BOX-SHADOW

The CSS3 box-shadow property allows you to apply one or more shadows to any box - including outer and inner box shadows.

An outer box-shadow casts a shadow as if the box were opaque. The shadow is drawn outside the border edge only.

An inner box-shadow casts a shadow as if everything outside the box were opaque. The inner shadow is drawn inside the padding edge only.

The box-shadow should follow any curved corners that have been defined with border-radius.



box-shadow syntax

The **box-shadow** property takes four <length> values, one color value and an optional "inset" keyword.

```
/* box-shadow example */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
```

The <length> values can include relative and absolute values.

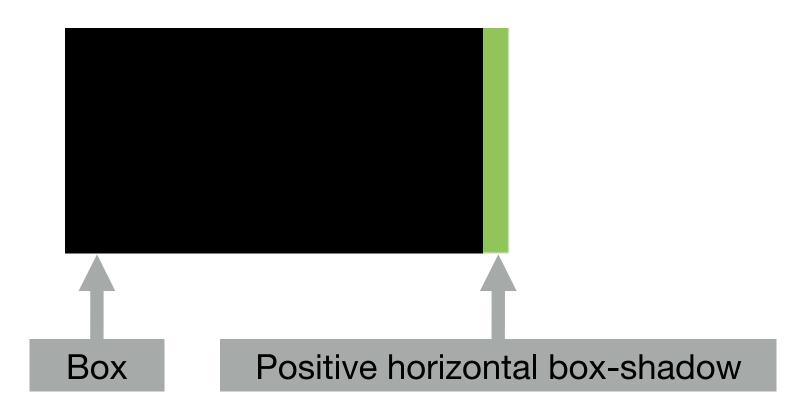
```
/* different length values */
   box-shadow: 1em 1em 1em 1em #000; }
    box-shadow: 2ex 2ex 2ex 2ex #000; }
   box-shadow: 3px 3px 3px 3px #000; }
   box-shadow: 4in 4in 4in 4in #000; }
   box-shadow: 5cm 5cm 5cm 5cm #000; }
   box-shadow: 6mm 6mm 6mm 6mm #000;
   box-shadow: 7pt 7pt 7pt 7pt #000; }
p { box-shadow: 8pc 8pc 8pc 8pc #000; }
```

Horizontal offset

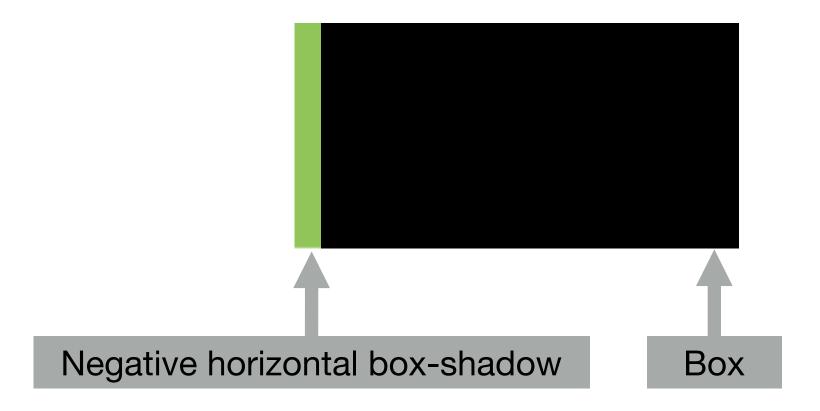
The horizontal offset of the shadow is defined first.

```
/* horizontal offset */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
Horizontal offset
```

A positive value will place the shadow on the right of the box.



A negative value will place the shadow on the left of the box.

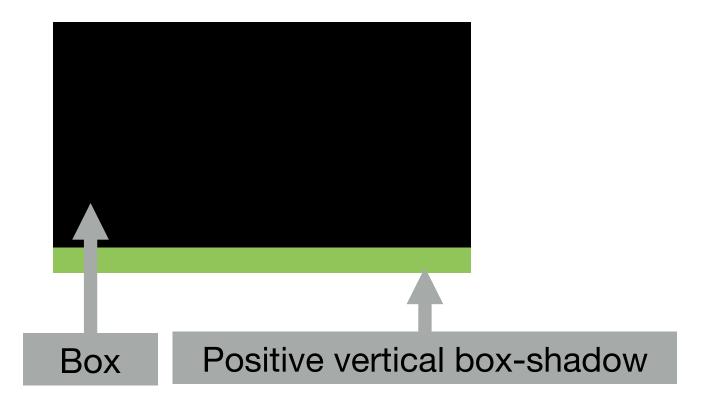


Vertical offset

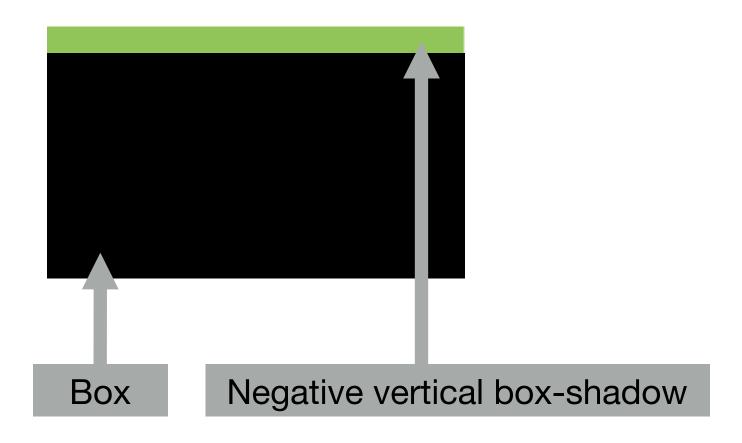
The vertical offset of the shadow is defined second.

```
/* vertical offset */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
   Vertical offset
```

A positive value will place the shadow below of the box.



A negative value will place the shadow above the box.

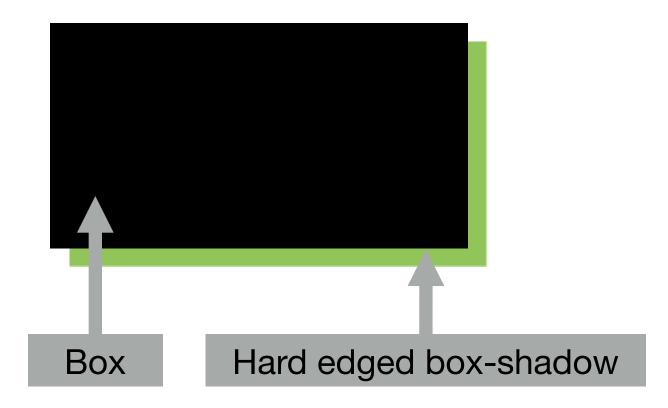


Blur radius

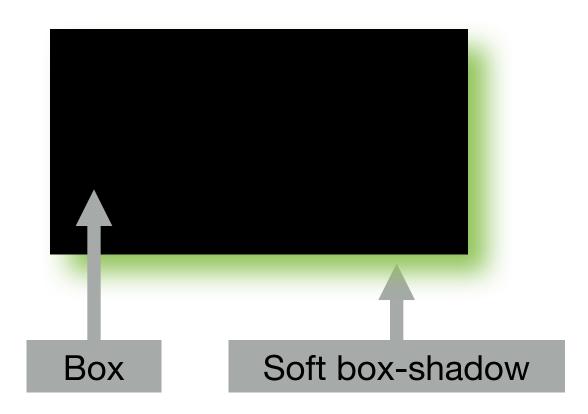
The **blur radius** of the shadow is defined third.

```
/* blur radius */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
Blur radius
```

If set to a value of "0" the shadow will be hard edged.



The higher the blur radius number, the softer the box-shadow will be.



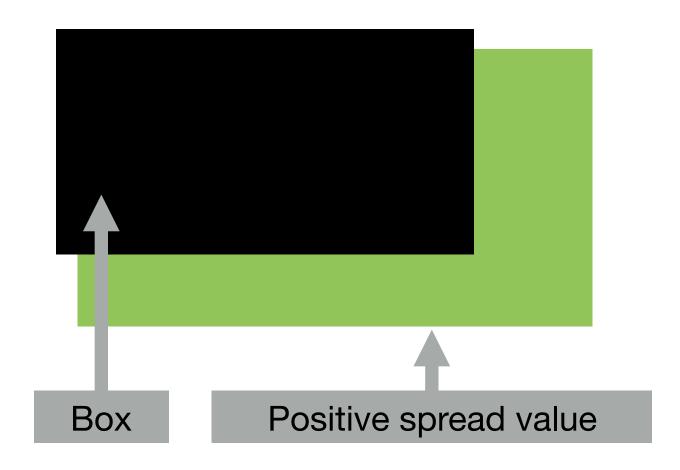
Negative values are **not allowed** for the bur radius.

Spread distance

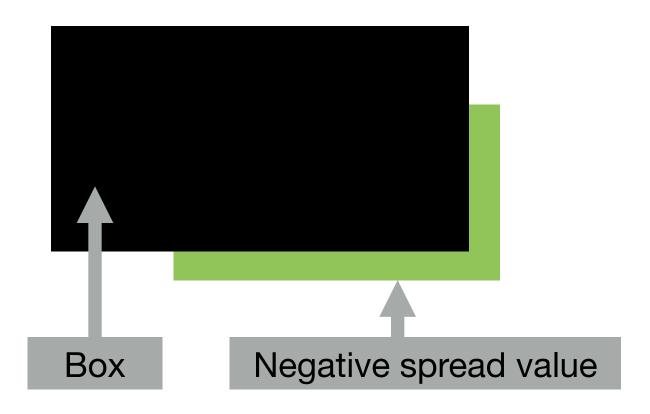
The **spread distance** of the shadow is defined fourth.

```
/* spread distance */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
   Spread distance
```

Positive values cause the shadow to **expand in all directions** (so the shadow appears larger than the box).



Negative values cause the shadow to **contract in all directions** (so the shadow appears smaller than the box).



Box-shadow color

The color can specified using a variety of methods including: keyword, hexadecimal notation, RGB/RGBA notation and HSL/HSLA notation.

```
/* box-shadow color */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}

Box shadow color
```

Box-shadow inset

If the "inset" keyword is present, browsers will render the box with an inset shadow.

```
/* box-shadow inset */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
```

Inset keyword

Essential and optional values

Box-shadow must include the two offset values. Blur radius, spread, color and inset are optional.

```
/* essential and optional values */
p
{
   box-shadow: 10px 10px 5px 5px #000 inset;
}
```

If no blur radius is specified, browsers will assume a '0' value and the shadow will be hard edged.

```
/* essential and optional values */
p
{
   box-shadow: 10px 10px ? 5px #000 inset;
}
```

Zero value used if none defined

If no spread is specified, browsers will assume a '0' value and the shadow will be the same size as the box.

```
/* essential and optional values */
p
{
   box-shadow: 10px 10px 5px ? #000 inset;
}
```

Zero value used if none defined

If no color is specified, most browsers will use the color of the box as the color value.

```
/* essential and optional values */
p
{
   box-shadow: 10px 10px 5px 5px ? inset;
}
```

Text color value used if none defined

If no "inset" keyword is specified, browsers will assume that the shadow is not inset.

```
/* essential and optional values */
p
{
   box-shadow: 10px 10px 5px 5px #000 ?;
}
```

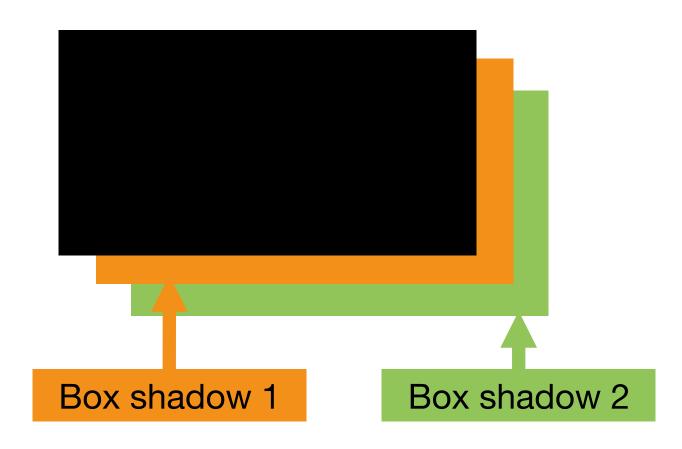
No inset used if none defined

Multiple box-shadows

Multiple box shadows can be applied to a box. They are applied as a comma-separated list.

```
/* essential and optional values */
p
{
    box-shadow:
    10px 10px 5px 5px #000, Box-shadow 1
    20px 20px 20px 20px yellow; Box-shadow 2
```

The shadow effects are applied front-to-back: the first shadow is on top and the others are layered behind. Shadows cannot overlay the box itself.



Browser support

CSS3 Box-shadow - CR

Global

91.29% + 0.1% = 91.39%

unprefixed:

91.03%

Method of displaying an inner or outer shadow effect to elements

| Current aligned | Usage relative | Show all | | | | | | | |
|-----------------|----------------|----------|--------|--------|-------|--------------|--------------|----------------------|-----------------------|
| IE | Edge * | Firefox | Chrome | Safari | Opera | iOS Safari * | Opera Mini * | Android * Browser | Chrome for Android |
| | | | | | | | | 4.1 | |
| 8 | | | 43 | | | | | 4.3 | |
| 9 | | 40 | 44 | | | | | 4.4 | |
| 10 | | 41 | 45 | 8 | | 8.4 | | 4.4.4 | |
| 11 | 12 | 42 | 46 | 9 | 32 | 9.1 | 8 | 44 | 46 |
| | 13 | 43 | 47 | | 33 | | | | |
| | | 44 | 48 | | 34 | | | | |
| | | 45 | 49 | | | | | | |



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