

HTML

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php.ini

php

php

php -m

<?php
?>



round(x,prec)
x:prec



ceil(x)



floor(x)



```
;
upload_max_filesize = 50M

; POST
post_max_size = 200M

;
memory_limit = 512M
```

> POST >

```
; PHP [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  
max_input_time = 600
```

php config

```
;OPcache[ ]opcode[ ]MB[ ]
opcache.memory_consumption = 256
```

```

;[]PHP[]
;[]PHP[]
;[] 200[] PHP 5.5.6 [] 100000[]
;PHP 5.5.6 [] 1000000[]200[]1000000[]
;(default "2000")

opcache.max_accelerated_files = 4000

```

```

;[4]OPcache[] opcache.revalidate_freq [8]timestamp
;[8]
;[4]/[8]"1"[8]"0"

```

```

;(default "1")
opcache.validate_timestamps = 1

;[ ]
;[ ]opcache[ ]
;[ ]PHP[ ]opcode[ ]
;["0"][ ]PHP[ ]
;[ ]stat[ ]stat[ ]
;[ ]/O[ ]
;[ ]CPU[ ]CPU[ ]
;[ ]"0"[ ]
;(default "2")
opcache.revalidate_freq = 60

;[ ]
;Zend [ ]
;[ ]
;[ ]PHP 7.2.0[ ]PHP[ ]
;(default "0")
opcache.fast_shutdown = 1

;CLI[ ]PHP[ ]OPcache[ ] PHP 7.1.2 [ ]
opcache.enable_cli = 1

;[ ]OPcache[ ]
;[ ]
;(default "1")
opcache.use_cwd = 0

opcache.max_file_size = 0

```

PHP (memory_limit)

PHP memory_limit

php.ini

```
memory_limit = 256M
```

.htaccess

```
php_value memory_limit 512M
```

memory_limit

```
$memory_limit = ini_get('memory_limit');  
echo "Memory Limit : " . $memory_limit . "\n";
```

memory_limit

```
ini_set('memory_limit', '4GB');
```

memory limit

```
$memory_limit = ini_get('memory_limit');  
echo "Memory Limit : " . $memory_limit . "\n";
```

phpinfo

```
<?php  
phpinfo();
```

php

```
<?php  
// PHP ...  
// PHP ...  
?>
```

```
<?php  
/*  
... PHP  
... PHP  
... PHP  
*/  
?>
```

```
<font size="1" color="blue"> 1 </font><br>
```

```
<a href="/html/image-img-tag.html"></a> Fooish  
<a href="#" style="color:red;" target="" rel=""></a>
```

HTML CSS 基礎

```
<style>
a {
  color:green;
}
</style>

<a href="#">[ ]</a>
```

```
<table backgroun="" border"1" width="" height="" align="center" valign=""><tr><td align="" colspan=""
rowspan="">
```

```
<DIV style="background-color:#C7FF91;width:300px;height:100px;text-align:center;line-height:100px;">
[ ]
</DIV>
```

<a> 属性 (attributes)

href
[] URL []target[]
target
target []
_self: []
_blank: []
_parent: []
_top: []
frame: []
[]
rel[]
nofollow[]
external[]target="_blank"[]_blank[]xhtml[]
noopener[]target="_blank"[]window.opener.location = newURL[]
noreferrer[]noopener[]ex
[]noreferrer[]noopener[]SEO[]

HTML

HTML

```
<a href="#some-section-id">[ ]</a>
```

id="some-section-id" HTML

```
<div id="some-section-id">
  hello
</div>
```

```
<a href="https://example.com/" target="_blank">
  
</a>
```

mailto:

```
<a href="mailto:"></a>
```

tel: RFC 3966

```
<a href="#" style="color:red;"></a>
<a href="tel:"></a>
```

```
<marquee></marquee>
```

```
direction="up|down|left|right
align="top|middle|bottom
scrollamount="|
height="|
width="|
behavior="| alternate| slide
bgcolor="|
Loop="|
Behavior"| "Scroll"|"Slide"|"Alternate"

"
scrollldelay="0"

&nbsp;(&ensp;&emsp;
onMouseOver="this.stop()" onMouseOut="this.start()"
hspace=""
vspace=""

&nbsp;
(space key)
&ensp;
```

□□□□□□□□ 1/2 □□□□
 
□□□□□□□□ 1 □□□□

□□□□

□ **date()** □□□ **PHP** □□□□
□ **strftime()** □□□ **PHP** □□□□
□ **DateTime** □□□ **PHP** □□□□

```
<?php
$date = date("d-m-Y");
echo "The current date is $date.";
echo "\n";
$year = date("Y");
echo "The current year is $year.";
echo "\n";
$year2 = date("y");
echo "The current year in two digits is $year2.";
?>
```

The current date is 20-04-2020.
The current year is 2020.
The current year in two digits is 20.

```
<?php
$date = strftime("%d-%m-%Y");
echo "The current date is $date.";
echo "\n";
$year = strftime("%Y");
echo "The current year is $year.";
echo "\n";
$year2 = strftime("%y");
echo "The current year in two digits is $year2.";
?>
```

The current date is 20-04-2020.
The current year is 2020.
The current year in two digits is 20.

```
<?php
$Object = new DateTime();
$Date = $Object->format("d-m-Y");
echo "The current date is $Date.";
echo "\n";
$Year = $Object->format("Y");
echo "The current year is $Year.";
echo "\n";
$Year2 = $Object->format("y");
echo "The current year in two digits is $Year2.";
?>
```

The current date is 20-04-2020.
The current year is 2020.
The current year in two digits is 20.

```


```

```
$L = new DateTime( '2020-02-01' );
echo $L->format( 'Y-m-t' );
```

PHP 5.3 DateTime() TimeInterval()

```


```

PHP >5.3

```
$firstDate = new DateTime("2019-01-01");
$secondDate = new DateTime("2020-03-04");
$intvl = $firstDate->diff($secondDate);
```

```
echo $intvl->y . " year, " . $intvl->m." months and ".$intvl->d." day";
echo "<br>";
// Total amount of days
```

```
echo $intvl->days . " days ";
```

```
//output: 1 year, 2 months and 1 day
//      428 days
```

```


```

```
date($format, $timestamp);
```

```
<?php
$date = date('d-m-Y H:i:s', 1565600000);
echo "The date is $date.";
?>
```

d-m-Y - -##### H:i:s - #####
 #####The date and time are 12-08-2019 08:53:20.

\$dateTimeObject->setTimestamp(\$timestamp);

#####

```
<?php
$date = new DateTime();
$date->setTimestamp(1565600000);
$variable = $date->format('U = d-m-Y H:i:s');
echo "The date and time is $variable.";
?>
```

#####The date and time are 1565600000 = 12-08-2019 08:53:20.

DateTime::createFromFormat(\$format, \$time, \$timezone);

\$format ##### \$time ##### \$timezone

```
<?php
// Calling the createFromFormat() function
$datetime = DateTime::createFromFormat('U', '1565600000');
// Getting the new formatted datetime
$date= $datetime->format('d-m-Y H:i:s');
echo "The date and time is $date.";
?>
```

d-m-Y H:i:s

#####The date and time are 12-08-2019 08:53:20.

PHP sprintf()

sprintf(format,arg1,arg2,arg++)

%% - ██████
%b - ████
%c - █ ASCII ███
%d - ██████
%e - ███████ 1.5e+3█
%u - ██████
%f - ███(local settings aware)
%F - ███(not local settings aware)
%o - ████
%s - ███
%x - ██████████
%X - ██████████

1

```
<?php
$str = "Hello";
$number = 123;
$txt = sprintf("%s world. Day number %u",$str,$number);
echo $txt;
?>
```

███Hello world. Day number 123

2

```
<?php
$number = 123;
$txt = sprintf("%f",$number);
echo $txt;
?>
```

███123.000000

3

```
<?php
$number = 123;
$txt = sprintf("With 2 decimals: %1$.2f<br />With no decimals: %1$u",$number);
echo $txt;
?>
```

With 2 decimals: 123.00

With no decimals: 123

php.ini display_errors = on

span

```
<p align="center"></p>
```

```
<p>My mother has <span class="highlight">blue</span> eyes.</p>
```

align="right left center

```
<table style="border:3px #cccccc solid;" cellpadding="10" border='1'>
<tr><td></td><td></td></tr>
<tr><td></td><td></td></tr>
</table>
```

```
<table style="border:3px #FFD382 dashed;" cellpadding="10" border='1'>
<tr><td></td><td></td></tr>
<tr><td></td><td></td></tr>
</table>
```

```
<table style="border:8px #FFD382 groove;" cellpadding="10" border='0'>
<tr><td></td><td></td></tr>
<tr><td></td><td></td></tr>
</table>
```

border-top ←

border-right ←

border-bottom ←

border-left ←

border-color:

border-radius: 10px 20px 30px 40px;

border-style style

none()

dotted

dashed

solid
double
groove
ridge
inset

[illegible]

```
<script type="text/javascript">

function parseLink(){

    var tagA = document.getElementsByTagName( "a" );

    re = new RegExp( "^(" + document.domain + ")(javascript:)", "i" );

    for( var i=0; i < tagA.length; i++ ){

        if( !tagA[i].href.match( re ) ){ tagA[i].target = "_blank"; }

    }

}

</script>
```

bodyonload

```
<body onload="parseLink();">
```

```
[]java[]head[ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]2
```

```
<script type='text/javascript'>
window.onload = function() {
    var links = document.links;
    for (var i = 0, linksLength = links.length; i < linksLength; i++) {
        if (links[i].hostname != window.location.hostname) {
            links[i].target = '_blank';
        }
    }
}
</script>
```

1[][][][][][][][]html[][]form[][][][][][][]

```
enctype='multipart/form-data'
```

2 form file

```
<input type=hidden name='MAX_FILE_SIZE' value='value'>
```

```
#####
```

```
1#####$_FILES#####5#####
$_FILES['userfile']['name']-----#####
$_FILES['userfile']['type']-----## MIME ##
$_FILES['userfile']['size']-----#####
$_FILES['userfile']['tmp_name']-----#####
$_FILES['userfile']['error']-----#####
```

```
2##$_FILES['userfile']['error']#####
0-----##### size0
1-----##### php.ini upload_max_filesize #####
2-----##### HTML ## MAX_FILE_SIZE #####
3-----#####
4-----##### file#####
```

```
#####
```

```
<input accept=".pdf,.xls" type="file" /> #####
<input accept="image/*" type="file" /> ######jpggifpng
<input accept="text/html" type="file" /> ######htm html
<input accept="video/*" type="file" /> ######.avi.mp4.mpg #####
<input accept="audio/*" type="file" /> ######.mp3.wav #####
<input accept="image/*,.pdf,.xls" type="file" /> #####
```

```
#####
```

```
#####1
```

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title></title>
</head>

<body>
<form action="upload.php" method="post" enctype="multipart/form-data">
<input type="file" name="file" id="file" />
<input type="submit" name="submit" value="submit" />
```

```
</form>
</body>
</html>
```

upload.php

```
<?php
if ($_FILES["file"]["error"] == UPLOAD_ERR_OK) {

    $html = "Upload(name): " . $_FILES["file"]["name"] . "<br />";
    $html .= "Type: " . $_FILES["file"]["type"] . "<br />";
    $html .= "Size: " . ($_FILES["file"]["size"] / 1024) . " Kb<br />";
    $html .= "Stored in: " . $_FILES["file"]["tmp_name"] . "<br />";

    //
    $moveRes = move_uploaded_file($_FILES["file"]["tmp_name"],
    "/path_for_uploaded_file");

    $html .= "Uploaded file is moved to /path_for_uploaded_file". "<br />";
    echo $html;
}
else {
    echo "Error: " . $_FILES["file"]["error"] . "<br />";
}

?>
```

2

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title> PHP - function</title>
</head>
<body>

<form action="doAction.php" method="post" enctype="multipart/form-data">
    <!-- -->
    <input type="hidden" name="MAX_FILE_SIZE" value="2097152">
```

```

<!-- accept [][][][] -->
<input type="file" name="myFile" accept="image/jpeg,image/jpg,image/gif,image/png">

<input type="submit" value="[]">
</form>

</body>
</html>

```

doAction.php

```

<?php
/**
 * []
 */
// []
header('content-type:text/html;charset=utf-8');
// [] PHP [] function
include_once 'upload.func.php';
// [] HTTP []
$fileInfo = $_FILES['myFile'];
// [] function
$newName = uploadFile($fileInfo);

print_r($newName);

```

2(upload.func.php)

```

<?php
/**
 * string uploadFile(array $files, array $allowExt, number $maxSize, boolean $flag, string $uploadPath) [] PHP []
 *
 * @param files [] $_FILES [] HTTP []
 * @param allowExt [] 'jpeg', 'jpg', 'gif', 'png'
 * @param maxSize [] 2097152[]2M * 1024 * 1024 = 2097152byte[]
 * @param flag []true[]false []
 * @param uploadPath [] uploads
 *
 * @return [] + md5 [] + []

```

```

*/
function uploadFile($fileInfo, $allowExt = array('jpeg', 'jpg', 'gif', 'png'), $maxSize = 2097152, $flag = true,
$uploadPath = 'uploads') {
    // 检查文件扩展名
    $mes = '';

    // 获取文件扩展名
    $ext = pathinfo($fileInfo['name'], PATHINFO_EXTENSION);

    // 生成唯一文件名
    $uniName = md5(uniqid(microtime(true), true)) . '.' . $ext;
    $destination = $uploadPath . '/' . $uniName;

    // 检查文件是否上传成功
    if ($fileInfo['error'] > 0) {
        // 检查错误原因
        switch ($fileInfo['error']) {
            case 1:
                $mes = '上传文件时，php.ini 中的 upload_max_filesize 设置太小';
                break;
            case 2:
                $mes = '上传文件时，HTML 表单中的 MAX_FILE_SIZE 设置太小';
                break;
            case 3:
                $mes = '上传文件时，文件已存在';
                break;
            case 4:
                $mes = '上传文件时，文件太大';
                break;
            case 6:
                $mes = '上传文件时，文件类型不被允许';
                break;
            case 7:
                $mes = '上传文件时，文件路径不存在';
                break;
            case 8:
                $mes = '上传文件时，PHP 版本太低';
                break;
        }
    }
}

```

```

        exit($mes);
    }

    // 检查 HTTP POST 数据
    if (!is_uploaded_file($fileInfo['tmp_name']))
        exit('无效的 HTTP POST 数据');

    // 检查文件扩展名
    if (!is_array($allowExt)) // 检查扩展名
        exit('无效的扩展名 array');
    else {
        if (!in_array($ext, $allowExt)) // 检查扩展名
            exit('无效的扩展名');
    }

    // 检查文件大小
    if ($fileInfo['size'] > $maxSize)
        exit('文件大小超过限制');

    // 检查文件类型
    if ($flag && !@getimagesize($fileInfo['tmp_name']))
        exit('无效的文件类型');

    // 检查上传目录
    if (!file_exists($uploadPath))
        mkdir($uploadPath, 0777, true); // 创建目录

    // 移动文件
    if (!@move_uploaded_file($fileInfo['tmp_name'], $destination)) // 移动文件
        exit('移动失败');

    return $destination;
}

```

文件上传(HTML)

```

<!DOCTYPE html>

<html>

```

```

<head>
    <meta charset="UTF-8">
    <title>PHP 파일 업로드 - 파일 업로드 function</title>
</head>
<body>

<form action="doAction.php" method="post" enctype="multipart/form-data">
    <!-- 파일 크기 제한 -->
    <input type="hidden" name="MAX_FILE_SIZE" value="2097152">

    <!-- accept 속성 지정 name 지정 array 지정 -->
    <input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">
    <input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">
    <input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">
    <input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">

    <!-- HTML5 파일 업로드 기능 지원 multiple 지정 -->
    <!-- <input type="file" name="myFile[]" id="" accept="image/jpeg,image/jpg,image/gif,image/png"
multiple> -->

    <input type="submit" value="업로드">
</form>

</body>
</html>

```

파일 업로드 doAction.php

```

<?php
/**
 * 파일 업로드
 */
// 파일 업로드
header('content-type:text/html;charset=utf-8');
// PHP 파일 업로드 function
include_once 'upload.func.php';

```

```

// 数组 array
$files = getFiles();

// 遍历
foreach ($files as $fileInfo) {
    // 上传函数
    $res = uploadFile($fileInfo);

    // 输出
    echo $res['mes'] . '<br>';

    // 上传文件数组 array
    if (!empty($res['dest'])) {
        $uploadFiles[] = $res['dest'];
    }
}

print_r($uploadFiles);

```

upload.func.php

```

<?php
/**
 * array getFiles() 数组 array
 *
 * @return 数组 array
 */function getFiles() {
    $i = 0; // 数组

    foreach ($_FILES as $file) {
        // string
        if (is_string($file['name'])) {
            $files[$i] = $file;
            $i++;
        }
        // array
        elseif (is_array($file['name'])) {
            foreach ($file['name'] as $key => $value) {
                $files[$i]['name'] = $file['name'][$key];
                $files[$i]['type'] = $file['type'][$key];
            }
        }
    }
}

```

```

        $files[$i]['tmp_name'] = $file['tmp_name'][$key];
        $files[$i]['error'] = $file['error'][$key];
        $files[$i]['size'] = $file['size'][$key];
        $i++;
    }
}

return $files;
}

/**
 * string uploadFile(array $files, array $allowExt, number $maxSize, boolean $flag, string $uploadPath) PHP
 *
 * @param files [] $_FILES [] HTTP
 * @param allowExt [] 'jpeg', 'jpg', 'gif', 'png'
 * @param maxSize [] 2097152 2M * 1024 * 1024 = 2097152byte
 * @param flag [] true false
 * @param uploadPath [] uploads
 *
 * @return [] + md5 [] + []
 */function uploadFile($fileInfo, $allowExt = array('jpeg', 'jpg', 'gif', 'png'), $maxSize = 2097152, $flag = true,
$uploadPath = 'uploads') {
    //
    $res = array();

    //
    $ext = pathinfo($fileInfo['name'], PATHINFO_EXTENSION);

    //
    $uniName = md5(uniqid(microtime(true), true)) . '.' . $ext;
    $destination = $uploadPath . '/' . $uniName;

    //
    if ($fileInfo['error'] > 0) {
        //
        switch ($fileInfo['error']) {
            case 1:
                $res['mes'] = $fileInfo['name'] . ' [] php.ini [] upload_max_filesize []';
                break;

```

```

case 2:
    $res['mes'] = $fileInfo['name'] . '  HTML  MAX_FILE_SIZE  ';
    break;
case 3:
    $res['mes'] = $fileInfo['name'] . '  ';
    break;
case 4:
    $res['mes'] = $fileInfo['name'] . '  ';
    break;
case 6:
    $res['mes'] = $fileInfo['name'] . '  ';
    break;
case 7:
    $res['mes'] = $fileInfo['name'] . '  ';
    break;
case 8:
    $res['mes'] = $fileInfo['name'] . '  PHP  ';
    break;
}

```

```

//  return 
return $res;
}

```

```

//  HTTP POST 
if (!is_uploaded_file($fileInfo['tmp_name']))
    $res['mes'] = $fileInfo['name'] . '  HTTP POST  ';

// 
if (!is_array($allowExt)) // 
    $res['mes'] = $fileInfo['name'] . '  array';
else {
    if (!in_array($ext, $allowExt)) // 
        $res['mes'] = $fileInfo['name'] . '  ';
}

// 
if ($fileInfo['size'] > $maxSize)
    $res['mes'] = $fileInfo['name'] . '  ';

```

```

// 检查文件是否存在
if ($flag && !@getimagesize($fileInfo['tmp_name']))
    $res['mes'] = $fileInfo['name'] . ' 文件不存在';

// array 返回信息 return 信息
if (!empty($res))
    return $res;
else {
    // 检查目录是否存在
    if (!file_exists($uploadPath))
        mkdir($uploadPath, 0777, true);

    // 检查文件是否存在
    if (!@move_uploaded_file($fileInfo['tmp_name'], $destination)) // 文件移动失败
        $res['mes'] = $fileInfo['name'] . ' 文件移动失败';

    $res['mes'] = $fileInfo['name'] . ' 文件不存在';
    $res['dest'] = $destination;

    return $res;
}
}

```

文件上传

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="UTF-8">
    <title>PHP 文件上传 - 文件上传 class</title>
</head>
<body>

<form action="doAction.php" method="post" enctype="multipart/form-data">
    <!-- 隐藏文件 -->
    <input type="hidden" name="MAX_FILE_SIZE" value="2097152">

    <!-- accept 文件类型 name 文件名称 array -->
    <input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">

```

```

<input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">

<input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">

<input type="file" name="myFile[]" accept="image/jpeg,image/jpg,image/gif,image/png" style="display:
block;margin-bottom: 5px;">


<!-- 5  multiple -->

<!-- <input type="file" name="myFile[]" id="" accept="image/jpeg,image/jpg,image/gif,image/png"
multiple> -->


<input type="submit" value="">
</form>


</body>
</html>

```

doAction.php)

```

<?php
/**
 * 
 */
// 
header('content-type:text/html;charset=utf-8');
// PHP class
include_once 'upload.class.php';

$upload = new Upload();
$upload->callUploadFile();

echo $upload->getDestination(); // 

```

upload.class.php

```

<?php
/**
 * 
 *
 * @author smalljacky

```

```

* @version 1.0
*/
class Upload
{
    /**
     * ██████████
     *
     * @var array
     */ private $allowMIME;

    /**
     * ████████
     *
     * @var array
     */ private $allowExt;

    /**
     * ████████
     *
     * @var int
     */ private $maxSize;

    /**
     * ████████████████████████
     *
     * @var boolean
     */ private $flag;

    /**
     * ████████
     *
     * @var string
     */ private $uploadPath;

    /**
     * $_FILES █████ HTTP █████
     *
     * @var array
     */ private $fileInfo;

```

```

/**
 * █████
 *
 * @var array
 */ private $res;

/**
 * ███████
 *
 * @var array
 */ private $uploadFiles;

/**
 * █████
 *
 * @var string
 */ private $ext;

/**
 * █████
 *
 * @param array $allowMIME
 * @param array $allowExt
 * @param int $maxSize
 * @param boolean $flag
 * @param string $uploadPath
 */ public function __construct(array $allowMIME = array('image/jpeg', 'image/png', 'image/gif'), array
$allowExt = array('jpeg', 'jpg', 'gif', 'png'), $maxSize = 2097152, $flag = true, $uploadPath = 'uploads')
{
    $this->fileInfo = $this->getFiles();
    $this->allowMIME = $allowMIME;
    $this->allowExt = $allowExt;
    $this->maxSize = $maxSize;
    $this->flag = $flag;
    $this->uploadPath = $uploadPath;
}

/**
 * █████████ array
 *

```

```

* @return void
*/ public function callUploadFile()
{
    $res = "";

    foreach ($this->fileInfo as $file) {
        $res = $this->uploadFile($file);
        $this->showMessage(); // []

        if (!empty($this->res['dest'])) {
            $this->uploadFiles[] = $res['dest'];
        }

        $this->res = array(); // []
    }
}

/**
 * []
 *
 * @return array
 */ public function getDestination()
{
    if (!empty($this->uploadFiles)) {
        print_r($this->uploadFiles);
    }
}

/**
 * [] array
 *
 * @return array
 */ protected function getFiles()
{
    $i = 0; // [] array []

    foreach ($_FILES as $file) {
        // string []
        if (is_string($file['name'])) {
            $files[$i] = $file;

```

```

        $i++;
    }
    // array []
    elseif (is_array($file['name'])) {
        foreach ($file['name'] as $key => $value) {
            $files[$i]['name'] = $file['name'][$key];
            $files[$i]['type'] = $file['type'][$key];
            $files[$i]['tmp_name'] = $file['tmp_name'][$key];
            $files[$i]['error'] = $file['error'][$key];
            $files[$i]['size'] = $file['size'][$key];
            $i++;
        }
    }
    return $files;
}
}

```

```

/**
 * [] + md5 [] + []
 *
 * @return array
 */ private function uploadFile($file)
{
    $uniName = "";
    $destination = "";

```

```

        if ($this->checkError($file) && $this->checkHttpPost($file) && $this->checkMIME($file) && $this->checkExt($file) && $this->checkSize($file) && $this->checkTrueImg($file)) {
            $this->checkUploadPath();
            $uniName = $this->getUniName();
            $destination = $this->uploadPath . '/' . $uniName . '.' . $this->ext;

            if (!@move_uploaded_file($file['tmp_name'], $destination)) {
                $this->res['error'] = $file['name'] . '[]';
            } else {
                $this->res['succ'] = $file['name'] . '[]';
                $this->res['dest'] = $destination;
            }
        }
    }
    return $this->res;

```

```

}

/**
 * 检查文件上传是否成功
 *
 * @param array $files 上传的文件数组
 * @return boolean
 */ protected function checkError($file)
{
    if ($file['error'] > 0) {
        switch ($file['error']) {
            case 1:
                $this->res['error'] = $file['name'] . ' 文件大小超过 php.ini 中的 upload_max_filesize 限制';
                break;
            case 2:
                $this->res['error'] = $file['name'] . ' 文件类型不符合 HTML 中的 MAX_FILE_SIZE 限制';
                break;
            case 3:
                $this->res['error'] = $file['name'] . ' 文件被部分上传';
                break;
            case 4:
                $this->res['error'] = $file['name'] . ' 文件未上传';
                break;
            case 6:
                $this->res['error'] = $file['name'] . ' 文件已存在';
                break;
            case 7:
                $this->res['error'] = $file['name'] . ' 文件目录不存在';
                break;
            case 8:
                $this->res['error'] = $file['name'] . ' 文件不是合法的 PHP 文件';
                break;
        }
        return false;
    }
    return true;
}

/**
 * 处理 HTTP POST 请求

```

```

*

* @param array $files [] $_FILES [] HTTP [] array
* @return boolean
*/ private function checkHttpPost($file)
{
    if (!is_uploaded_file($file['tmp_name'])) {
        $this->res['error'] = $file['name'] . ' HTTP POST ';
        return false;
    }
    return true;
}

/**
 * 
 * 
 * @param array $files [] $_FILES [] HTTP array
 * @return boolean
 */ private function checkMIME($file)
{
    if (!in_array($file['type'], $this->allowMIME)) {
        $this->res['error'] = $file['name'] . ' ';
        return false;
    }
    return true;
}

/**
 * 
 * 
 * @param array $files [] $_FILES [] HTTP array
 * @return boolean
 */ private function checkExt($file)
{
    $this->ext = pathinfo($file['name'], PATHINFO_EXTENSION); // 

    // 
    if (!is_array($this->allowExt)) {
        $this->res['error'] = $file['name'] . ' array';
        return false;
    } else {

```

```

        // []
        if (!in_array($this->ext, $this->allowExt)) {
            $this->res['error'] = $file['name'] . ' []';
            return false;
        }
    }
    return true;
}

/**
 * []
 *
 * @param array $files [] $_FILES [] HTTP [] array
 * @return boolean
 */ private function checkSize($file)
{
    if ($file['size'] > $this->maxSize) {
        $this->res['error'] = $file['name'] . ' []';
        return false;
    }
    return true;
}

/**
 * []
 *
 * @param array $files [] $_FILES [] HTTP [] array
 * @return boolean
 */ private function checkTrueImg(array $file)
{
    if ($this->flag) {
        if (!@getimagesize($file['tmp_name'])) {
            $this->res['error'] = $file['name'] . ' []';
            return false;
        }
        return true;
    }
}

/**

```

```

* ████████████████████
*
* @return void
*/ private function checkUploadPath()
{
    if (!file_exists($this->uploadPath)) {
        mkdir($this->uploadPath, 0777, true);
    }
}

/**
* ████████
*
* @return string
*/ private function getUniName()
{
    return md5(uniqid(microtime(true), true));
}

/**
* ██████
*
* @return void
*/ private function showMessage()
{
    if (!empty($this->res['error'])) {
        echo '<span style="color: #ff0000;">' . $this->res['error'] . '</span><br />';
    } else {
        echo '<span style="color: #0000ff;">' . $this->res['succ'] . '</span><br />';
    }
}
}



```

backgroundbackground-repeat:repeat; ☐ ☐ ☐

```
no-repeat | repeat-x x | repeat-y y | space round
```

space

[illegible]

background-position:top left;□□□ □□

toprightbottomleftcenter

background-position:X-axe y-axe;

xy %px

```
background-position: bottom 50px right 100px;
```

padding: background-position: 50px 100px;

```
background-size:contain;
```

A horizontal number line with vertical tick marks at every integer from 0 to 20. A comma is placed between the tick marks for 10 and 11.

`background: cover; 30% 30%; 200px 100px;`

11

$$* \{$$

```
background: url("xxx")green no-repeat right top;
```

```
background-size: 100px;
```

}

```
.image{
```

height:380px;

--	--	--	--	--

```
background-image:url("https://[ ] [ ] [ ] [ ] [ ].png");[ ] [ ] [ ] [ ] [ ]
```

background-position: center;□□□□, □□□□□□□□

background-size: cover;□□□□□□

background-repeat: no-repeat;□□□□

}

```
background-image: url("amos.png");
```

```
background-image: url("01.jpg"), url("02.jpg"), url("03.jpg");
```

--	--	--	--	--	--	--

```
background-repeat: no-repeat;
```

background-position: left top, right bottom, center center;

```
background-image: linear-gradient(to [angle], [color], [color]); #[hex]
```

div{

```
width: 200px;
```

```
height: 200px;
```

```
background-image: linear-gradient(to left top, red,yellow);
```

}

background-image: linear-gradient(to top, #f00 50%, #ff0 50%);
background-image: linear-gradient(to top right, #f00 50%, #ff0 50%);
background-image: linear-gradient(to top right, #f00 50%, transparent 50%);
#50% 50%;

background-attachment: scroll;
background-attachment: fixed local

background: gray url("amos.png") scroll no-repeat 50% 50% / 50% 50%;

border: 1px solid red;
outline: 1px solid red;

EX:

border: 1px solid red;
outline: 1px solid red;

border

border-width
border-style
border-color

border-top(1px solid red)

border-top-width: 1px;
border-top-style: solid;
border-top-color: red;

border

border-top: 1px solid red;
border-right: 1px solid red;
border-bottom: 1px solid red;
border-left: 1px solid red;

border

border-width: 1px 1px 1px 1px;
border-style: solid solid solid solid;
border-color: red red red red;

border-width: 1px 1px 1px 1px;
border-style: solid solid solid solid;
border-color: red red red red;

/*border*/

border-width: 1px 1px 1px 1px;

/*border*/

border-width: 1px [1px] 1px;

/*border*/

border-width: [1px] [1px];

/*[]*[]*/
border-width: [];

outline
outline-width
outline-style
outline-color
[]

list-style: list-style-type list-style-position list-style-image;
list-style: [] [] [];
list-style: circle outside url("gold-fish.png");

list-style-type[]
none ([])cjk-ideographic ([])
decimal (1[]2[]3)decimal-leading-zero (01[]02[]03)
lower-alpha (a[]b[]c)upper-alpha (A[]B[]C)
lower-roman (i[]ii[]iii)upper-roman (I[]II[]III)
initial

position: relative;
static ([]),relative ([]),fixed ([]),absolute ([]),sticky ([])

---[]---

<p>
<strong style="color:#f00;">[][]
</p>
<p>
<strong style="color:#f90;">[][]
</p>
<p>
<strong style="color:#00f;">[][]
</p>
[]

SEO

1. Title

```
<title></title>
<meta name="description" content=" "> 60
HTML HTML <h1>-<h6> (Heading) <h1> <h6> 

alt <img />

<META NAME="ROBOTS" CONTENT="INDEX,FOLLOW">
<META NAME="ROBOTS" CONTENT="NOINDEX,FOLLOW">
<META NAME="ROBOTS" CONTENT="INDEX,NOFOLLOW">
<META NAME="ROBOTS" CONTENT="NOINDEX,NOFOLLOW">
```

SVG

SVG Circle

Sorry, your browser does not support inline SVG.

Example

```
<!DOCTYPE html>
<html>
<body>

<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />
</svg>

</body>
</html>
```

SVG Rectangle

Sorry, your browser does not support inline SVG.

Example

```
<svg width="400" height="120">
  <rect x="10" y="10" width="200" height="100" stroke="red" stroke-width="6" fill="blue" />
</svg>
```

SVG Rectangle with Opacity and Rounded Corners

Sorry, your browser does not support inline SVG.

Example

```
<svg width="400" height="180">
  <rect x="50" y="20" rx="20" ry="20" width="150" height="150"
  style="fill:red;stroke:black;stroke-width:5;opacity:0.5" />
</svg>
```

SVG Star

Sorry, your browser does not support inline SVG.

Example

```
<svg width="300" height="200">
  <polygon points="100,10 40,198 190,78 10,78 160,198"
  style="fill:lime;stroke:purple;stroke-width:5;fill-rule:evenodd;" />
</svg>
```

SVG Gradient Ellipse and Text

Example

```
<svg height="130" width="500">
  <defs>
    <linearGradient id="grad1">
```

```
<stop offset="0%" stop-color="yellow" />
<stop offset="100%" stop-color="red" />
</linearGradient>
</defs>
<ellipse cx="100" cy="70" rx="85" ry="55" fill="url(#grad1)" />
<text fill="#ffffff" font-size="45" font-family="Verdana" x="50" y="86">SVG</text>

Sorry, your browser does not support inline SVG.

</svg>
```

php

PHP

php

```
sudo dpkg -l | grep php | tee packages.txt
```

```
ron@ron:~$ sudo dpkg -l | grep php | tee packages.txt
[sudo] password for ron:
ii  libapache2-mod-php      2:8.2+93+nmu1      all          server-side, HTML-embedded
scripting language (Apache 2 module) (default)
ii  libapache2-mod-php8.2   8.2.27-1            amd64        server-side, HTML-embedded
scripting language (Apache 2 module)
ii  php                     2:8.2+93+nmu1      all          server-side, HTML-embedded
scripting language (default)
ii  php-common              2:93+nmu1           all          Common files for PHP packag
es
ii  php-mysql               2:8.2+93+nmu1      all          MySQL module for PHP [defau
lt]
ii  php8.2                  8.2.27-1            all          server-side, HTML-embedded
scripting language (metapackage)
ii  php8.2-cli              8.2.27-1            amd64        command-line interpreter fo
r the PHP scripting language
ii  php8.2-common           8.2.27-1            amd64        documentation, examples and
common module for PHP
ii  php8.2-mysql            8.2.27-1            amd64        MySQL module for PHP
ii  php8.2-opcache          8.2.27-1            amd64        Zend OpCache module for PHP
ii  php8.2-readline         8.2.27-1            amd64        readline module for PHP
```

php

php

debian

```
sudo apt install apt-transport-https
sudo curl -sSLo /usr/share/keyrings/deb.sury.org-php.gpg https://packages.sury.org/php/apt.gpg
sudo sh -c 'echo "deb [signed-by=/usr/share/keyrings/deb.sury.org-php.gpg] https://packages.sury.org/php/
$(lsb_release -sc) main" > /etc/apt/sources.list.d/php.list'
sudo apt update
```

Ubuntu

```
sudo add-apt-repository ppa:ondrej/php
sudo apt update
```

php

```
sudo apt install php8.3 php8.3-cli php8.3-{bz2,curl,mbstring,intl}
```

■■■■■■■■■■**php**■■■■

■■■**nginx**■**apache**■■■**php**■■

nginx

```
sudo apt install php8.3-fpm
```

■■■■■■■■**nginx**■■■■■■■

apache

```
sudo apt install libapache2-mod-php8.3
```

■■■■■■■■■■■■■■■■■■

■■■■■■■■■■■■■■■■

nginx

```
sudo systemctl status php8.3-fpm.service
```

■■■■

```
sudo apt purge php8.2*
```

■■■■

<https://php.watch/articles/php-8.3-install-upgrade-on-debian-ubuntu#php83-ubuntu-quick>