# Implementing image resizing, cropping, and watermarking in CodeIgniter

**Topics :** Codeigniter
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To implement image resizing, cropping, and watermarking in CodeIgniter, you can utilize CodeIgniter's Image Manipulation Library. Below is a step-by-step guide on how to achieve each of these tasks:

### 1. Image Resizing:

```
$config['image_library'] = 'gd2'; // Choose your preferred image library (e.g., 'gd2', 'imagemagick', 'gd')
$config['source_image'] = '/path/to/source/image.jpg'; // Path to the source image
$config['create_thumb'] = TRUE; // Create a thumbnail
$config['maintain_ratio'] = TRUE; // Maintain aspect ratio
$config['width'] = 200; // New width
$config['height'] = 200; // New height

$this->load->library('image_lib');
$this->image_lib->initialize($config);

if (!$this->image_lib->resize()) {
    echo $this->image_lib->display_errors();
}
```

### 2. Image Cropping:

```
$config['image_library'] = 'gd2';
$config['source_image'] = '/path/to/source/image.jpg';
$config['maintain_ratio'] = FALSE; // Disable maintaining aspect ratio
$config['width'] = 200; // New width
$config['height'] = 200; // New height
$config['x_axis'] = 50; // X-axis coordinate for cropping
$config['y_axis'] = 50; // Y-axis coordinate for cropping

$this->load->library('image_lib');
$this->image_lib->initialize($config);
```

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```
if (!$this->image_lib->crop()) {
    echo $this->image_lib->display_errors();
}
```

### 3. Image Watermarking:

```
$config['source_image'] = '/path/to/source/image.jpg';
$config['wm_type'] = 'overlay'; // Type of watermark
$config['wm_overlay_path'] = '/path/to/watermark.png'; // Path to the
watermark image
$config['wm_vrt_alignment'] = 'bottom'; // Vertical alignment
$config['wm_hor_alignment'] = 'right'; // Horizontal alignment
$config['wm_padding'] = '20'; // Padding
$config['wm_opacity'] = 50; // Watermark opacity

$this->load->library('image_lib');
$this->image_lib->initialize($config);

if (!$this->image_lib->watermark()) {
    echo $this->image_lib->display_errors();
}
```

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