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Resizing images with PHP

Jul 20 The following script will easily allow you to resize images using PHP and the GD library. If you're looking to resize uploaded images or easily generate thumbnails give it a try

Update: Looking to resize transparent PNG's and GIF's? We've updated our original code, take a look at <http://www.white-hat-web-design.co.uk/blog/retaining-transparency-with-php-image-resizing/>

The code

```
1  <?php
2
3  /*
4   * File: SimpleImage.php
5   * Author: Simon Jarvis
6   * Copyright: 2006 Simon Jarvis
7   * Date: 08/11/06
8   * Link: http://www.white-hat-web-design.co.uk/articles/php-image-resizing.php
9   *
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20  *
21  */
22
23
24 class SimpleImage {
25
26     var $image;
27     var $image_type;
28
29     function load($filename) {
30
31         $image_info = getimagesize($filename);
32         $this->image_type = $image_info[2];
33         if( $this->image_type == IMAGETYPE_JPEG ) {
34
35             $this->image = imagecreatefromjpeg($filename);
36         } elseif( $this->image_type == IMAGETYPE_GIF ) {
37
38             $this->image = imagecreatefromgif($filename);
39         } elseif( $this->image_type == IMAGETYPE_PNG ) {
40
41             $this->image = imagecreatefrompng($filename);
42         }
43     }
44     function save($filename, $image_type=IMAGETYPE_JPEG, $compression=75, $permissions=null) {
45
46         if( $image_type == IMAGETYPE_JPEG ) {
47             imagejpeg($this->image,$filename,$compression);
48         } elseif( $image_type == IMAGETYPE_GIF ) {
49
50             imagegif($this->image,$filename);
51         } elseif( $image_type == IMAGETYPE_PNG ) {
52
53             imagepng($this->image,$filename);
54         }
55         if( $permissions != null) {
56
57             chmod($filename,$permissions);
58         }
59     }
60     function output($image_type=IMAGETYPE_JPEG) {
61
62         if( $image_type == IMAGETYPE_JPEG ) {
63             imagejpeg($this->image);
64         } elseif( $image_type == IMAGETYPE_GIF ) {
65
66             imagegif($this->image);
67         } elseif( $image_type == IMAGETYPE_PNG ) {
68
69             imagepng($this->image);
70         }
71     }
72     function getWidth() {
73
74         return imagesx($this->image);
75     }
76     function getHeight() {
77
78         return imagesy($this->image);
79     }
```

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```

    }
    function resizeToHeight($height) {
        $ratio = $height / $this->getHeight();
        $width = $this->getWidth() * $ratio;
        $this->resize($width,$height);
    }

    function resizeToWidth($width) {
        $ratio = $width / $this->getWidth();
        $height = $this->getHeight() * $ratio;
        $this->resize($width,$height);
    }

    function scale($scale) {
        $width = $this->getWidth() * $scale/100;
        $height = $this->getHeight() * $scale/100;
        $this->resize($width,$height);
    }

    function resize($width,$height) {
        $new_image = imagecreatetruecolor($width, $height);
        imagecopyresampled($new_image, $this->image, 0, 0, 0, 0, $width, $height, $this->getWidth(), $this->getHeight());
        $this->image = $new_image;
    }
}
?>

```

Usage

Save the above file as SimpleImage.php and take a look at the following examples of how to use the script.

The first example below will load a file named picture.jpg resize it to 250 pixels wide and 400 pixels high and resave it as picture2.jpg

```

1 <?php
2 include('SimpleImage.php');
3 $image = new SimpleImage();
4 $image->load('picture.jpg');
5 $image->resize(250,400);
6 $image->save('picture2.jpg');
7 ?>

```

If you want to resize to a specified width but keep the dimensions ratio the same then the script can work out the required height for you, just use the resizeToWidth function.

```

1 <?php
2 include('SimpleImage.php');
3 $image = new SimpleImage();
4 $image->load('picture.jpg');
5 $image->resizeToWidth(250);
6 $image->save('picture2.jpg');
7 ?>

```

You may wish to scale an image to a specified percentage like the following which will resize the image to 50% of its original width and height

```

1 <?php
2 include('SimpleImage.php');
3 $image = new SimpleImage();
4 $image->load('picture.jpg');
5 $image->scale(50);
6 $image->save('picture2.jpg');
7 ?>

```

You can of course do more than one thing at once. The following example will create two new images with heights of 200 pixels and 500 pixels

```

1 <?php
2 include('SimpleImage.php');
3 $image = new SimpleImage();
4 $image->load('picture.jpg');
5 $image->resizeToHeight(500);
6 $image->save('picture2.jpg');
7 $image->resizeToHeight(200);
8 $image->save('picture3.jpg');
9 ?>

```

The output function lets you output the image straight to the browser without having to save the file. Its useful for on the fly thumbnail generation

```

1 <?php
2 header('Content-Type: image/jpeg');
3 include('SimpleImage.php');
4 $image = new SimpleImage();
5 $image->load('picture.jpg');
6 $image->resizeToWidth(150);
7 $image->output();
8 ?>

```

The following example will resize and save an image which has been uploaded via a form

```
1 <?php
2     if( isset($_POST['submit']) ) {
3
4         include('SimpleImage.php');
5         $image = new SimpleImage();
6         $image->load($_FILES['uploaded_image']['tmp_name']);
7         $image->resizeToWidth(150);
8         $image->output();
9     } else {
10
11 ?>
12
13 <form action="upload.php" method="post" enctype="multipart/form-data">
14     <input type="file" name="uploaded_image" />
15
16     <input type="submit" name="submit" value="Upload" />
17
18 </form>
19
20 <?php
21 }
22 ?>
```

Further Information

This script will eventually be developed further to include functions for easily sharpening, blurring, cropping, brightening and colouring images.

If you have any problems using this script please [email us](#).

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