

Class 4

Serve-Side Validations

**BY:**

**BRUNO ANGELO MEDEIROS**bruno.medeiros@sc.senai.br

# IMAGES

## EXTENSION

The **getimagesize()** should be the most definitive way of working out whether the file is an image. To check if a file is an image or not, you can use the function below:

1. **function** is\_image($path)
2. {
3. $image = getimagesize($path);
4. $image\_type = $image[2];
6. **if**(in\_array($image\_type , **array**(IMAGETYPE\_GIF , IMAGETYPE\_JPEG ,IMAGETYPE\_PNG , IMAGETYPE\_BMP)))
7. {
8. **return** true;
9. }
10. **return** false;
11. }

The function provides a lot of information about an image file, including its type.

## SIZE

If we need to validate the maximum or minimum size the uploaded image has, we can use the following code:

1. **if** ($\_FILES["fileToUpload"]["size"] > 1024\*1024\*2) { // 2MB
2. echo "Sorry, your file is too large.";
3. }

## DIMENSION

To verify the image width and height we can use:

1. list($width, $height) = getimagesize('path\_to\_image');

# JSON

## Structure

The function **json\_last\_error** returns the last error occurred during the JSON encoding and decoding. So the way to check the valid JSON is:

1. $result = json\_decode($json);
2. **if** (json\_last\_error() === JSON\_ERROR\_NONE) {
3. // JSON is valid
4. }
5. // OR this is equivalent
6. **if** (json\_last\_error() === 0) {
7. // JSON is valid
8. }

# FILES

An example PHP Fileinfo function, to validate Office and other documents is:

1. $finfo = finfo\_open(FILEINFO\_MIME\_TYPE);
2. $mtype = finfo\_file( $finfo, $filename );
3. finfo\_close($finfo);

# FORMS

## EMAIL

We use **filter\_var()** mostly when we need to validate email. For Example:

1. **if** (**empty**($\_POST["email"])) {
2. $emailErr = "Email is required";
3. } **else** {
4. $email = $\_POST["email"];
5. // check if e-mail address is well-formed
6. **if** (!filter\_var($email, FILTER\_VALIDATE\_EMAIL)) {
7. $emailErr = "$email is not a valid email address";
8. }
9. }

## EMPTY INPUTS

To validate if an input is empty we can use something like this:

1. **if** (**empty**($\_POST["name"])) {
2. $nameErr = "Name is required";
3. } **else** {
4. $name = $\_POST["name"];
5. // check if name only contains letters and whitespace
6. **if** (!preg\_match("/^[a-zA-Z ]\*$/",$name)) {
7. $nameErr = "Only letters and white space allowed";
8. }
9. }

## NUMBERS

We use **filter\_var** also to validate integer numbers.

1. **if** (**empty**($\_POST["number"])) {
2. $numberErr = "Number is required";
3. } **else** {
4. $number = $\_POST["number"];
5. // check if number is integer
6. **if** (!filter\_var($number, FILTER\_VALIDATE\_INT)) {
7. $numberErr  = "$number is not a integer number.";
8. }
9. }

## DATE

We use this function to check if the date is in the correct format.

1. function validateDate($date)
2. {
3. $d = DateTime::createFromFormat('Y-m-d', $date);
4. **return** $d && $d->format('Y-m-d') === $date;
5. }

Note:

* Y is to represent a full year with 4 digits.
* m is a numeric representation of one month, with the zero to the left.
* d is a day of the month, made of 2 digits with the zero to the left.