Date Units

DateUnit, to move a date by days, weeks, months, quarters, semesters and years, and Weekday

Anonymous · 05/11/2026

Date Units

```
use Derafu\Date\Enum\DateUnit;
use Derafu\Date\Enum\Weekday;
```

DateUnit

`DateUnit` is an enum of the units of time. The value of each case is its one-letter code.

Case	Code	Months
`DAY`	`D`	
`WEEK`	`W`	
`MONTH`	`M`	1
`QUARTER`	`Q`	3
`SEMESTER`	`S`	6
`YEAR`	`Y`	12

`DateUnit::fromCode('m')` gives the unit of a code in upper or lower case, and an `InvalidDateException` if there is none. `getMonths()` gives the months of the unit, or `null` for days and weeks.

Move a date

```
DateUnit::MONTH->add($date, 1);        // a month later
DateUnit::QUARTER->subtract($date, 2); // two quarters earlier
DateUnit::DAY->add($date, -3);         // a negative number goes the other way
```

`add($date, $steps = 1)` and `subtract($date, $steps = 1)` give a new `DateTimeImmutable`; the date that is given does not change and its time is kept.

Months, quarters, semesters and years never overflow: the day that the month of the result does not have is the last day of that month.

Date	Move	Result
`2024-01-31`	+ 1 month	`2024-02-29`
`2023-01-31`	+ 1 month	`2023-02-28`
`2024-08-31`	+ 1 semester	`2025-02-28`
`2024-02-29`	+ 1 year	`2025-02-28`

Weekday

`Weekday` numbers the days of the week like ISO 8601: Monday is `1` and Sunday is `7`. `Weekday::fromDate($date)` gives the day of the week of a date. A work calendar uses it to say which days are the weekend.

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