

Introduction to JavaScript: Part 4

Introduction to Internet and Web



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Contents

- ❖ HTML Table (Advanced)
- ❖ Use OPEN-API with Parameters

HTML Table

❖ HTML tables allow web authors to arrange data into rows and columns.

- Use the HTML <table> element to define a table
- Use the HTML <tr> element to define a table row
- Use the HTML <td> element to define a table data
- Use the HTML <th> element to define a table heading

```
<!DOCTYPE html>
<html>
<body>

<h2>Basic HTML Table</h2>

<table style="width:100%">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
    <th>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>

</body>
</html>
```

Basic HTML Table

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

HTML Table

- ❖ Use the CSS border property to define a border
- ❖ Use the CSS border-collapse property to collapse cell borders

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
}
</style>
</head>
<body>

<h2>Bordered Table</h2>
```

Bordered Table

Use the CSS border property to add a border to the table.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

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

<h2>Collapsed Borders</h2>
<p>If you want the borders to collapse into one border,
add the CSS border-collapse property.</p>
```

Collapsed Borders

If you want the borders to collapse into one border, add the CSS border-collapse property.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

HTML Table

- ❖ Use the CSS padding property to add padding to cells
- ❖ Use the CSS text-align property to align cell text
- ❖ Use the CSS border-spacing property to set the spacing between cells

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
  border-collapse: collapse;
}
th, td {
  padding: 15px;
}
</style>
</head>
<body>

<h2>Cellpadding</h2>
<p>Cell padding specifies the space between the cell
content and its borders.</p>
```

Cellpadding

Cell padding specifies the space between the cell content and its borders.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

HTML Table

- ❖ Use the CSS padding property to add padding to cells
- ❖ Use the CSS text-align property to align cell text
- ❖ Use the CSS border-spacing property to set the spacing between cells

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
  padding: 5px;
  text-align: right;
}
table {
  border-spacing: 15px;
}
</style>
</head>
<body>

<h2>Border Spacing</h2>
<p>Border spacing specifies the space between the cells.
```

Border Spacing

Border spacing specifies the space between the cells.

Firstname	Lastname	Age
Jill	Smith	50
Eve	Jackson	94
John	Doe	80

HTML Table

- ❖ Use the HTML <caption> element to define a table caption
 - Note: The <caption> tag must be inserted immediately after the <table> tag.
- ❖ Use the colspan attribute to make a cell span many columns
- ❖ Use the rowspan attribute to make a cell span many rows

```
<table style="width:100%">
  <caption>Monthly savings</caption>
  <tr>
    <th>Month</th>
    <th>Savings</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$50</td>
  </tr>
</table>

</body>
</html>
```

Table Caption

To add a caption to a table, use the caption tag.

Month	Savings
January	\$100
February	\$50

HTML Table

- ❖ Use the HTML <caption> element to define a table caption
 - Note: The <caption> tag must be inserted immediately after the <table> tag.
- ❖ Use the colspan attribute to make a cell span many columns
- ❖ Use the rowspan attribute to make a cell span many rows

```
<table style="width:100%">
  <tr>
    <th>Name:</th>
    <td>Bill Gates</td>
  </tr>
  <tr>
    <th rowspan="2">Telephone:</th>
    <td>55577854</td>
  </tr>
  <tr>
    <td>55577855</td>
  </tr>
</table>
```

Cell that spans two rows

To make a cell span more than one row, use the rowspan attribute.

Name:	Bill Gates
Telephone:	55577854
	55577855

```
<table style="width:100%">
  <tr>
    <th>Name</th>
    <th colspan="2">Telephone</th>
  </tr>
  <tr>
    <td>Bill Gates</td>
    <td>55577854</td>
    <td>55577855</td>
  </tr>
</table>
```

Cell that spans two columns

To make a cell span more than one column, use the colspan attribute.

Name	Telephone	
Bill Gates	55577854	55577855

Use OPEN-API with Parameters 실습

❖ 날씨 정보를 table로 출력

- Table heading: response item의 항목 명들
- Table data: response item별로 항목 값들
- STYLE
 - Table: 100% width, border (2px, solid, black)
 - Table heading: border (1px, solid, black), text center alignment
 - Table data: border (1px, solid, black), text right alignment

localhost:3000/myJS_assign_sol.html

Click the button

button

Base Date:
20200607

Base Time:
1800

nx:
100

ny:
100

dataType:
json

baseDate	baseTime	category	nx	ny	obsrValue
20200607	1800	PTY	100	100	0
20200607	1800	REH	100	100	58
20200607	1800	RN1	100	100	0
20200607	1800	T1H	100	100	23
20200607	1800	UUU	100	100	-0.1
20200607	1800	VEC	100	100	24
20200607	1800	VVV	100	100	-0.4
20200607	1800	WSD	100	100	0.5

Use OPEN-API with Parameters 실습

❖ 동작

- 사용자가 각 항목 입력
- “Button” 버튼 클릭
 - Base_date이나 base_time 입력값의 문자열 길이가 data.go.kr의 매뉴얼 설명에 나온 항목크기보다 작을 경우, 해당 input element로 focus 이동하고, alert 창 표시 (“base_date length error”, “base_time length error”)
 - 사용한 API 이름: 동네예보 조회서비스- [초단기실황조회]
- 아래의 표 출력
 - 그 외에 Servicekey, Base_date, base_time 등을 테스트 시각에 맞춰 정상적으로 입력할 시 아래와 같은 결과 확인

localhost:3000 내용:

base_date lengh error

확인

Click the button

button

Base Date:
20200607

Base Time:
1800

nx:
100

ny:
100

dataType:
json

baseDate	baseTime	category	nx	ny	obsrValue
20200607	1800	PTY	100	100	0
20200607	1800	REH	100	100	58
20200607	1800	RN1	100	100	0
20200607	1800	T1H	100	100	23
20200607	1800	UUU	100	100	-0.1
20200607	1800	VEC	100	100	24
20200607	1800	VVV	100	100	-0.4
20200607	1800	WSD	100	100	0.5

AJAX, JSON 실습 #2

❖ 동작 과정 개요

