

# **Date & Time**

#### 1. Timezone Functions

```
date_default_timezone_get()
```

Get the current default timezone.

```
echo date_default_timezone_get() . "<br>";
```

```
date_default_timezone_set(timezone)
```

Set the default timezone.

```
date_default_timezone_set("Africa/Cairo");
```

```
timezone_open(timezone)
```

Open a timezone by its name.

```
$timezone = timezone_open("Indian/Antananarivo");
```

```
date_create()
```

Create a DateTime object. You can optionally specify a date and timezone.

```
$date = date_create("2022-10-01 15:5:3");
echo date_format($date, "Y-m-d H:i:s");
```

```
checkdate(M, D, Y)
```

Validate a Gregorian date.

```
var_dump(checkdate(10, 25, 1982)); // true
var_dump(checkdate(31, 02, 1982)); // false
```

# 2. Date Formatting

```
date_format()
```

Format a DateTime object into a specific format.

```
$date = date_create();

echo date_format($date, "Y") . "<br>"; // Four-digit year
echo date_format($date, "y") . "<br>"; // Two-digit year
echo date_format($date, "F") . "<br>"; // Full month name
echo date_format($date, "l") . "<br>"; // Full day name
echo date_format($date, "Y-m-d") . "<br>"; // Date with dash
es
```

# 3. Date Modifying Functions

```
date_add() and date_sub()
```

Add or subtract an interval from a date.

```
$date = date_create("2022-01-01");
date_add($date, date_interval_create_from_date_string("1 year
2 months 5 days"));
echo date_format($date, "Y-m-d"); // "2023-03-06

$date = date_create("2022-01-01");
date_sub($date, date_interval_create_from_date_string("1 year
2 months 5 days"));
echo date_format($date, "Y-m-d"); // "2020-10-27"
```

#### date\_modify()

Modify a date by adding or subtracting a time interval.

```
$date = date_create();
date_modify($date, "+20 months");
echo date_format($date, "Y-m-d"); // New date after 20 month
s
```

### 4. Timestamp and Parsing

#### time()

Get the current Unix timestamp.

```
echo time() . "<br>"; // Unix timestamp
```

## getdate()

Get the current date and time in an associative array.

```
print_r(getdate());
```

## date\_parse()

Parse a date/time string into an array of components.

```
print_r(date_parse("1985-02-31 05:25:15 UTC"));
```

#### 5. Date Difference

```
date_diff()
```

Get the difference between two dates.

```
$date1 = date_create("2022-01-09");
$date2 = date_create("now");
```

```
$diff = date_diff($date1, $date2);
echo "You are a member for " . $diff->days . " days.<br>";
```

#### strtotime()

Convert a date/time string into a Unix timestamp.

```
echo date("Y-m-d H:i:s", strtotime("next Friday")) . "<br>";
// Date for next Friday
echo date("Y-m-d H:i:s", strtotime("+1 year")) . "<br>"; //
Date after 1 year
echo date("Y-m-d H:i:s", strtotime("tomorrow")) . "<br>"; //
Date for tomorrow
```

# **Example Usage**

```
// Get current date and time
echo date("Y-m-d H:i:s") . "<br/>
// Set a specific timezone
date_default_timezone_set("Asia/Kolkata");
echo date("Y-m-d H:i:s") . "<br/>
// Add 1 year and 5 months to the current date
$date = date_create();
date_modify($date, "+1 year 5 months");
echo date_format($date, "Y-m-d") . "<br/>
// Check if a date is valid
var_dump(checkdate(02, 31, 2024)); // false
```

#### **Summary:**

• **Timezone Functions** help you manage and manipulate time zones.

- **Formatting Functions** allow you to display dates in various formats (year, month, day, etc.).
- Date Modification helps you add or subtract time from a date.
- **Time Functions** like time() and getdate() give you access to the current timestamp and components of the current date.
- Date Differences can be calculated using date\_diff() and strtotime().