BORDER-RADIUS

The CSS3 border-radius property allows you to apply rounder corners to elements without using images.

longhand vs shorthand border-radius

The longhand versions of border-radius are very complicated. It is far easier to define border-radius using shorthand properties only.

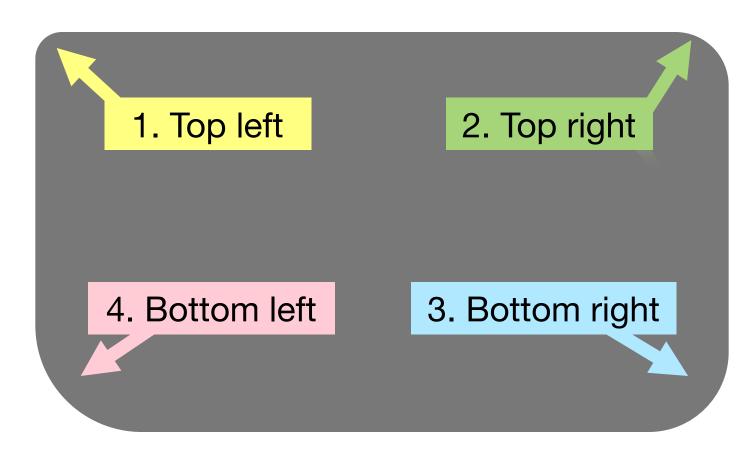
Shorthand border-radius - four values

Shorthand border-radius properties can be defined using **four values** - if the box has a unique value for each corner.

The values are written in clock-wise order: top left corner, top right corner, bottom right corner and bottom left corner.

```
/* border-radius example */
p { border-radius: 10px 20px 30px 40px; }
                     Top left
                           Top right
                               Bottom right
                                      Bottom left
```

Four unique values



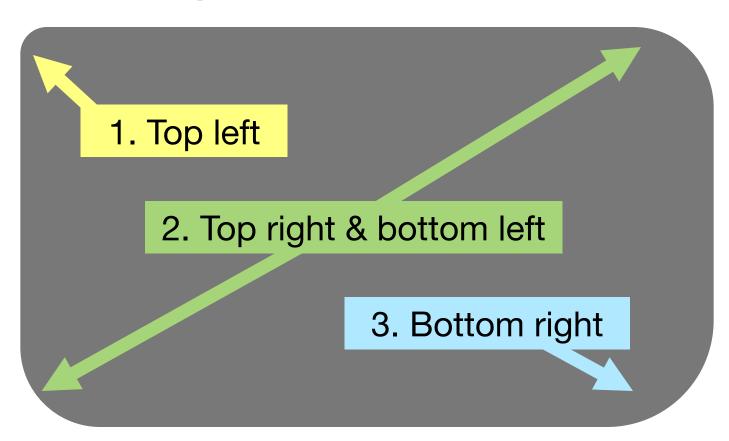
Shorthand border-radius - three values

Shorthand border-radius properties can be defined using three values.

The first value sets the top left, the second value sets both the top right and bottom left, and the third value sets the bottom right.

```
/* border-radius example */
p { border-radius: 10px 20px 30px; }
                      Top left
                      Top right & bottom left
                                 Bottom right
```

Three unique values



Shorthand border-radius - two values

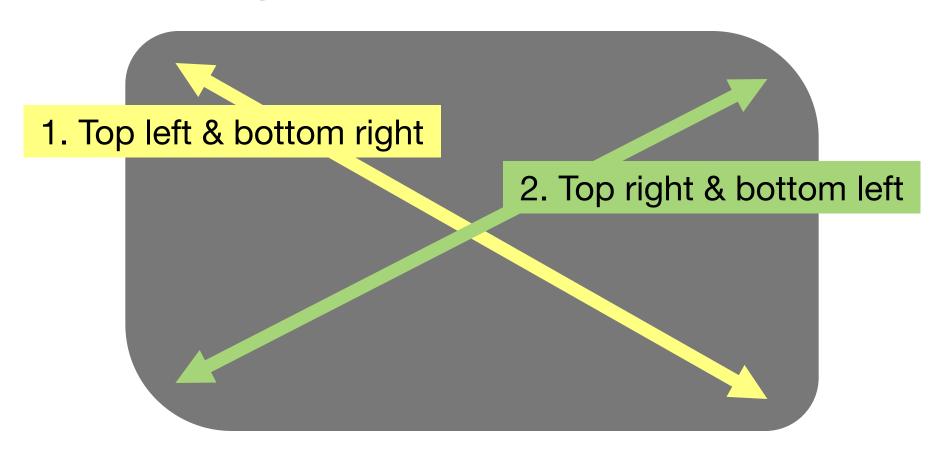
We can use **two values** if the top left & bottom right, and the top right & bottom left are the same.

```
/* border-radius example */
p { border-radius: 10px 20px; }

Top left & bottom right

Top right & bottom left
```

Two unique values



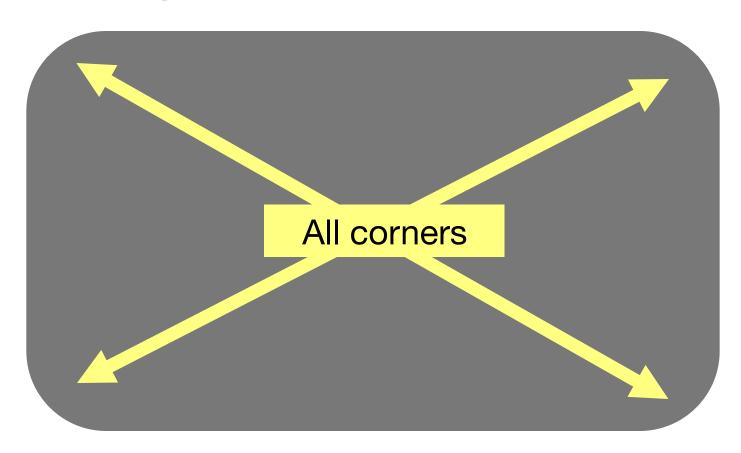
Shorthand border-radius - one values

You can also define **one value** for all corners using a single shorthand property.

```
/* border-radius example */
p { border-radius: 10px; }

All corners
```

One unique value



Border-radius values

Border-radius values can be defined as length values or as percentage values.

```
/* different length values */
p { border-radius: lem; }
    border-radius: 2ex; }
p { border-radius: 3px; }
 { border-radius: 4in; }
p { border-radius: 5cm; }
    border-radius: 6mm; }
    border-radius: 7pt; }
p { border-radius: 8pc; }
```

Percentage values refer to the corresponding dimensions of the border box.

```
/* percentage values */
p { border-radius: 10%; }
```

Different radii

You can also define the horizontal and vertical radii of each corner separately.

Horizontal radii

Vertical radii

Shorthand different radii - four values

The four horizontal values are defined first followed by a "/", then the four vertical values.

```
/* border-radius example */
p
      border-radius:
      5px 3px 8px 9px / 4px 6px 3px 5px;
Top left horizontal
                           Top left vertical
     Top right horizontal
                                 Top right vertical
         Bottom right horizontal
                                     Bottom right vertical
               Bottom left horizontal
                                           Bottom left vertical
```

Shorthand different radii - three values

The three horizontal values are defined first followed by a "/", then the three vertical values.

```
/* border-radius example */
p
      border-radius:
      5px 3px 8px
                        / 4px 6px 3px;
                          Top left vertical
Top left horizontal
     Top right + bottom
                              Top right + bottom
       left horizontal
                                  left vertical
         Bottom right horizontal
                                    Bottom right vertical
```

Shorthand different radii - two values

The two horizontal values are defined first followed by a "/", then the two vertical values.

```
/* border-radius example */
p
     border-radius:
     5px 3px / 4px 5px;
                    Top left + bottom
Top left + bottom
 right horizontal
                      right vertical
                           Top right + bottom
    Top right + bottom
       left horizontal
                              left vertical
```

Shorthand different radii - one values

The horizontal value is defined first followed by a "/", then the vertical value.

```
/* border-radius example */
p
    border-radius: 5px / 6px;
                   All sides
                               All sides
                  horizontal
                               vertical
```

Browser support

CSS3 Border-radius (rounded corners) <u>■</u> - CR

Global

91.41% + 0.01% = 91.42%

unprefixed:

91.29%

Method of making the border corners round

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	40						



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