

# Chapter 30: Filter Property

Value	Description
blur(x)	Blurs the image by x pixels.
brightness(x)	Brightens the image at any value above 1.0 or 100%. Below that, the image will be darkened.
contrast(x)	Provides more contrast to the image at any value above 1.0 or 100%. Below that, the image will get less saturated.
drop-shadow(h, v, x, y, z)	Gives the image a drop-shadow. h and v can have negative values. x, y, and z are optional.
greyscale(x)	Shows the image in greyscale, with a maximum value of 1.0 or 100%.
hue-rotate(x)	Applies a hue-rotation to the image.
invert(x)	Inverts the color of the image with a maximum value of 1.0 or 100%.
opacity(x)	Sets how opaque/transparent the image is with a maximum value of 1.0 or 100%.
saturate(x)	Saturates the image at any value above 1.0 or 100%. Below that, the image will start to de-saturate.
sepia(x)	Converts the image to sepia with a maximum value of 1.0 or 100%.

## Section 30.1: Blur

### HTML

```
<img src='donald-duck.png' alt='Donald Duck' title='Donald Duck' />
```

### CSS

```
img {  
  -webkit-filter: blur(1px);  
  filter: blur(1px);  
}
```

### Result



Makes you wanna rub your glasses.

## Section 30.2: Drop Shadow (use box-shadow instead if

## possible)

### HTML

```
<p>My shadow always follows me.</p>
```

### CSS

```
p {  
  -webkit-filter: drop-shadow(10px 10px 1px green);  
  filter: drop-shadow(10px 10px 1px green);  
}
```

### Result

My shadow always follows me.  
*My shadow always follows me.*

## Section 30.3: Hue Rotate

### HTML

```
<img src='donald-duck.png' alt='Donald Duck' title='Donald Duck' />
```

### CSS

```
img {  
  -webkit-filter: hue-rotate(120deg);  
  filter: hue-rotate(120deg);  
}
```

### Result



## Section 30.4: Multiple Filter Values

To use multiple filters, separate each value with a space.

### HTML

```
<img src='donald-duck.png' alt='Donald Duck' title='Donald Duck' />
```

## CSS

```
img {  
  -webkit-filter: brightness(200%) grayscale(100%) sepia(100%) invert(100%);  
  filter: brightness(200%) grayscale(100%) sepia(100%) invert(100%);  
}
```

## Result



## Section 30.5: Invert Color

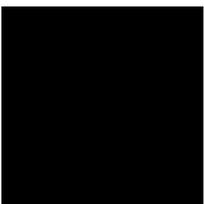
### HTML

```
<div></div>
```

### CSS

```
div {  
  width: 100px;  
  height: 100px;  
  background-color: white;  
  -webkit-filter: invert(100%);  
  filter: invert(100%);  
}
```

### Result



Turns from white to black.