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## Image fun with PHP – part 2

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This post is a demo of what the [imagefilter\(\)](#) PHP function can do for you.

### The Original



### imagefilter() called with different filter constants



Filter: IMG\_FILTER\_BRIGHTNESS

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_BRIGHTNESS, 5);
imagepng($image, 'img_filter_brightness_5.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_BRIGHTNESS

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_BRIGHTNESS, 50);
imagepng($image, 'img_filter_brightness_50.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_BRIGHTNESS

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_BRIGHTNESS, 100);
imagepng($image, 'img_filter_brightness_100.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_GRAYSCALE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagepng($image, 'img_filter_grayscale.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_CONTRAST

Code to reproduce:

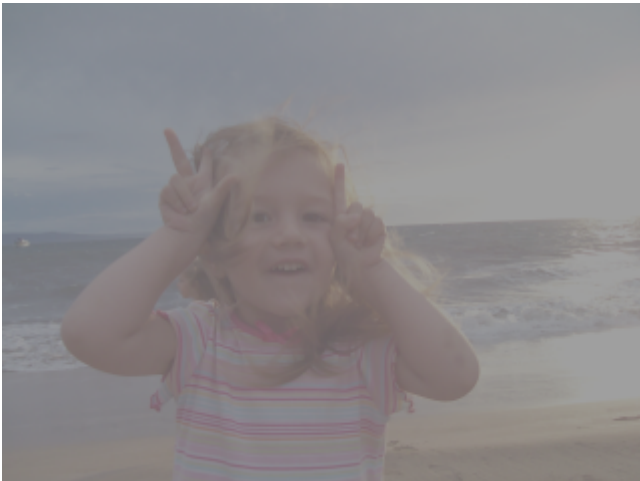
```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_CONTRAST, 5);
imagepng($image, 'img_filter_contrast_5.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_CONTRAST

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_CONTRAST, -40);
imagepng($image, 'img_filter_contrast_-40.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_CONTRAST

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_CONTRAST, 50);
imagepng($image, 'img_filter_contrast_50.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_COLORIZE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_COLORIZE, 100, 0, 0);
imagepng($image, 'img_filter_colorize_100_0_0.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_COLORIZE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_COLORIZE, 0, 100, 0);
imagepng($image, 'img_filter_colorize_0_100_0.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_COLORIZE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_COLORIZE, 0, 0, 100);
imagepng($image, 'img_filter_colorize_0_0_100.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_COLORIZE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_COLORIZE, 100, 100, -100);
imagepng($image, 'img_filter_colorize_100_100_-100.png');
imagedestroy($image);
?>
```





Filter: IMG\_FILTER\_COLORIZE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_COLORIZE, 50, -50, 50);
imagepng($image, 'img_filter_colorize_50_-50_50.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_EDGEDETECT

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_EDGEDETECT);
imagepng($image, 'img_filter_edgedetect.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_EMBOSS

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_EMBOSS);
imagepng($image, 'img_filter_emboss.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_GAUSSIAN\_BLUR

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GAUSSIAN_BLUR);
imagepng($image, 'img_filter_gaussian_blur.png');
imagedestroy($image);
?>
```





Filter: IMG\_FILTER\_SELECTIVE\_BLUR

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_SELECTIVE_BLUR);
imagepng($image, 'img_filter_selective_blur.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_MEAN\_REMOVAL

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_MEAN_REMOVAL);
imagepng($image, 'img_filter_mean_removal.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_SMOOTH

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_SMOOTH, 5);
imagepng($image, 'img_filter_smooth_5.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_SMOOTH

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_SMOOTH, 50);
imagepng($image, 'img_filter_smooth_50.png');
imagedestroy($image);
?>
```



Filter: IMG\_FILTER\_NEGATE

Code to reproduce:

```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_NEGATE);
imagepng($image, 'img_filter_negate.png');
imagedestroy($image);
?>
```

## A lazy way to do sepia

In order to do sepia, first you do grayscale, then colorize. Here are some experiments:



```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagefilter($image, IMG_FILTER_COLORIZE, 100, 50, 0);
imagepng($image, 'sepia_100_50_0.png');
imagedestroy($image);
?>
```



```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagefilter($image, IMG_FILTER_COLORIZE, 100, 70, 50);
imagepng($image, 'sepia_100_70_50.png');
imagedestroy($image);
?>
```



```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagefilter($image, IMG_FILTER_COLORIZE, 90, 60, 30);
imagepng($image, 'sepia_90_60_30.png');
imagedestroy($image);
?>
```



```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagefilter($image, IMG_FILTER_COLORIZE, 60, 60, 0);
imagepng($image, 'sepia_60_60_0.png');
imagedestroy($image);
?>
```



```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagefilter($image, IMG_FILTER_COLORIZE, 90, 90, 0);
imagepng($image, 'sepia_90_90_0.png');
imagedestroy($image);
?>
```



```
<?php
$image = imagecreatefrompng('nathalie.png');
imagefilter($image, IMG_FILTER_GRAYSCALE);
imagefilter($image, IMG_FILTER_COLORIZE, 45, 45, 0);
imagepng($image, 'sepia_45_45_0.png');
imagedestroy($image);
?>
```

You can read about the right way to do [sepia in Wikipedia](#), but I'd say that the fakes above look pretty good too.

You can try with different values for R, G and B, but hear this - the thing about sepia is that it's brownish-yellow.

Brown is something that has more red, little blue and the green exactly in between the red and the blue. So brown examples would be (200, 100, 0) or (150, 100, 50).

Yellow on the other hand is equal red and green and no blue, like (255, 255, 0). So if you want more brownish sepia, use the first pattern when calling the colorize filter.

## About part one

Part one of the [image fun is here](#), it contains code that more or less does the same things, but pixel by pixel, which is very slow, but also works in PHP4.

At the time of writing part one, `imagefilter()` function was probaly only in cvs, not part of the official PHP. `imagefilter()` is PHP5-only.

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