

Date functions

Generating a timestamp is usually accomplished with the **mktime()** function, which accepts a series of date and time parameters and converts them into a timestamp. In Php the function `getdate()` will return an array which consists of timestamp values

```
<?php
echo "welcome to php <br>";
echo "the time from january 1, 1970 is ";
echo mktime(10,15,00,1,5,2008); //From January 1, 1970, and that time point.
$now=getdate();
echo("<br><br>");
print_r($now);
?>
```

Output



welcome to php1199524500

```
Array ( [seconds] => 48 [minutes] => 13 [hours] => 6 [mday] => 3 [wday] => 1 [mon] => 12 [year] => 2018
[yday] => 336 [weekday] => Monday [month] => December [0] => 1543814028 )
```

Following table lists the elements contained in the array returned by `getdate()`.

Sr.No	Key & Description	Example
1	seconds Seconds past the minutes (0-59)	20
2	minutes Minutes past the hour (0 - 59)	29
3	hours Hours of the day (0 - 23)	22
4	mday Day of the month (1 - 31)	11
5	wday Day of the week (0 - 6)	4
6	mon Month of the year (1 - 12)	7
7	year Year (4 digits)	1997
8	yday Day of year (0 - 365)	19
9	weekday Day of the week	Thursday
10	month Month of the year	January
11	0 Timestamp	948370048

date function parameters

Following table lists the codes that a format string can contain –

Sr.No	Format & Description	Example
1	a 'am' or 'pm' lowercase	pm
2	A 'AM' or 'PM' uppercase	PM
3	d Day of month, a number with leading zeroes	20
4	D Day of week (three letters)	Thu
5	F Month name	January
6	h Hour (12-hour format - leading zeroes)	12
7	H Hour (24-hour format - leading zeroes)	22
8	g Hour (12-hour format - no leading zeroes)	12
9	G Hour (24-hour format - no leading zeroes)	22
10	i Minutes (0 - 59)	23
11	j Day of the month (no leading zeroes)	20
12	l (Lower 'L') Day of the week	Thursday
13	L Leap year ('1' for yes, '0' for no)	1
14	m Month of year (number - leading zeroes)	1
15	M Month of year (three letters)	Jan
16	r The RFC 2822 formatted date	Thu, 21 Dec 2000 16:01:07 +0200
17	n Month of year (number - no leading zeroes)	2
18	s Seconds of hour	20
19	U Time stamp	948372444
20	y Year (two digits)	06
21	Y Year (four digits)	2006

22	z Day of year (0 - 365)	206
23	Z Offset in seconds from GMT	+5

```
<?php
$now=getdate();
foreach($now as $key=>$val)
{
echo "$key = $val <br>";
}
?>
```

Output

```
seconds = 18
minutes = 48
hours = 7
mday = 3
wday = 1
mon = 12
year = 2018
yday = 336
weekday = Monday
month = December
0 = 1543819698
```

```
<?php
$now=getdate();
foreach($now as $key=>$val)
{
echo "$key = $val <br>";
}
echo 'it is = '. date("H:i d F Y", mktime(8,15,0,2,14,2008));
//converting strings to timestamps
$str='December 3 2018';
echo "<br>";
echo 'it is = '. date("d M F Y", strtotime($str));
echo "<br>today date is = ",$now['mday'].'.'. $now['mon'].'.'. $now['year'];
?>
```

Output

```
seconds = 8
minutes = 46
hours = 8
mday = 3
wday = 1
mon = 12
year = 2018
yday = 336
weekday = Monday
month = December
```

0 = 1543823168

it is = 08:15 14 February 2008

it is = 03 Dec December 2018

today date is = 3/12/2018

string functions

Function	Description
addslashes()	Returns a string with backslashes in front of the specified characters
addslashes()	Returns a string with backslashes in front of predefined characters
bin2hex()	Converts a string of ASCII characters to hexadecimal values
chop()	Removes whitespace or other characters from the right end of a string
chr()	Returns a character from a specified ASCII value
chunk_split()	Splits a string into a series of smaller parts
convert_cyr_string()	Converts a string from one Cyrillic character-set to another
convert_uudecode()	Decodes a uuencoded string
convert_uuencode()	Encodes a string using the uuencode algorithm
count_chars()	Returns information about characters used in a string
crc32()	Calculates a 32-bit CRC for a string
crypt()	One-way string hashing
echo()	Outputs one or more strings
explode()	Breaks a string into an array
fprintf()	Writes a formatted string to a specified output stream
get_html_translation_table()	Returns the translation table used by htmlspecialchars() and htmlentities()
hebreiv()	Converts Hebrew text to visual text
hebreivc()	Converts Hebrew text to visual text and new lines (\n) into
hex2bin()	Converts a string of hexadecimal values to ASCII characters
html_entity_decode()	Converts HTML entities to characters
htmlentities()	Converts characters to HTML entities
htmlspecialchars_decode()	Converts some predefined HTML entities to characters
htmlspecialchars()	Converts some predefined characters to HTML entities
implode()	Returns a string from the elements of an array
join()	Alias of implode()
lcfirst()	Converts the first character of a string to lowercase
levenshtein()	Returns the Levenshtein distance between two strings
localeconv()	Returns locale numeric and monetary formatting information
ltrim()	Removes whitespace or other characters from the left side of a string
md5()	Calculates the MD5 hash of a string
md5_file()	Calculates the MD5 hash of a file
metaphone()	Calculates the metaphone key of a string

money_format()	Returns a string formatted as a currency string
nl_langinfo()	Returns specific local information
nl2br()	Inserts HTML line breaks in front of each newline in a string
number_format()	Formats a number with grouped thousands
ord()	Returns the ASCII value of the first character of a string
parse_str()	Parses a query string into variables
print()	Outputs one or more strings
printf()	Outputs a formatted string
quoted_printable_decode()	Converts a quoted-printable string to an 8-bit string
quoted_printable_encode()	Converts an 8-bit string to a quoted printable string
quotemeta()	Quotes meta characters
rtrim()	Removes whitespace or other characters from the right side of a string
setlocale()	Sets locale information
sha1()	Calculates the SHA-1 hash of a string
sha1_file()	Calculates the SHA-1 hash of a file
similar_text()	Calculates the similarity between two strings
soundex()	Calculates the soundex key of a string
sprintf()	Writes a formatted string to a variable
sscanf()	Parses input from a string according to a format
str_getcsv()	Parses a CSV string into an array
str_ireplace()	Replaces some characters in a string (case-insensitive)
str_pad()	Pads a string to a new length
str_repeat()	Repeats a string a specified number of times
str_replace()	Replaces some characters in a string (case-sensitive)
str_rot13()	Performs the ROT13 encoding on a string
str_shuffle()	Randomly shuffles all characters in a string
str_split()	Splits a string into an array
str_word_count()	Count the number of words in a string
strcasecmp()	Compares two strings (case-insensitive)
strchr()	Finds the first occurrence of a string inside another string (alias of strstr())
strcmp()	Compares two strings (case-sensitive)
strcoll()	Compares two strings (locale based string comparison)
strcspn()	Returns the number of characters found in a string before any part of some specified characters are found
strip_tags()	Strips HTML and PHP tags from a string
stripslashes()	Unquotes a string quoted with addslashes()
stripslashes()	Unquotes a string quoted with addslashes()
stripos()	Returns the position of the first occurrence of a string inside another string (case-insensitive)

stristr()	Finds the first occurrence of a string inside another string (case-insensitive)
strlen()	Returns the length of a string
strnatcasecmp()	Compares two strings using a "natural order" algorithm (case-insensitive)
strnatcmp()	Compares two strings using a "natural order" algorithm (case-sensitive)
strncasecmp()	String comparison of the first n characters (case-insensitive)
strncmp()	String comparison of the first n characters (case-sensitive)
strpbrk()	Searches a string for any of a set of characters
strpos()	Returns the position of the first occurrence of a string inside another string (case-sensitive)
strrchr()	Finds the last occurrence of a string inside another string
strrev()	Reverses a string
strripos()	Finds the position of the last occurrence of a string inside another string (case-insensitive)
strrpos()	Finds the position of the last occurrence of a string inside another string (case-sensitive)
strspn()	Returns the number of characters found in a string that contains only characters from a specified charlist
strstr()	Finds the first occurrence of a string inside another string (case-sensitive)
strtok()	Splits a string into smaller strings
strtolower()	Converts a string to lowercase letters
strtoupper()	Converts a string to uppercase letters
strtr()	Translates certain characters in a string
substr()	Returns a part of a string
substr_compare()	Compares two strings from a specified start position (binary safe and optionally case-sensitive)
substr_count()	Counts the number of times a substring occurs in a string
substr_replace()	Replaces a part of a string with another string
trim()	Removes whitespace or other characters from both sides of a string
ucfirst()	Converts the first character of a string to uppercase
ucwords()	Converts the first character of each word in a string to uppercase
vfprintf()	Writes a formatted string to a specified output stream
vprintf()	Outputs a formatted string
vsprintf()	Writes a formatted string to a variable
wordwrap()	Wraps a string to a given number of characters

Math functions

Function	Description
abs()	Returns the absolute (positive) value of a number
acos()	Returns the arc cosine of a number

acosh()	Returns the inverse hyperbolic cosine of a number
asin()	Returns the arc sine of a number
asinh()	Returns the inverse hyperbolic sine of a number
atan()	Returns the arc tangent of a number in radians
atan2()	Returns the arc tangent of two variables x and y
atanh()	Returns the inverse hyperbolic tangent of a number
base_convert()	Converts a number from one number base to another
bindec()	Converts a binary number to a decimal number
ceil()	Rounds a number up to the nearest integer
cos()	Returns the cosine of a number
cosh()	Returns the hyperbolic cosine of a number
decbin()	Converts a decimal number to a binary number
dechex()	Converts a decimal number to a hexadecimal number
decoct()	Converts a decimal number to an octal number
deg2rad()	Converts a degree value to a radian value
exp()	Calculates the exponent of e
expm1()	Returns $\exp(x) - 1$
floor()	Rounds a number down to the nearest integer
fmod()	Returns the remainder of x/y
getrandmax()	Returns the largest possible value returned by rand()
hexdec()	Converts a hexadecimal number to a decimal number
hypot()	Calculates the hypotenuse of a right-angle triangle
is_finite()	Checks whether a value is finite or not
is_infinite()	Checks whether a value is infinite or not
is_nan()	Checks whether a value is 'not-a-number'
lcg_value()	Returns a pseudo random number in a range between 0 and 1
log()	Returns the natural logarithm of a number
log10()	Returns the base-10 logarithm of a number
log1p()	Returns $\log(1+\text{number})$
max()	Returns the highest value in an array, or the highest value of several specified values
min()	Returns the lowest value in an array, or the lowest value of several specified values
mt_getrandmax()	Returns the largest possible value returned by mt_rand()
mt_rand()	Generates a random integer using Mersenne Twister algorithm
mt_srand()	Seeds the Mersenne Twister random number generator
octdec()	Converts an octal number to a decimal number
pi()	Returns the value of PI
pow()	Returns x raised to the power of y
rad2deg()	Converts a radian value to a degree value
rand()	Generates a random integer

round()	Rounds a floating-point number
sin()	Returns the sine of a number
sinh()	Returns the hyperbolic sine of a number
sqrt()	Returns the square root of a number
srand()	Seeds the random number generator
tan()	Returns the tangent of a number
tanh()	Returns the hyperbolic tangent of a number