

CSS Grid Intro

- description : CSS Responsive Web Design- Images
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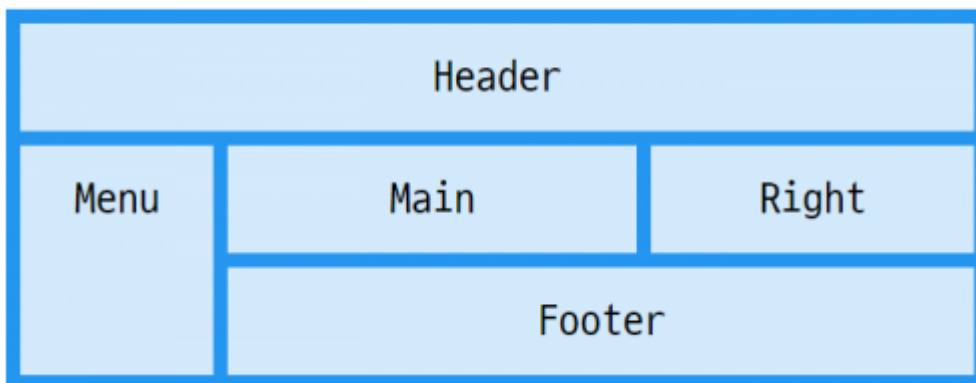
The source of this article

[CSS Grid Intro](#)

CSS Grid Layout Module

Grid Layout

This grid layout contains six columns and three rows:



Grid Layout

CSS Grid Layout Module은 행(rows)과 열(columns)이 있는 그리드 기반 레이아웃 시스템을 제공하여, floats와 positioning을 사용하지 않고도 웹 페이지를 더 쉽게 디자인할 수 있습니다.

Grid Elements

그리드 레이아웃은 하나 이상의 자식 요소가 있는 부모 요소로 구성됩니다.

Example

```
<style>
.grid-container {
  display: grid;
  grid-template-columns: auto auto auto;
  background-color: #2196F3;
  padding: 10px;
}
.grid-item {
  background-color: rgba(255, 255, 255, 0.8);
  border: 1px solid rgba(0, 0, 0, 0.8);
  padding: 20px;
  font-size: 30px;
  text-align: center;
}
</style>
</head>
<body>

<h1>Grid Elements</h1>

<p>
  A Grid Layout must have a parent element with the display
property
  set to grid or inline-grid.</p>

<p>
  Direct child element(s) of the grid container automatically becomes
grid items.
</p>

<div class="grid-container">
  <div class="grid-item">1</div>
  <div class="grid-item">2</div>
  <div class="grid-item">3</div>
  <div class="grid-item">4</div>
  <div class="grid-item">5</div>
  <div class="grid-item">6</div>
  <div class="grid-item">7</div>
  <div class="grid-item">8</div>
  <div class="grid-item">9</div>
</div>
```

```
</body>
```

Grid Elements

A Grid Layout must have a parent element with the *display* property set to *grid* or *inline-grid*.

Direct child element(s) of the grid container automatically becomes grid items.

1	2	3
4	5	6
7	8	9

Display Property

HTML 요소는 `display` 속성이 `grid` 또는 `inline-grid`로 설정되면 그리드 컨테이너가 됩니다.

Example

```
<style>
  .grid-container {
    display: grid;
    grid-template-columns: auto auto auto; /* 3개의 컬럼(세로 열)을 만들고, 자동
으로 3개의 로우(가로 행)가 생성 */
    background-color: #2196F3;
    padding: 10px;
  }

  .grid-item {
    background-color: rgba(255, 255, 255, 0.8);
    border: 1px solid rgba(0, 0, 0, 0.8);
    padding: 20px;
    font-size: 30px;
    text-align: center;
  }
</style>
</head>
<body>

<h1>The display Property:</h1>
<div class="grid-container">
  <div class="grid-item">1</div>
  <div class="grid-item">2</div>
  <div class="grid-item">3</div>
  <div class="grid-item">4</div>
```

```
<div class="grid-item">5</div>
<div class="grid-item">6</div>
<div class="grid-item">7</div>
<div class="grid-item">8</div>
<div class="grid-item">9</div>
</div>

<p>
  Set the display property to grid to make a block-
  level grid container.
</p>
</body>
```

The display Property:

1	2	3
4	5	6
7	8	9

Set the `display` property to `grid` to make a block-level grid container.

Example

```
<style>
  .grid-container {
    display: inline-grid;
    grid-template-columns: auto auto auto; /* 3개의 컬럼(세로 열)을 만들고, 자동
으로 3개의 로우(가로 행)가 생성 */
    background-color: #2196F3;
    padding: 10px;
  }

  .grid-item {
    background-color: rgba(255, 255, 255, 0.8);
    border: 1px solid rgba(0, 0, 0, 0.8);
    padding: 20px;
    font-size: 30px;
    text-align: center;
  }
</style>
</head>
<body>

  <h1>The display Property:</h1>
```

```
<div class="grid-container">
  <!-- .grid-item$*9 엔터 클릭하면 아래와 같이 -->
  <div class="grid-item">1</div>
  <div class="grid-item">2</div>
  <div class="grid-item">3</div>
  <div class="grid-item">4</div>
  <div class="grid-item">5</div>
  <div class="grid-item">6</div>
  <div class="grid-item">7</div>
  <div class="grid-item">8</div>
  <div class="grid-item">9</div>
</div>

<p>
  Set the <em>display</em> property to <em>inline-grid</em>
  to make a block-level grid container.
</p>
</body>
```

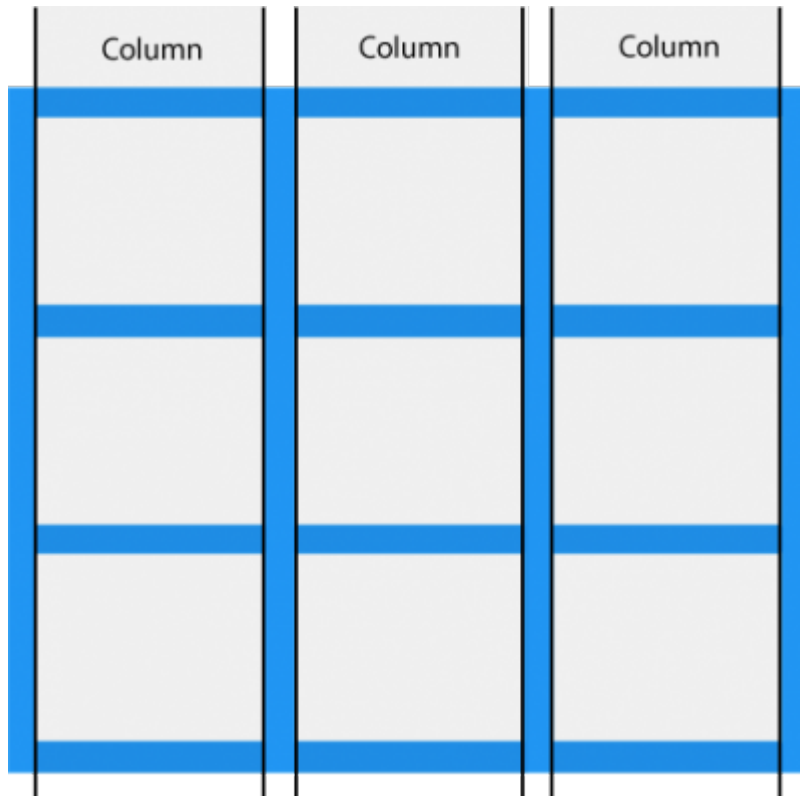
The display Property:

1	2	3
4	5	6
7	8	9

Set the *display* property to *inline-grid* to make a block-level grid container.

Grid Columns

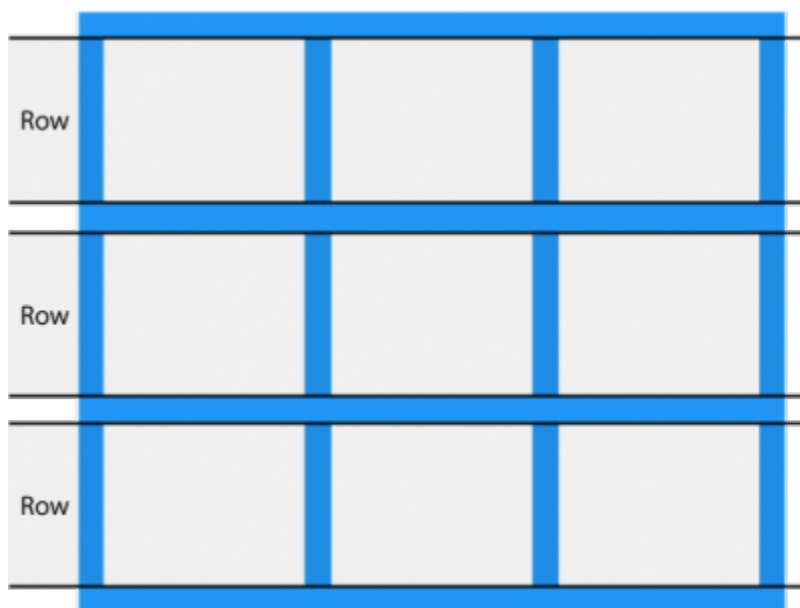
그리드 아이템의 수직선(공간)은 컬럼(columns)라고 합니다.



ref : The source of this png file is [CSS Grid Intro](#)

Grid Rows

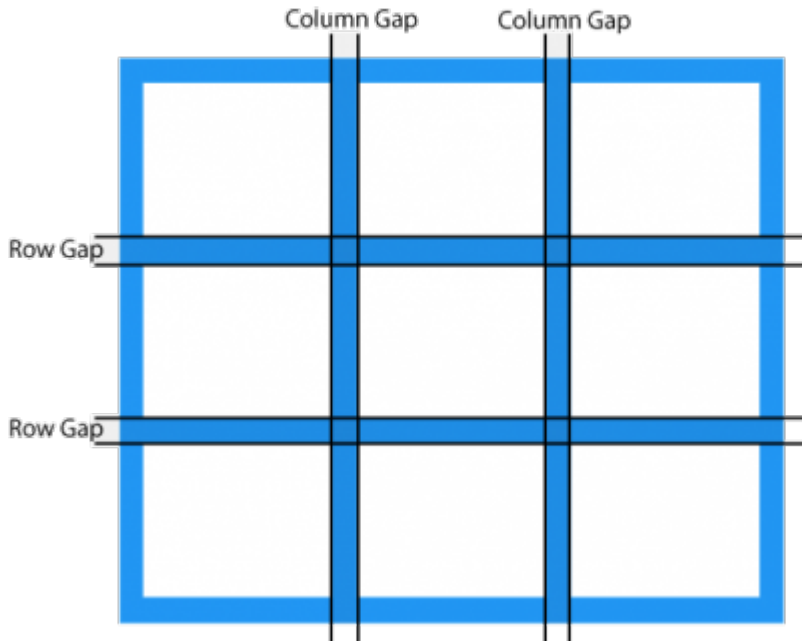
그리드 아이템의 수평선(공간) 로우(rows)라고 합니다.



ref : The source of this png file is [CSS Grid Intro](#)

Grid Gaps

각각의 컬럼/로우 사이의 공간을 갭(gaps)이라고 합니다.



아래의 속성들을 사용하여 갭 사이즈를 조정할 수 있습니다.

- `grid-column-gap`
- `grid-row-gap`
- `grid-gap`

Example

`grid-column-gap` 속성은 컬럼(세로 열) 사이의 간격을 설정합니다.

```
<style>
.grid-container {
  display: grid;
  grid-column-gap: 50px;
  grid-template-columns: auto auto auto;
  background-color: #2196F3;
  padding: 10px;
}

.grid-item {
  background-color: rgba(255, 255, 255, 0.8);
  border: 1px solid rgba(0, 0, 0, 0.8);
  padding: 20px;
  font-size: 30px;
  text-align: center;
}
```

```
</style>
</head>
<body>

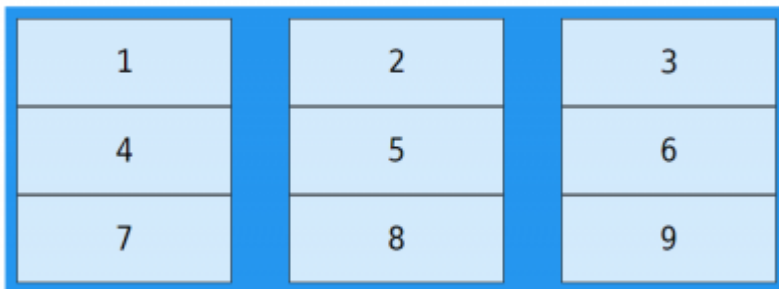
<h1>The grid-column-gap Property:</h1>

<div class="grid-container">
  <div class="grid-item">1</div>
  <div class="grid-item">2</div>
  <div class="grid-item">3</div>
  <div class="grid-item">4</div>
  <div class="grid-item">5</div>
  <div class="grid-item">6</div>
  <div class="grid-item">7</div>
  <div class="grid-item">8</div>
  <div class="grid-item">9</div>

</div>

<p>Use the <em>grid-column-gap</em> property to adjust the space between
the columns.</p>
</body>
```

The grid-column-gap Property:



Use the *grid-column-gap* property to adjust the space between the columns.

Example

grid-row-gap 속성은 로우(rows, 가로 행) 사이의 간격을 설정합니다.

```
<style>
.grid-container {
  display: grid;
  grid-template-columns: auto auto auto;
  background-color: #2196f3;
  padding: 10px;
  grid-row-gap: 50px;
}
```



```

.grid-item {
  background-color: rgba(255, 255, 255, 0.8);
  border: 1px solid rgba(0, 0, 0, 0.8);
  padding: 20px;
  font-size: 30px;
  text-align: center;
}
</style>

</head>
<body>

  <h1>The grid-row-gap Property:</h1>

  <div class="grid-container">
    <div class="grid-item">1</div>
    <div class="grid-item">2</div>
    <div class="grid-item">3</div>
    <div class="grid-item">4</div>
    <div class="grid-item">5</div>
    <div class="grid-item">6</div>
    <div class="grid-item">7</div>
    <div class="grid-item">8</div>
    <div class="grid-item">9</div>
  </div>

  <p>Use the grid-row-gap property to adjust the space between the
rows.</p>
</body>

```

The grid-row-gap Property:

1	2	3
4	5	6
7	8	9

Use the `grid-row-gap` property to adjust the space between the rows.

Example

grid-gap 속성은 grid-row-gap 및 grid-column-gap 속성에 대한 속기 속성(shorthand property)입니다.

```
<style>
  .grid-container {
    display: grid;
    grid-gap: 50px 100px; /* rows and columns in order */
    grid-template-columns: auto auto auto;
    background-color: #2196F3;
    padding: 10px;
  }
  .grid-item {
    background-color: rgba(255, 255, 255, 0.8);
    border: 1px solid rgba(0, 0, 0, 0.8);
    padding: 20px;
    font-size: 30px;
    text-align: center;
  }
</style>
</head>
<body>

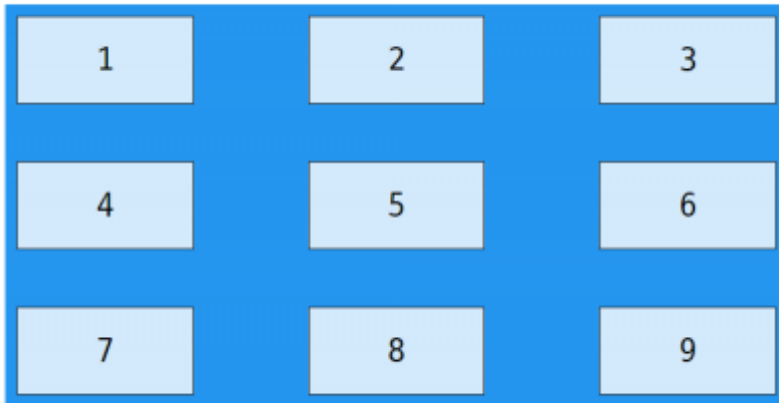
  <h1>The grid-gap Property:</h1>

  <div class="grid-container">
    <div class="grid-item">1</div>
    <div class="grid-item">2</div>
    <div class="grid-item">3</div>
    <div class="grid-item">4</div>
    <div class="grid-item">5</div>
    <div class="grid-item">6</div>
    <div class="grid-item">7</div>
    <div class="grid-item">8</div>
    <div class="grid-item">9</div>
  </div>

  <p>Use the <em>grid-gap</em> property to adjust the space between the
  columns <em>and</em>the rows.</p>

</body>
```

The grid-gap Property:



Use the *grid-gap* property to adjust the space between the columns and the rows.

Example

grid-gap 속성을 사용하여 행 간격과 열 간격을 하나의 값으로 설정할 수도 있습니다:

```
<style>
  .grid-container {
    display: grid;
    grid-gap: 50px; /* one value for both rows and columns */
    grid-template-columns: auto auto auto;
    background-color: #2196F3;
    padding: 10px;
  }
  .grid-item {
    background-color: rgba(255, 255, 255, 0.8);
    border: 1px solid rgba(0, 0, 0, 0.8);
    padding: 20px;
    font-size: 30px;
    text-align: center;
  }
</style>
</head>
<body>

  <h1>The grid-gap Property:</h1>

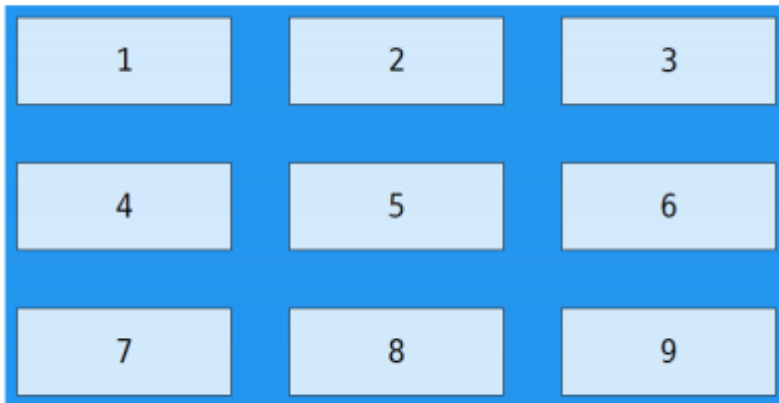
  <div class="grid-container">
    <div class="grid-item">1</div>
    <div class="grid-item">2</div>
    <div class="grid-item">3</div>
    <div class="grid-item">4</div>
    <div class="grid-item">5</div>
    <div class="grid-item">6</div>
    <div class="grid-item">7</div>
```

```
<div class="grid-item">8</div>
<div class="grid-item">9</div>
</div>
```

<p>Use the grid-gap property to adjust the **space** between the columns and the rows.</p>

```
</body>
```

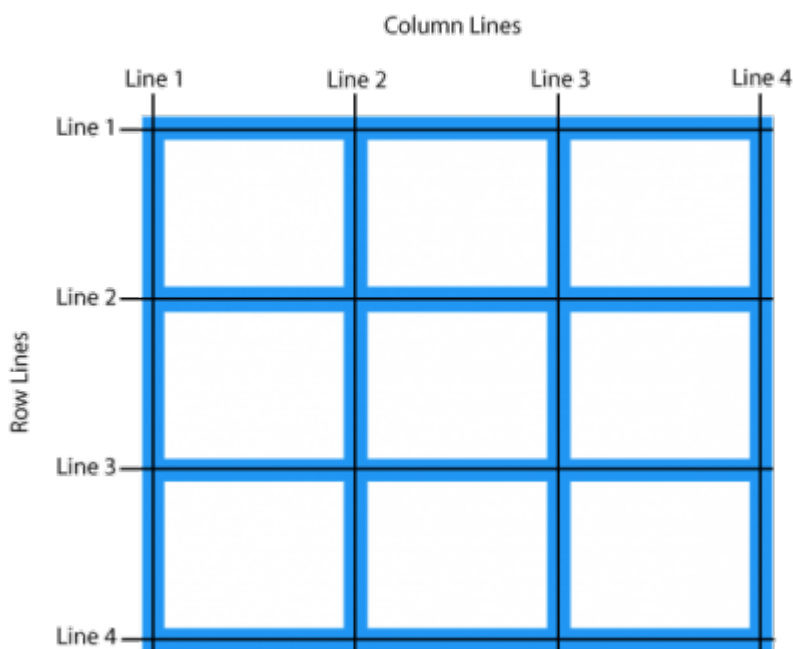
The grid-gap Property:



Use the *grid-gap* property to adjust the space between the columns *and* the rows.

Grid Lines

컬럼 사이의 라인들을 컬럼 라인(column lines)이라고 합니다.



그리드 컨테이너 내부에 그리드 아이템을 위치시킬 때 라인 넘버를 참조합니다.

Example

컬럼 라인 1에 그리드 아이템을 위치시키고, 컬럼 라인 3에서 종료하게 합니다.

```
<style>
  .grid-container {
    display: grid;
    grid-template-columns: auto auto auto;
    grid-gap: 10px;
    background-color: #2196F3;
    padding: 10px;
  }

  .grid-container > div {
    background-color: rgba(255, 255, 255, 0.8);
    text-align: center;
    padding: 20px 0;
    font-size: 30px;
  }

  .item1 {
    grid-column-start: 1;
    grid-column-end: 3;
  }
</style>
</head>
<body>

  <h1>Grid Lines</h1>

  <div class="grid-container">
    <div class="item1">1</div>
    <div class="item2">2</div>
    <div class="item3">3</div>
    <div class="item4">4</div>
    <div class="item5">5</div>
    <div class="item6">6</div>
    <div class="item7">7</div>
    <div class="item8">8</div>
  </div>

  <p>You can refer to line numbers when placing grid items.</p>
</body>
```

Grid Lines

1		2
3	4	5
6	7	8

You can refer to line numbers when placing grid items.

Example

로우 라인 1에 그리드 아이템을 위치시키고, 로우 라인 3에서 종료하게 합니다.

```
<style>
  .grid-container {
    display: grid;
    grid-template-columns: auto auto auto;
    grid-gap: 10px;
    background-color: #2196F3;
    padding: 10px;
  }

  .grid-container > div {
    background-color: rgba(255, 255, 255, 0.8);
    text-align: center;
    padding: 20px 0;
    font-size: 30px;
  }

  .item1 {
    grid-row-start: 1;
    grid-row-end: 3;
  }
</style>
</head>
<body>

  <h1>Grid Lines</h1>

  <div class="grid-container">
    <div class="item1">1</div>
    <div class="item2">2</div>
```

```
<div class="item3">3</div>
<div class="item4">4</div>
<div class="item5">5</div>
<div class="item6">6</div>
<div class="item7">7</div>
<div class="item8">8</div>
</div>
```

<p>You can refer to line numbers when placing grid items.</p>
</body>

Grid Lines

1	2	3
	4	5
6	7	8

You can refer to line numbers when placing grid items.



All CSS Grid Properties

오션,, CSS, Grid, Layout, Module

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