

Pengolahan Citra dengan PHP

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Mengawali...

- Install server XAMPP di platform windows
- Setelah berhasil test dengan memanggil <http://localhost>, akan keluar jendela XAMPP for Windows
- Jika menggunakan XAMPP, pada saat penginstalan default drive penginstalan tidak dirubah, maka tempat penyimpanan file-file PHP diletakkan di **C:\xampp\htdocs**.
- Referensi di :
<http://php.net/manual/en/function.imagefilter.php>

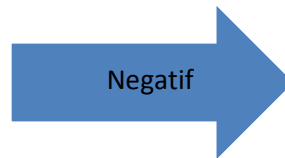
Fungsi imagefilter di PHP

- imagefilter(image asli, tipe filtering, [argumen])
- Untuk tipe filtering yang dapat Anda gunakan adalah:
- - IMG_FILTER_NEGATE, digunakan untuk membuat image negatif
- - IMG_FILTER_GRAYSCALE, mengkonversi ke grayscale
- - IMG_FILTER_BRIGHTNESS, mengatur tingkat brightness
- - IMG_FILTER_CONTRAST, mengatur tingkat kontras
- - IMG_FILTER_COLORIZE, mengatur skala warna RGB
- - IMG_FILTER_EDGEDetect, menghasilkan image dari proses edge detection
- - IMG_FILTER_EMOSS, memberikan efek timbul (emboss)
- - IMG_FILTER_GAUSSIAN_BLUR, memberikan efek blur (Gaussian Blur)
- - IMG_FILTER_SELECTIVE_BLUR, memberikan efek blur (Selective Blur)
- - IMG_FILTER_MEAN_REMOVAL, memberikan efek sketch
- - IMG_FILTER_SMOOTH, memperhalus image
- Dalam hal ini, parameter 'argumen' sifatnya adalah optional.

Membuat citra negatif

```
<?php
```

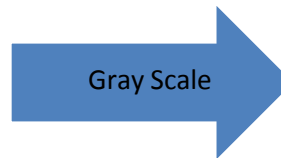
```
header("Content-type: image/jpeg");  
$image =  
imagecreatefromjpeg('bunga.jpg');  
imagefilter($image,  
IMG_FILTER_NEGATE);  
imagejpeg($image); ?>
```



Membuat citra grayscale

```
<?php
```

```
header("Content-type: image/jpeg");  
$image =  
imagecreatefromjpeg('bunga.jpg');  
imagefilter($image,  
IMG_FILTER_GRAYSCALE);  
imagejpeg($image); ?>
```



Mengatur tingkat brightness

```
<?php
```

```
header("Content-type: image/jpeg");  
$image =  
imagecreatefromjpeg('bunga.jpg');  
imagefilter($image,  
IMG_FILTER_BRIGHTNESS, 50);  
imagejpeg($image); ?>
```



Mengatur tingkat contrast

```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_CONTRAST, 10);
```

```
imagejpeg($image); ?>
```



Mengatur skala warna RGB

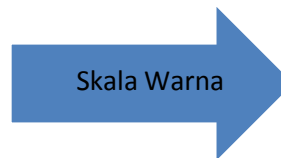
```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_COLORIZE, 10, 100,  
20);
```

```
imagejpeg($image); ?>
```



Citra dari hasil edge detection

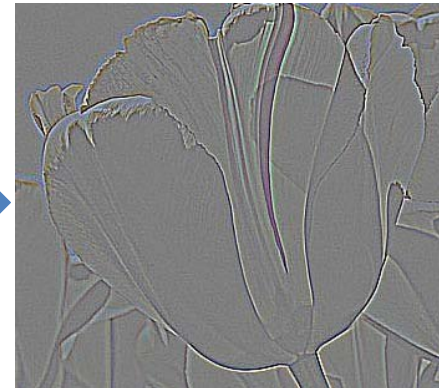
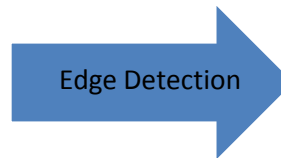
```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_EDGEDETECT);
```

```
imagejpeg($image); ?>
```



Citra dengan efek emboss

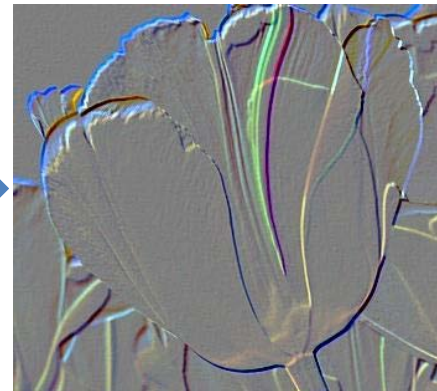
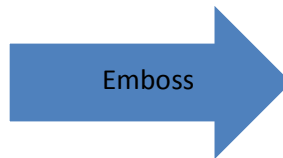
```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_EMOSS);
```

```
imagejpeg($image); ?>
```



Citra dengan efek Gaussian blur

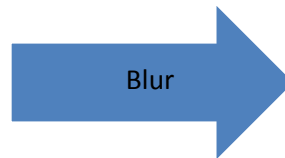
```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_GAUSSIAN_BLUR);
```

```
imagejpeg($image); ?>
```



Citra dengan efek sketch

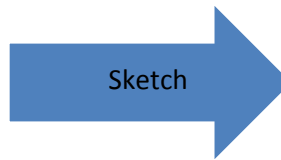
```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_MEAN_REMOVAL);
```

```
imagejpeg($image); ?>
```



Mengatur tingkat kehalusan citra

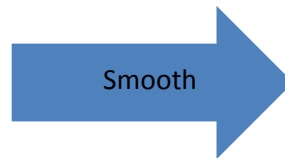
```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_SMOOTH, 25);
```

```
imagejpeg($image); ?>
```



Mengkonversi Citra ke grayscale lalu memberikan efek sketch

```
<?php
```

```
header("Content-type: image/jpeg");
```

```
$image = imagecreatefromjpeg('bunga.jpg');
```

```
imagefilter($image, IMG_FILTER_GRAYSCALE);
```

```
imagefilter($image, IMG_FILTER_MEAN_REMOVAL);
```

```
imagejpeg($image); ?>
```

