collapse:collapse;
}

th,td{
  height:50px;
  padding:10px;
}

th{
  background-color:orange;
  color:red;
}

td{
  border-bottom:1px solid blue;
}

```

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

We can specify color of the text or background color of cells

6.1 Table properties(style) example_color(even)



```
table{
  width:300px;
  border-collapse:collapse;
}

th,td{
  height:50px;
  padding:10px;
}

th{
  background-color:orange;
  color:red;
}

td{
  border-bottom:1px solid blue;
}
```

`tr:nth-child(even){background-color: lightgreen}`

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Also we can specify the background color of cells for specific rows

6.1 Table properties(style)

example_color(odd)



```

table{
  width:300px;
  border-collapse:collapse;
}

th,td{
  height:50px;
  padding:10px;
}

th{
  background-color:orange;
  color:red;
}

td{
  border-bottom:1px solid blue;
}

```

`tr:nth-child(odd){background-color: lightgreen}`

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Actually, the header should have the same style(background-color: lightgreen), but we set its background color to be orange, so it does not show.

6.1 Table properties(style) addition_ hoverable Table



```
table{
  width:300px;
  border-collapse:collapse;
}

th,td{
  height:50px;
  padding:10px;
}
```

```
th{
  background-color:orange;
  color:red;
}

td{
  border-bottom:1px solid blue;
}
```

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

tr:nth-child(odd){background-color: lightgreen}
 tr:hover{background-color: red; color:white;}

Same as lecture 5,
 we can design an
 active style for
 the columns,
 once your mouse
 pass over it, it
 will have
 different effect

6.1 Table properties(style) addition_ hoverable Table



```

<style>
  body{
    background-color:lightblue;
  }

  table{
    width:300px;
    border-collapse:collapse;
  }

  th,td{
    height:50px;
    padding:10px;
  }

  tr:nth-child(odd){background-color: lightgreen}
  tr:hover{background-color: red; color:white;}

  th{
    background-color:orange;
    color:red;
  }

  td{
    border-bottom:1px solid blue;
  }

</style>

```

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

if the cells of the table contain a background color, this effect is not workable

6.1 Table properties(summary)



Syntax of different parts:

	Border	size	alignment	style
Table	Border-collapse: collapse;	Height: value; Width: value;	Text-align: left/center/right; Vertical align: Top/center/bottom;	1. Padding: value; 2. background-color: value; 3. color: value; 4. tr:nth-child (even/odd) {background: value;} 5. Tr:hover{background-color: value;}
Content(td)	Same with border properties	Height: value;		
Header(th)		Border-bottom: value;		



• 6.2 Overflow

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6.2 Overflow



- Sometimes, when there are too many information to be display, it may be bigger than the section assigned
- We can specify the way that how to handle with the overflow content
- Of course, this problem can be solve by extend its size/ reduce the content . However, for some of the complex designs, every modification may affect the result which is not encouraged.

6.2 Overflow

example_ original



```
<html>
<head>
<title>CSS_overflow</title>
</head>

<style>
body{
    background-color:lightblue;
}

div{
    width:300px;
    height:50px;
    background-color:lightgreen;
}

</style>
```

Good morning, everone! I am Mary. I am studing in the University. How is your learning process?

Would like to introduce yourself?

In the example, a DIV is created with a **height of 50px**, which my **content** can not fix in the size.

6.2 Overflow example_ visible



```
<style>
  body{
    background-color:lightblue;
  }

  div{
    width:300px;
    height:50px;
    background-color:lightgreen;
    overflow:visible;
  }
</style>
```

Good morning, everone! I am Mary. I am studing in the University. How is your learning process?

Would like to introduce yourself?

We can choose to be display the overflow content outside the DIV

6.2 Overflow example_hidden



```
<style>
body{
    background-color:lightblue;
}

div{
    width:300px;
    height:50px;
    background-color:lightgreen;
    overflow:hidden;
}

</style>
```

Good morning, everone! I am Mary. I am studing in the University. How is your

In order not to over the DIV,
we can choose to hide it

6.2 Overflow example_ scroll



```
<style>
body{
    background-color:lightblue;
}

div{
    width:300px;
    height:70px;
    background-color:lightgreen;
    overflow:scroll;
}

</style>
```

Two green rectangular boxes with scroll bars. The top box contains the text: "Good morning, everone! I am Mary. I am studing in the University. How is your". The bottom box contains the text: "Would like to introduce yourself?".

Also, we can choose to create a scroll bar to display the overflow content

6.2 Overflow example_ *auto*

```
<style>
  body{
    background-color:lightblue;
  }

  div{
    width:300px;
    height:70px;
    background-color:lightgreen;
    overflow:auto;
  }

</style>
```



Good morning, everone! I am Mary. I am studing in the University. How is your learning process?

It is similar to “scroll”, but the scroll bar will appear when necessary

6.2 Overflow example_ *auto* & *scroll*

As shown, for “scroll”, even the width of the DIV is enough to display the content, still the horizontal scroll bar appears while it will not happen for “auto”.



Good morning, everone! I am Mary. I am studing in the University. How is your learning process?

Good morning, everone! I am Mary. I am studing in the University. How is your



• 6.3 Alignment

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6.3 Alignment



In CSS, we can use different properties to align elements:

- ✓ Align a DIV with “margin”
- ✓ Align an image with “margin”
- ✓ Align text with “text-align: center”
- Moreover, we can use “float” & “position”.

6.3 Alignment(float) example

```
<style>
body{
    background-color:lightblue;
}

div{
    width:300px;
    height:200px;
    background-color:lightgreen;
    float: right;
}

</style>
```



Good morning, everone! I am Mary. I am studing in the University. How is your learning process?

Would like to introduce yourself?



Any questions?



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Quiz time



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Quiz

Question 1



1. What is the correct coding to show the same result?

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Table properties{

- ① Border: red dotted 2px;
- ② Border: red solid 2px;
- ③ Border-collapse:collapse
- }
- ① tr:nth-child(odd){background-color: lightgreen}
- ② tr:nth-child(even){background-color: lightgreen}

Quiz

Question 1_Answer



1. What is the correct coding to show?

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Table{

- ② Border: red solid 2px;
 - ③ Border-collapse: collapse
- }
- ① tr:nth-child(odd){background-color: lightgreen}

Quiz

Question 2

2. What is the correct coding to show the result?

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

```
Td{  
    }  
① Vertical-align: bottom;  
② Vertical-align: center;  
③ Text-align: center;  
④ Text-align: top;
```

Quiz

Question 2_ Answer



2. What is the correct coding to show the result?

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Td{

- ① Vertical-align: bottom;
 - ③ Text-align: center;
- }

Quiz

Question 3



3. How to create the result? Please write down the correct code.(Hint: hover)

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Firstname	Lastname
Peter	Chan
Mary	Law
John	Hui
Michael	Fung

Quiz

Question 3_ Answer



3. How to create the result?(Hint: hover)

Code:

```
tr:hover{background-color: red; color: white;}
```

Quiz Question 4



4. How many type of properties can be specified when content overflow and what are the names of them?

Answer : 4

- ✓ Auto
- ✓ Scroll
- ✓ Visible
- ✓ hidden



Quiz Question 5



5. Which of the DIV properties can create the same result as shown?

Answer:

DIV{ Float: right; }

The image shows a portion of a web page with a light blue background. On the right side, there is a light green rectangular box containing text. The text reads: "Good morning, everone! I am Mary. I am studing in the University. How is your learning process? Would like to introduce yourself?"

Appendix(Q1)



```
<style>
body{
    background-color:lightblue;
}

table{
    width:300px;
    border-collapse:collapse;
    border: red solid 2px;
}

th,td{
    height:50px;
    padding:10px;
}

tr:nth-child(odd){background-color: lightgreen}

</style>
```

Appendix(Q2)



```
<style>
body{
    background-color:lightblue;
}

table{
    width:400px;
    border-collapse:collapse;
    border: red solid 2px;
}
```

```
td{
    height:50px;
    text-align:center;
    vertical-align:bottom;
    border:blue solid 1px;
}
th{
    height:70px;
    padding:10px;
}

tr:nth-child(odd){background-color: lightgreen}

</style>
```

Appendix(Q3)



```
<style>
body{
    background-color:lightblue;
}

div{
    width:300px;
    height:200px;
    background-color:lightgreen;
    float: right;
}

</style>
```

Appendix(Q5)



```
<body>
  <div>
    <p>Good morning, everyone! I am Mary. I am
    studing in the University. How is your
    learning process?</p>
    <p> Would like to introduce yourself?</p>
  </div>
</body>
```

```
<style>
  body{
    background-color:lightblue;
  }

  div{
    width:300px;
    height:200px;
    background-color:lightgreen;
    float: right;
  }

</style>
```



Reference



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Reference



There are some useful websites for reference:

1. https://www.w3schools.com/css/css_table.asp
2. https://www.w3schools.com/css/css_table_style.asp
3. https://www.w3schools.com/css/css_overflow.asp