Understanding DateTime Class in PHP



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Overview



Object Oriented date and time functions

- DateTime Class

Timestamp in DateTime Class

Play around with DateTime Object

Create a demo app to find our sunrise and sunset timings



DateTime Class

DateTime class is ObjectOriented

Stores information about date, time and timezones

Timezone information is independent of server settings

Dedicated methods for date and time calculations. modify(), add(), sub(), diff()



Example of DateTime Class

```
$date_now = new DateTime();
$date = new DateTime('January 14, 2020');
echo $date_now->format('1, F j, Y g:i a');
$time_now = $date_now->getTimestamp();
// $time_now = $date_now->format('U');
```

\$date->setTimestamp(\$time_now);



Demo



Sunrise and sunset info for a given longitude and latitude



Demo



Sunrise and sunset info for a given longitude and latitude



Sunrise and Sunset

date_sun_info(\$time, \$lat, \$long) : array

- Returns array with information about sunset/sunrise and twilight begin/end



```
$date1 = new DateTime();
$date2 = $date1->modify('+1 day 9:30 pm');

$date3 = new DateTimeImmutable();
$date4 = $date3->modify('+1 day 9:30 pm');
```

modify(): DateTime vs DateTimeImmutable

DateTime::modify()

- Alters the object and returns modified object

DateTimeImmutable::modify()

- Alters the object and returns a new object



Overview



DateTime::setDate (\$year, \$mon, \$day)

- Sets the date

DateTime::setTime (\$hour, \$min, \$sec)

- Sets the time



Date Formats



09/05/2020

- 9th of May, 2020

09/05/2020

- 5th of September, 2020

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



Summary



Functions available in DateTime class getTimestamp() and setTimestamp() modify() with DateTime and **DateTimeImmutable** set_date() and set_time() sun_date_info() for sunrise and sunset DateTime::createFromFormat()

