DateInterval and DatePeriod Class



Annapurna Agrawal

@annapurna_23 linkedin.com/in/annapurna-agrawal



Overview



DateInterval Class

- How to create and format its object

Find out the daylight duration

Interval between the sunrise and sunset

DatePeriod Class

List the dates for meeting, for last thursday of every month



DateInterval Class



Represents a date interval



Stores either a fixed amount of time or a relative time string



Can be used with add(), sub() and diff()



Takes care of timezone and daylight saving



Creating DateInterval



Using DateInterval constructor

- Passing the interval specification

DateInterval::createFromDateString(\$time)

- Passing a relative date string format
- Supported by strtotime and DateTime



DateInterval Constructor

```
$interval = new DateInterval($interval_spec);
$interval = new DateInterval('P2Y');
$interval = new DateInterval('P1W');
$interval = new DateInterval('P2Y3M4D');
$interval = new DateInterval('P2Y3M4DT6H8M');
```



Interval Specification for DateInterval

```
P starts with P, for period
```

Y years

M months

D days

W week - gets converted into days, so can not be combined with D

T time

H hours

M minutes

S seconds



DateInterval Constructor

```
$interval = new DateInterval($interval_spec);
$interval = new DateInterval('P2Y');
$interval = new DateInterval('P1W');
$interval = new DateInterval('P2Y3M4D');
$interval = new DateInterval('P2Y3M4DT6H8M');
```



Creating DateInterval



Using DateInterval constructor

- Passing the interval specification

DateInterval::createFromDateString(\$time)

- Passing a relative date string format
- Supported by strtotime and DateTime



DateInterval Constructor

```
$interval = new DateInterval::createFromDateString($time);
$interval = new DateInterval('P2Y');
$interval = DateInterval::createFromDateString('2 year');
$interval = new DateInterval('P3M');
$interval = DateInterval::createFromDateString('3 months');
```



Using add(), sub() and diff() with DateInterval



Demo



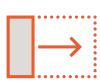
Find out the duration of daylight, between the sunrise and sunset



DatePeriod Class



DatePeriod Class



Represents a date period, within a range of dates



Allows iteration over a set of dates and times, recurring at regular intervals, over a given period



\$daterange = new DatePeriod(\$begin, \$interval, \$end);



Demo



Get a list of all last Thursdays, for year 2020



Summary



DateInterval Class

- Creating and formatting
- Find out the daylight duration

DatePeriod Class

- Using with DateTime and DateInterval
- List the dates for meeting, for last thursday of every month



Dealing with Database for Dates

