



Vikash Singh
@full_stack_geek

JAVA Date and Time

CheatSheet



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1) The current date

```
LocalDate date = LocalDate.now();
```

2) The current time

```
LocalTime time = LocalTime.now();
```

3) It will give us the current time and date

```
LocalDateTime current = LocalDateTime.now();
```

4) to print in a particular format

```
DateTimeFormatter format = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm:ss");
```

```
String formattedDateTime = current.format(format);
```

5) getting months days and seconds

```
Month month = current.getMonth();
```

```
int day = current.getDayOfMonth();
```

```
int seconds = current.getSecond();
```



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6) Get some specified date

```
LocalDate date2 = LocalDate.of(1950,1,26);
```

7) Get date with current time.

```
LocalDateTime specificDate =  
current.withDayOfMonth(24).withYear(2016);
```

8) To get the current zone

```
ZonedDateTime currentZone = ZonedDateTime.now();
```

9) Getting time zone of specific place we use withZoneSameInstant(): it is used to return a copy of this date-time with a different time-zone, retaining the instant.

```
ZonedDateTime tokyo = ZonedDateTime.of("Asia/Tokyo");
```

```
ZonedDateTime tokyoZone =  
currentZone.withZoneSameInstant(tokyo);
```



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10) find Period between two dates

```
LocalDate date1 = LocalDate.now();
```

```
LocalDate date2 = LocalDate.of(2017, Month.DECEMBER, 19);
```

```
Period gap = Period.between(date2, date1);
```

11) Adding five hours to the current

```
LocalTime time1 = LocalTime.now();
```

```
Duration fiveHours = Duration.ofHours(5);
```

```
LocalTime time2 = time1.plus(fiveHours);
```

```
LocalDate date = LocalDate.now();
```

13) Adding 2 years to the current date

```
LocalDate year = date.plus(2, ChronoUnit.YEARS);
```

14) Adding 1 month to the current date

```
LocalDate nextMonth = date.plus(1, ChronoUnit.MONTHS);
```

15) Adding 1 week to the current date

```
LocalDate nextWeek = date.plus(1, ChronoUnit.WEEKS);
```

16) Adding 2 decades to the current date

```
LocalDate Decade = date.plus(2, ChronoUnit.DECADES);
```



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```
LocalDate date = LocalDate.now();
```

17) To get the first day of next month

```
    LocalDate dayOfNextMonth =  
date.with(TemporalAdjusters.firstDayOfNextMonth());
```

18) Get the next Saturday

```
    LocalDate nextSaturday =  
date.with(TemporalAdjusters.next(DayOfWeek.SATURDAY));
```

19) first day of the current month

```
    LocalDate firstDay = date.with(TemporalAdjusters.firstDayOfMonth());
```

20) last day of the current month

```
    LocalDate lastDay = date.with(TemporalAdjusters.lastDayOfMonth());
```

21) Convert java.util.Date to java.time.ZonedDateTime

```
Date now = new Date();  
ZonedDateTime utc = ZonedDateTime.ofInstant(now.toInstant(), ZoneOffset.UTC);  
ZonedDateTime auckland = ZonedDateTime.ofInstant(now.toInstant(),  
ZoneId.of("Pacific/Auckland"));  
ZonedDateTime plusOne = ZonedDateTime.ofInstant(now.toInstant(),  
ZoneOffset.of("+1"));
```



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22) Convert java.time.ZonedDateTime to java.util.Date

```
ZonedDateTime utc = ZonedDateTime.now(ZoneOffset.UTC);  
Date now = Date.from(utc.toInstant());
```

23) Convert java.time.ZonedDateTime to milliseconds from Epoch (java.util.Date#getTime)

```
ZonedDateTime utc = ZonedDateTime.now(ZoneOffset.UTC);  
utc.toInstant.toEpochMilli();
```

24) Start of today

```
ZonedDateTime startOfToday =  
LocalDate.now().atStartOfDay(ZoneOffset.UTC);
```

25) Start of this week (Monday)

```
ZonedDateTime startOfWeek =  
LocalDate.now().atStartOfDay(ZoneId.of("Europe/London")).with(TemporalAdjusters.previousOrSame(DayOfWeek.MONDAY));
```

26) Start of this month

```
ZonedDateTime startOfMonth =  
LocalDate.now().atStartOfDay(ZoneOffset.UTC).with(TemporalAdjusters.firstDayOfMonth());
```



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27) Days between dates

```
LocalDate today = LocalDate.now();  
LocalDate threeDaysAgo = today.minusDays(3);  
long days = ChronoUnit.DAYS.between(threeDaysAgo, today);
```

28) java.sql.date to java.time.Instant

```
java.sql.Date sqlDate = new java.sql.Date(1446853831381L);  
Instant i = Instant.ofEpochMilli(sqlDate.getTime());
```

29) Can also convert to LocalDate directly

```
sqlDate.toLocalDate();
```

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