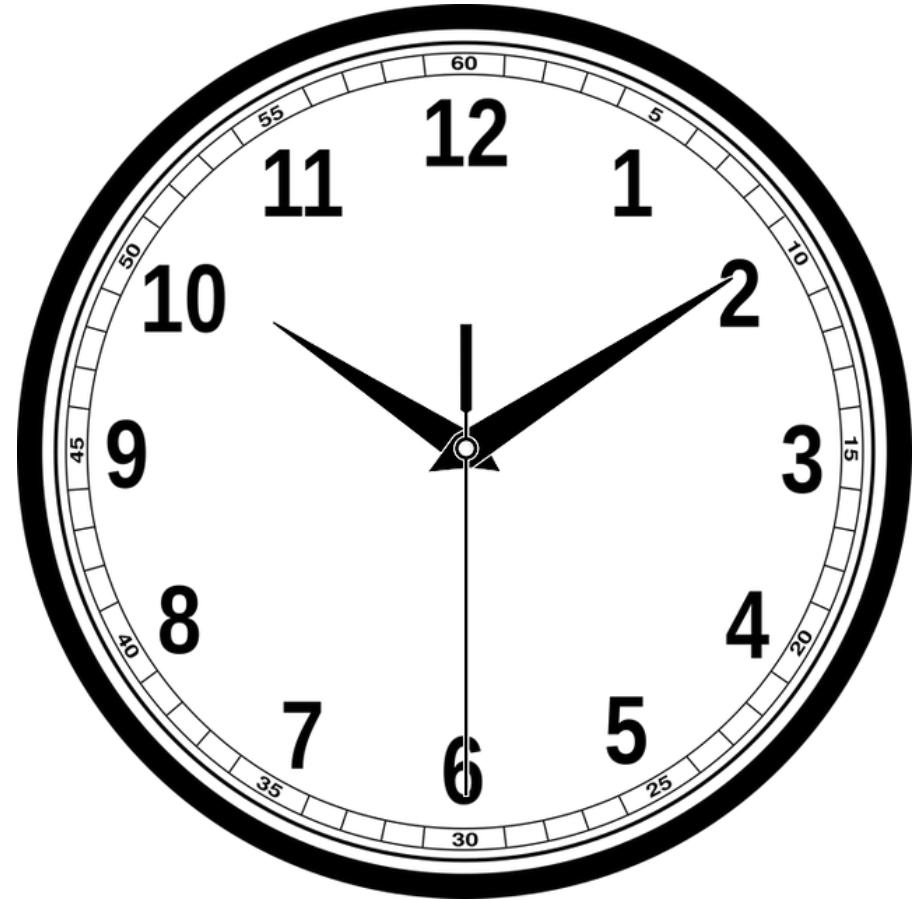# Calendar holidays

Capturing holidays in a feature

Calendar holidays

- Special days, usually non-working days.

- **Holiday date**: the official's holiday day.

- **Observance date:** the day in which the holiday is observed.
  - If it falls on weekend, move to next Monday.
  - First Monday of the month.

Calendar holidays

- The observance date varies year on year.

- Different holidays have different observance "rules".

Calendar holidays in Python

- holidays package.

python-holidays

A fast, efficient Python library for generating country- and subdivision- (e.g. state or province) specific sets of government-designated holidays on the fly. It aims to make determining whether a specific date is a holiday as fast and flexible as possible.

Package:	Python 3 · PyPI v0.16 · Downloads 4.9M/month
CD/CI:	Tests passing · coverage 100%
Docs:	docs passing
Meta:	code style black · license MIT

Install

The latest stable version can always be installed or updated via pip:

```
$ pip install --update holidays
```

Calendar holidays in Python

- pandas.

Holidays / holiday calendars

Holidays and calendars provide a simple way to define holiday rules to be used with `CustomBusinessDay` or in other analysis that requires a predefined set of holidays. The `AbstractHolidayCalendar` class provides all the necessary methods to return a list of holidays and only `rules` need to be defined in a specific holiday calendar class. Furthermore, the `start_date` and `end_date` class attributes determine over what date range holidays are generated. These should be overwritten on the `AbstractHolidayCalendar` class to have the range apply to all calendar subclasses. `USFederalHolidayCalendar` is the only calendar that exists and primarily serves as an example for developing other calendars.

For holidays that occur on fixed dates (e.g., US Memorial Day or July 4th) an observance rule determines when that holiday is observed if it falls on a weekend or some other non-observed day. Defined observance rules are:

Rule	Description
nearest_workday	move Saturday to Friday and Sunday to Monday
sunday_to_monday	move Sunday to following Monday
next_monday_or_tuesday	move Saturday to Monday and Sunday/Monday to Tuesday
previous_friday	move Saturday and Sunday to previous Friday"
next_monday	move Saturday and Sunday to following Monday

An example of how holidays and holiday calendars are defined: