기초웹

22 Winter CNU 기초 스터디

21 남정연

21 박준서

What is CSS?

Cascading Style Sheet

종속되는 스타일 시트

What is Cascading?



+ 단어장 저장

cas·cade

1. 작은 폭포 2. 폭포처럼 쏟아지는 물 3. 폭포처럼 흐르다

발음 미국·영국 [kæˈskeɪd] 디》 | ② 영국식 디》 | ②

동사형 3인칭 단수 현재 cascades 과거 cascaded 과거분사 cascaded 현재분사 cascading

- 1. Source Order
- 2. Specificity
- 3. Importance

This is my heading.

Interactive editor

```
h1 {
    color: red;
}
h1 {
    color: blue;
}
```

<h1>This is my heading.</h1>

- 1. Source Order
- 2. Specificity
- 3. Importance

This is my heading.

Interactive editor

```
.main-heading {
    color: red;
}
h1 {
    color: blue;
}
<h1 class="main-heading">This is my heading.</h1>
```

- 1. Source Order
- 2. Specificity
- 3. Importance

Heading with no class

Heading with class of small

Heading with class of bright

```
h2 {
    font-size: 2em;
    color: #000;
    font-family: Georgia, 'Times New Roman', Times, serif;
}
.small {
    font-size: 1em;
}
.bright {
    color: rebeccapurple;
}
```

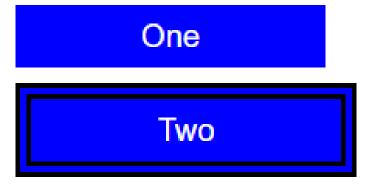
```
<h2>Heading with no class</h2>
<h2 class="small">Heading with class of small</h2>
<h2 class="bright">Heading with class of bright</h2>
```

- 1. Source Order
- 2. Specificity
- 3. Importance

- Thousands: Score one in this column if the declaration is inside a <u>style</u> attribute, aka inline styles.
 Such declarations don't have selectors, so their specificity is always 1000.
- 2. Hundreds: Score one in this column for each ID selector contained inside the overall selector.
- Tens: Score one in this column for each class selector, attribute selector, or pseudo-class contained inside the overall selector.
- Ones: Score one in this column for each element selector or pseudo-element contained inside the overall selector.

Selector	Thousands	Hundreds	Tens	Ones	Total specificity
h1	0	0	0	1	0001
h1 + p::first-letter	0	0	0	3	0003
li > a[href*="en-US"] > .inline-warning	0	0	2	2	0022
#identifier	0	1	0	0	0100
No selector, with a rule inside an element's style attribute	1	0	0	0	1000

- 1. Source Order
- 2. Specificity
- 3. Importance



```
/* specificity: 0024 */
div div li:nth-child(2) a:hover {
    border: 10px solid black;
/* specificity: 0023 */
div li:nth-child(2) a:hover {
    border: 10px dashed black:
/* specificity: 0033 */
div div .nav:nth-child(2) a:hover {
    border: 10px double black:
```

- 1. Source Order
- 2. Specificity
- 3. Importance

This is a paragraph.

One selector to rule them all!

```
#winning {
    background-color: red;
    border: 1px solid black;
.better {
    background-color: gray;
    border: none !important;
p {
    background-color: blue;
    color: white;
    padding: 5px;
```

```
This is a paragraph.
One selector to rule them all!
```

CSS Inheritance

As the body has been set to have a color of blue this is inherited through the descendants.

We can change the color by targetting the element with a selector, such as this span.

Interactive editor

```
body {
    color: blue;
}
span {
    color: black;
}
```

As the body has been set to have a color of blue this is inherited through the descendants.
\mathbb{p}\mathbb{W} can change the color by targetting the element with a selector, such as this
\span<\span>.

Inherited Attribute의 경우 부모의 CSS가 자식의 CSS로 전파

Block and Inline

If a box has an outer display type of block, it will behave in the following ways:

- The box will break onto a new line.
- The box will extend in the inline direction to fill the space available in its container. In most cases this
 means that the box will become as wide as its container, filling up 100% of the space available.
- The <u>width</u> and <u>height</u> properties are respected.
- Padding, margin and border will cause other elements to be pushed away from the box

Some HTML elements, such as <h1> and , use block as their outer display type by default.

Block and Inline

If a box has an outer display type of inline, then:

- The box will not break onto a new line.
- The width and height properties will not apply.
- Vertical padding, margins, and borders will apply but will not cause other inline boxes to move away from the box.
- Horizontal padding, margins, and borders will apply and will cause other inline boxes to move away from the box.

Some HTML elements, such as <a>, , and use inline as their outer display type by default.

Inline box

raph and this is a
span inside that
paragraph. A span is an inline
element and so does not respect
width and height.

```
span {
  margin: 20px;
  padding: 20px;
  width: 80px;
  height: 50px;
  background-color: lightblue;
  border: 2px solid blue;
}
```

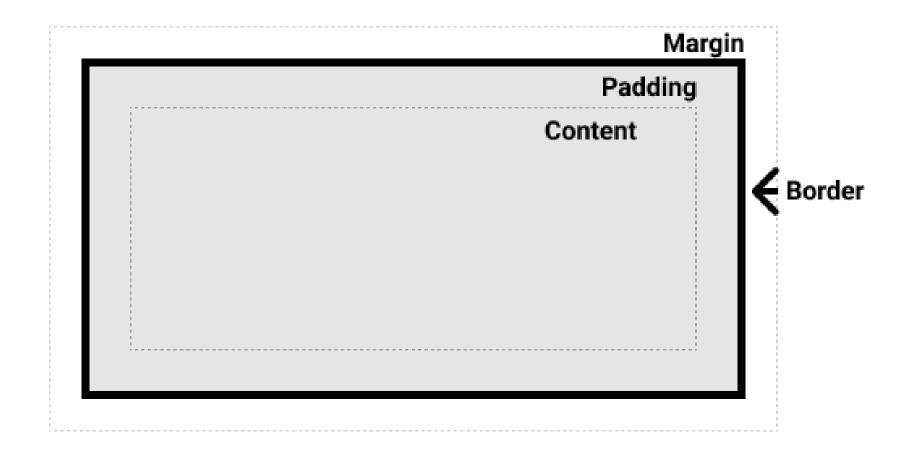
Inline-block

span inside that

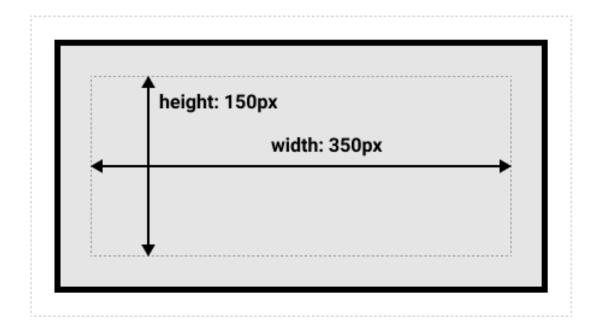
paragraph. A span is an inline element and so does not respect width and height.

```
span {
   margin: 20px;
   padding: 20px;
   width: 80px;
   height: 50px;
   background-color: lightblue;
   border: 2px solid blue;
   display: inline-block;
}
```

CSS Box!

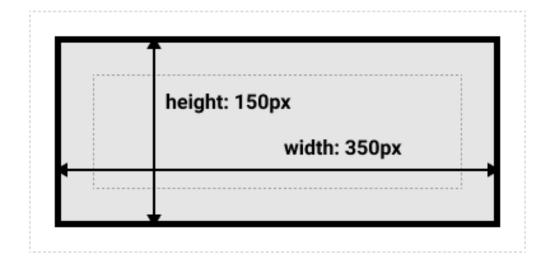


CSS Box!



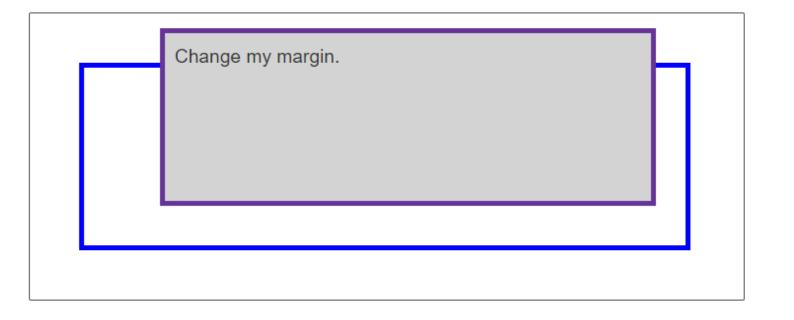
```
.box {
  width: 350px;
  height: 150px;
  margin: 10px;
  padding: 25px;
  border: 5px solid black;
}
```

CSS Box!



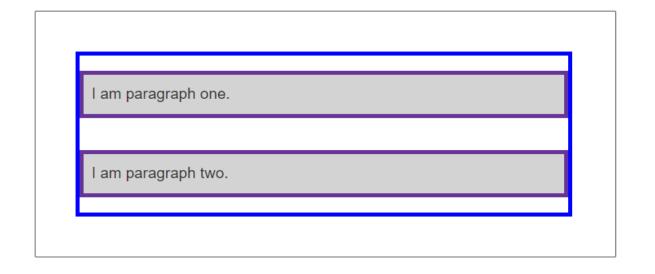
```
.box {
  box-sizing: border-box;
}
```

CSS Margin

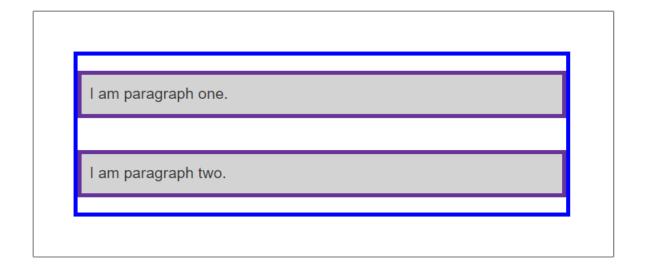


```
.box {
   margin-top: -40px;
   margin-right: 30px;
   margin-bottom: 40px;
   margin-left: 4em;
}
```

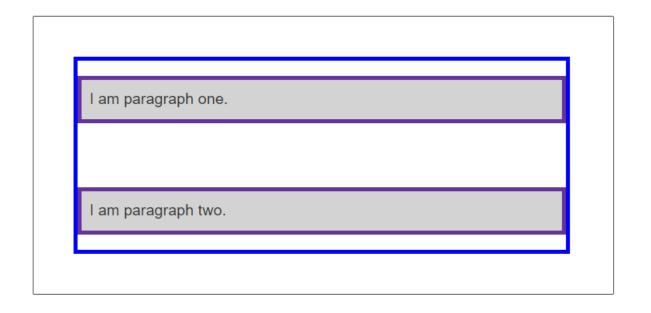
```
<div class="container">
     <div class="box">Change my margin.</div>
</div>
```



```
.one {
 margin-bottom: 40px;
.two {
 margin-top: 10px;
```

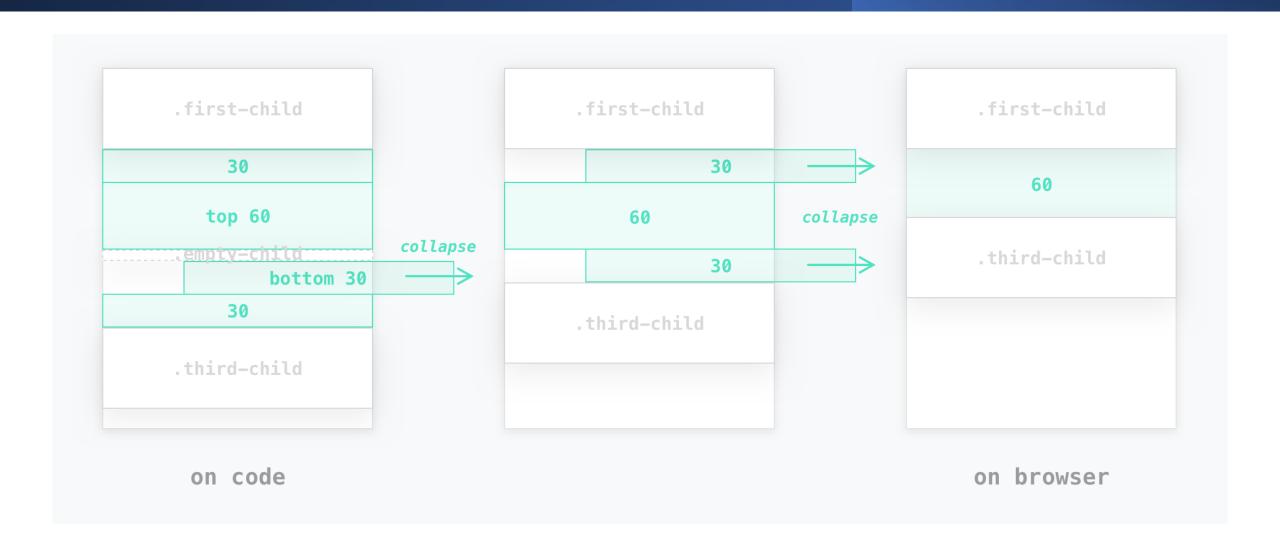


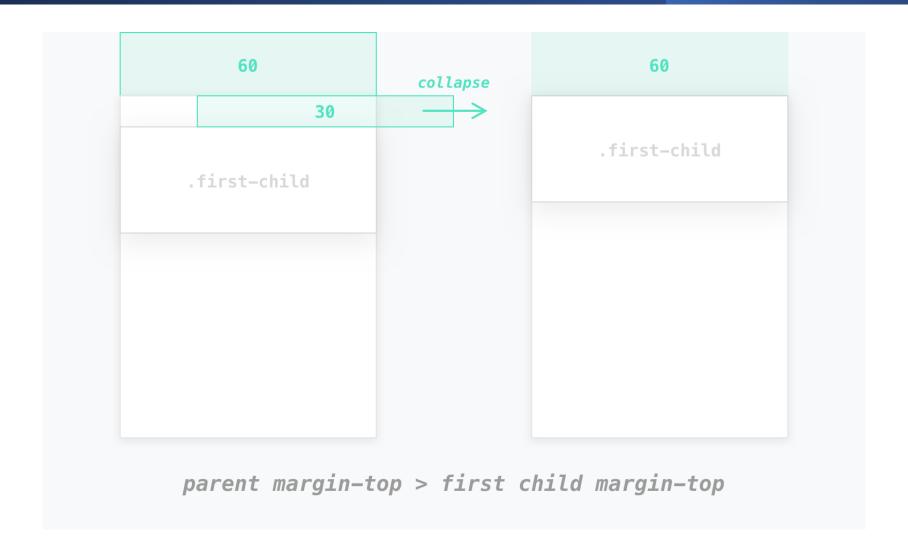
```
.one {
 margin-bottom: 40px;
.two {
 margin-top: 30px;
```

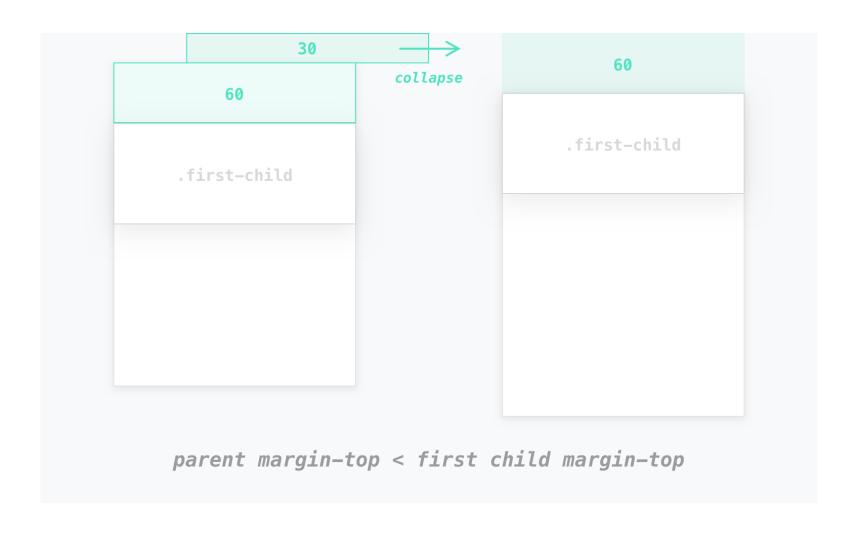


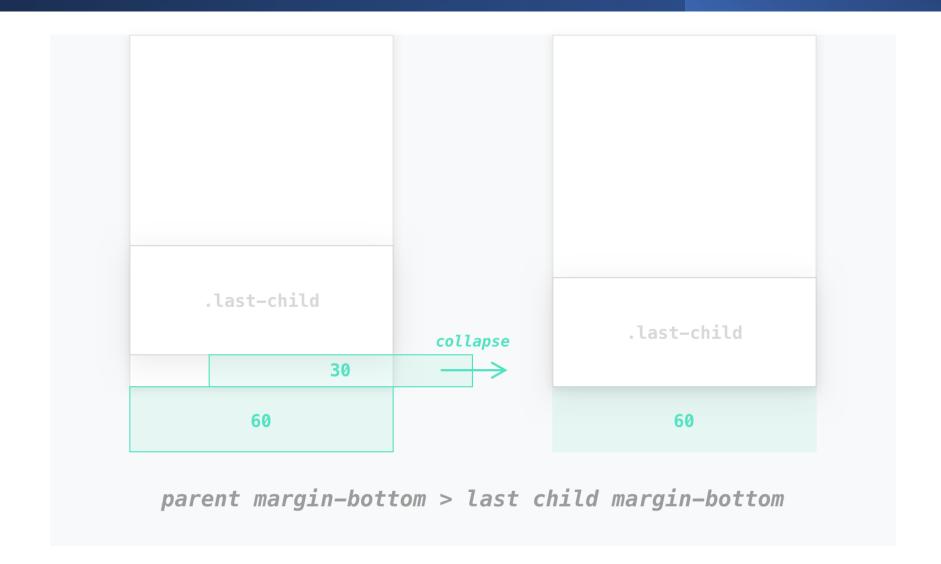
```
.one {
 margin-bottom: 40px;
.two {
 margin-top: 80px;
```







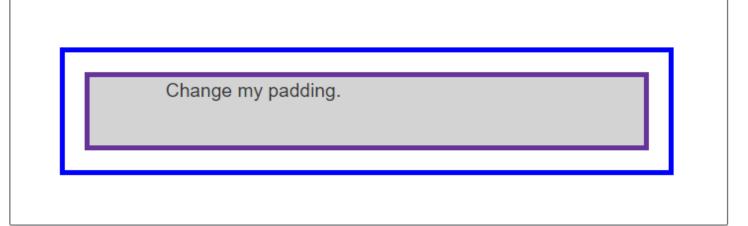








CSS Padding



```
.box {
    padding-top: 0;
    padding-right: 30px;
    padding-bottom: 40px;
    padding-left: 4em;
}

.container {
    padding: 20px;
}
```

We can set a border for all four sides of a box with border:

```
.box {
   border: 1px solid black;
}
```

Or we can target one edge of the box, for example:

```
.box {
  border-top: 1px solid black;
}
```

The individual properties for these shorthands would be:

```
.box {
  border-width: 1px;
  border-style: solid;
  border-color: black;
}
```

And for the longhands:

```
.box {
  border-top-width: 1px;
  border-top-style: solid;
  border-top-color: black;
}
```

Change my borders.

```
.container {
   border-top: 5px dotted green;
   border-right: 1px solid black;
   border-bottom: 20px double rgb(23,45,145);
}
.box {
   border-top-style: dotted;
   border-right-width: 20px;
   border-bottom-color: hotpink;
   border: 1px solid #333333;
}
```

<div class="box">Change my borders.</div>

<div class="container">

</div>

Change my borders.

```
.container {
   border-top: 5px dotted green;
   border-right: 1px solid black;
   border-bottom: 20px double rgb(23,45,145);
}
.box {
   border-top-style: dotted;
   border-right-width: 20px;
   border-bottom-color: hotpink;
   border: 1px solid #333333;
}
```

<div class="box">Change my borders.</div>

<div class="container">

</div>

Change my borders.

```
.container {
   border-top: 5px dotted green;
   border-right: 1px solid black;
   border-bottom: 20px double rgb(23,45,145);
}
.box {
   border-top-style: dotted;
   border-right-width: 20px;
   border-bottom-color: hotpink;
   border: 1px solid #333333;
}
```

<div class="box">Change my borders.</div>

<div class="container">

</div>

Borders

Try changing the borders.

```
.box {
  border: 10px solid rebeccapurple;
  border-radius: 1em;
  border-top-right-radius: 10% 30%;
}
```

```
<div class="box">
    <h2>Borders</h2>
    Try changing the borders.
</div>
```

CSS background-color

Background Colors

Try changing the background colors.

```
.box {
   background-color: #567895;
}

h2 {
   background-color: black;
   color: white;
}
span {
   background-color: rgba(255,255,.5);
}
```

```
<div class="box">
    <h2>Background Colors</h2>
    Try changing the background <span>colors</span>.
</div>
```

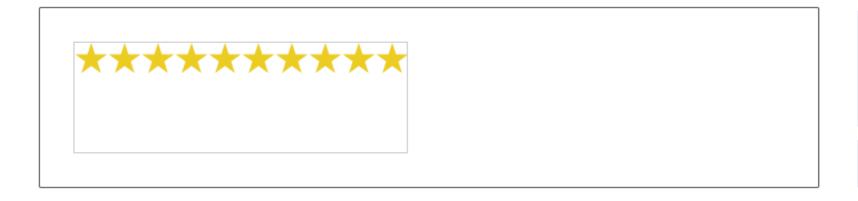
CSS background-image



```
.a {
   background-image: url(balloons.jpg);
}
.b {
   background-image: url(star.png);
}
```



```
.box {
    background-image: url(star.png);
    background-repeat: no-repeat;
}
<div class="box"></div>
```



```
.box {
    background-image: url(star.png);
    background-repeat: repeat-x;
}

<div class="box"></div>
```



```
.box {
    background-image: url(star.png);
    background-repeat: repeat-y;
}
```

```
<div class="box"></div>
```



```
.box {
  background-image: url(star.png);
  background-repeat: repeat;
}
<div class="box"></div>
```



```
.box {
  background-image: url(star.png);
  background-repeat: repeat;
}
<div class="box"></div>
```

CSS background-size



```
.box {
    background-image: url(balloons.jpg);
    background-repeat: no-repeat;
    background-size: cover;
}
```

```
<div class="box"></div>
```

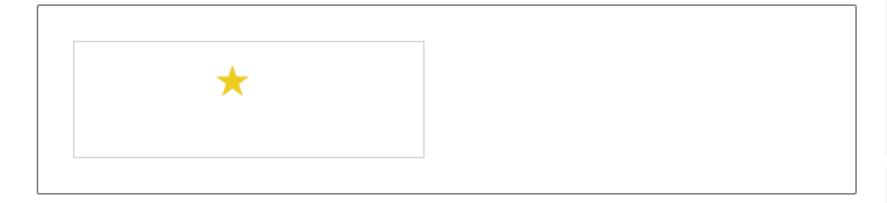
CSS background-size



```
.box {
   background-image: url(balloons.jpg);
   background-repeat: no-repeat;
   background-size: contain;
}
```

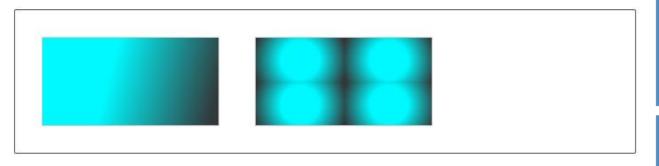
<div class="box"></div>

CSS background-position



```
.box {
   background-image: url(star.png);
   background-repeat: no-repeat;
   background-position: 120px 1em;
}
<div class="box"></div>
```

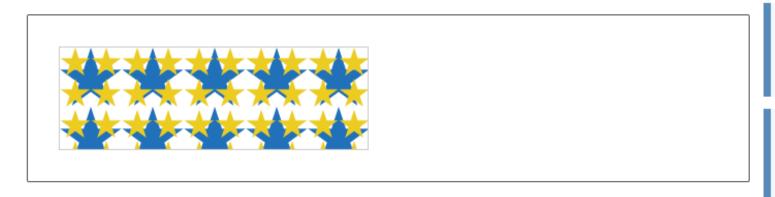
CSS Gradient background



CSS Multiple Background

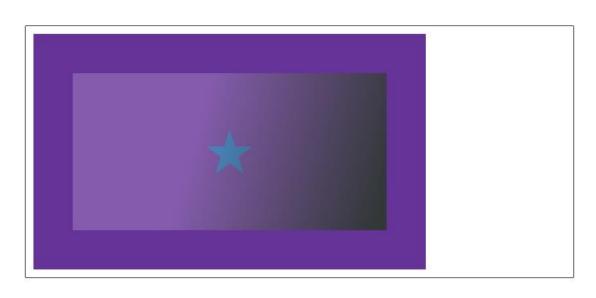
```
background-image: url(image1.png), url(image2.png), url(image3.png), url(image4.png);
background-repeat: no-repeat, repeat-x, repeat;
background-position: 10px 20px, top right;
```

CSS Multiple Background



```
.box {
  background-image: url(star.png), url(big-star.png);
}
```

CSS Background Shorthand



- A background-color may only be specified after the final comma.
- The value of background-size may only be included immediately after background-position, separated with the '/' character, like this: center/80%.

```
.box {
   background:
        Iinear-gradient(105deg, rgba(255,255,255,.2) 39%, rgba(51,56,57,1) 96%) center center /
400px 200px no-repeat,
url(big-star.png) center no-repeat,
        rebeccapurple;
}
```