

## 43. PHP 5 Calendar Functions

### 43.1. PHP Calendar Introduction

The calendar extension contains functions that simplifies converting between different calendar formats.

**It is based on the Julian Day Count, which is a count of days starting from January 1st, 4713 B.C.**

**Note:** To convert between calendar formats, you must first convert to Julian Day Count, then to the calendar of your choice.

**Note:** The Julian Day Count is not the same as the Julian Calendar!

### 43.2. Installation

For these functions to work, you have to compile PHP with `--enable-calendar`.

The Windows version of PHP has built-in support for this extension.

### 43.3. PHP 5 Calendar Functions

Function	Description
<code>cal_days_in_month()</code>	Returns the number of days in a month for a specified year and calendar
<code>cal_from_jd()</code>	Converts a Julian Day Count into a date of a specified calendar
<code>cal_info()</code>	Returns information about a specified calendar
<code>cal_to_jd()</code>	Converts a date in a specified calendar to Julian Day Count
<code>easter_date()</code>	Returns the Unix timestamp for midnight on Easter of a specified year
<code>easter_days()</code>	Returns the number of days after March 21, that the Easter Day is in a specified year
<code>frenchtojd()</code>	Converts a French Republican date to a Julian Day Count
<code>gregoriantojd()</code>	Converts a Gregorian date to a Julian Day Count
<code>jddayofweek()</code>	Returns the day of the week
<code>jdmonthname()</code>	Returns a month name
<code>jdtofrrench()</code>	Converts a Julian Day Count to a French Republican date
<code>jdtogregorian()</code>	Converts a Julian Day Count to a Gregorian date
<code>jdtojewish()</code>	Converts a Julian Day Count to a Jewish date
<code>jdtojulian()</code>	Converts a Julian Day Count to a Julian date
<code>jdtonix()</code>	Converts Julian Day Count to Unix timestamp
<code>jewishtojd()</code>	Converts a Jewish date to a Julian Day Count

<code>juliantojd()</code>	Converts a Julian date to a Julian Day Count
<code>unixtojd()</code>	Converts Unix timestamp to Julian Day Count

## 43.4. PHP 5 Predefined Calendar Constants

Constant	Type	PHP Version
<code>CAL_GREGORIAN</code>	Integer	PHP 4
<code>CAL_JULIAN</code>	Integer	PHP 4
<code>CAL_JEWISH</code>	Integer	PHP 4
<code>CAL_FRENCH</code>	Integer	PHP 4
<code>CAL_NUM_CALS</code>	Integer	PHP 4
<code>CAL_DOW_DAYNO</code>	Integer	PHP 4
<code>CAL_DOW_SHORT</code>	Integer	PHP 4
<code>CAL_DOW_LONG</code>	Integer	PHP 4
<code>CAL_MONTH_GREGORIAN_SHORT</code>	Integer	PHP 4
<code>CAL_MONTH_GREGORIAN_LONG</code>	Integer	PHP 4
<code>CAL_MONTH_JULIAN_SHORT</code>	Integer	PHP 4
<code>CAL_MONTH_JULIAN_LONG</code>	Integer	PHP 4
<code>CAL_MONTH_JEWISH</code>	Integer	PHP 4
<code>CAL_MONTH_FRENCH</code>	Integer	PHP 4
<code>CAL_EASTER_DEFAULT</code>	Integer	PHP 4.3
<code>CAL_EASTER_ROMAN</code>	Integer	PHP 4.3
<code>CAL_EASTER_ALWAYS_GREGORIAN</code>	Integer	PHP 4.3
<code>CAL_EASTER_ALWAYS_JULIAN</code>	Integer	PHP 4.3
<code>CAL_JEWISH_ADD_ALAFIM_GERESH</code>	Integer	PHP 5.0
<code>CAL_JEWISH_ADD_ALAFIM</code>	Integer	PHP 5.0
<code>CAL_JEWISH_ADD_GERESHAYIM</code>	Integer	PHP 5.0