write

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Compress image if certain size in PHP

If you are downloading and archiving images majority of the time you can compress them heavily to be able to store more. For reasons such as: never viewing the image again, it was posted with too much size or you do not need to zoom, compressing images makes a lot of sense.

Problem is how can this be done in an automated environment? Because if one image has already been heavily compressed if that gets compressed again it could become worthless.

Compress based on image size

The solution is to compress or degrade quality based on the images original size. Within PHP we can easily get the iamges size in bytes which gets converted to Kilobytes as that is more readable. Now if the image file size is above 1000 Kilobytes which is 1 Megabyte a heavy compress can be applied.

If the file size is something lower such as 800 Kilobytes we can give it a slightly reduced compression value and so forth until a lower limit is reached for when no compression needs to be applied.

Here is a simple and easy to use class:

```php
1.   <?php
2.   class imageComp
3.   {
4.       private $image;
5.
6.       public function setImage($image)//Sets the image to compress
7.       {
8.           if (exif_imagetype($image) == IMAGETYPE_JPEG) {
9.               $this->image = $image;
10.          } else {
11.              throw new Exception("Error not an image");
12.          }
```

```php
13.        }
14.
15.        public function getSize()//Returns image filesize
16.        {
17.            $image = $this->image;
18.            if (exif_imagetype($image) == IMAGETYPE_JPEG) {
19.                return filesize($image) / 1024;//Size as KB
20.            } else {
21.                throw new Exception("Error not an image");
22.            }
23.        }
24.
25.        public function compress()//Filter and compress based on filesi
26.        {
27.            $image = $this->image;
28.            $size = filesize($image) / 1024;//Size as KB
29.            if ($size >= 1000) {//Greater or equal to 1 MB
30.                $img = imagecreatefromjpeg($image);
31.                imagejpeg($img, $image, 34);
32.                return "$image was over 1000 KB";
33.            } elseif ($size >= 800) {//Greater or equal 800 KB
34.                $img = imagecreatefromjpeg($image);
35.                imagejpeg($img, $image, 36);
36.                return "$image was over 800 KB";
37.            } elseif ($size >= 600) {//Greater or equal 600 KB
38.                $img = imagecreatefromjpeg($image);
39.                imagejpeg($img, $image, 38);
40.                return "$image was over 600 KB";
41.            } elseif ($size >= 400) {//Greater or equal 400 KB
42.                $img = imagecreatefromjpeg($image);
43.                imagejpeg($img, $image, 40);
44.                return "$image was over 400 KB";
45.            } else {
46.                return "$image was under 400 KB";
47.            }
48.        }
49.    }
```

Call and use like:

```php
1.    <?php
2.    $comp = new imageComp();
3.    $comp->setImage('image.jpg');//Image to use
4.    echo $comp->compress();
5.    echo $comp->getSize();
```

Do note that imagejpeg() isnt real compression rather a reduction in quality. It would be best to use a framework such as ImageMagick.

Development

How to, PHP, Web Dev