
imperial-dateutil

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Warning: Heretics, Xenos, and Chaos are not allowed to use this util.



Note: The Emperor protects always and forever. He is the Ommissiah and will always live, always protect, always watch. He will protect all loyal to the Imperium and it is an honor to fight and die in the name of the emperor.

A utility to use Imperial Dating System(include Era Indomitus Dating System)

```
$ pip install imperial-dateutil
```


IMPERIAL DATING SYSTEM

1.1 Usage

After praying to Machine-God Omnisiah, then command this Lingua-technis to your Cogitator.

```
>>> from imperial_dateutil import ImperialDatingSystem
>>> from datetime import datetime, timedelta
>>> d_t = ImperialDatingSystem(0, 123, 456, 41)
<check_digit=0, year_fraction=123, year=456, millennium=M41>
>>> print(d_t)
0123456.M41
>>> print(ImperialDatingSystem(0, 123, 456, 41) + ImperialDatingSystem(0, 123, 456,
↳41))
0246912.M82
>>> print(ImperialDatingSystem(0, 123, 456, 41) + timedelta(days=9000))
0780480.M41
>>> print(timedelta(hours=8.8) + ImperialDatingSystem(0, 123, 456, 41))
0124456.M41
>>> print(ImperialDatingSystem.now())
0995019.M3
>>> ImperialDatingSystem(0, 123, 456, 41) == ImperialDatingSystem(0, 123, 456, 41)
True
>>> ImperialDatingSystem(0, 123, 457, 41) > ImperialDatingSystem(0, 123, 456, 41)
True
>>> print(ImperialDatingSystem.from_gregorian(datetime(2005, 7, 18, 16)))
0549005.M3
```

1.2 API

```
class imperial_dateutil.core.imperial.ImperialDatingSystem(check_number,
                                                         year_fraction, year,
                                                         millennium)
```

Bases: object

The Imperial Dating System of the Imperium of Man, also known as the Imperial Calendar, is fairly complex in nature, and has been structured so as to deal with the vast amount of recorded history that exists in the 41st Millenium and the massive distances between settled human worlds, which can lead to long periods of isolation.

Also the vagaries and time-warping effects of the Immaterium can make it almost impossible to keep accurate track of time over long journeys.

The Imperium has developed its own method of recording dates, which needs a bit of explanation. Most importantly, the years are always Anno Domini (A.D.) using the numbering system of our own present-day Gregorian Calendar, so the dates themselves are the ones that we are familiar with now.

A typical date as Imperial scholars write it would look something like 0.123.456.M41. This date can be divided up so that each part is explained separately below:

Check Number	Year Fraction	Year	Millennium
0	123	456	M41

Following the birth of the Great Rift and the start of the Era Indomitus, temporal anomalies spread across the galaxy making the use of a universal dating system extremely difficult as different Imperial worlds began to experience the passage of time at different subjective rates.

A new, more localised dating system came into existence that was different for each world. It used the birth of the Great Rift as the standard event from which all time was calculated, either before or after its creation.

Copyright this descriptions are copied from https://warhammer40k.fandom.com/wiki/Imperial_Dating_System

Parameters

- **check_number** (*int*) – The check number refers to the accuracy of a given date, which is required for clarity due to the common distortions of subjective linear time that occur while travelling within the Warp, and inaccuracies in timing on remote or isolated Imperial worlds and star systems.
- **year_fraction** (*int*) – For record-keeping, each year is divided into 1000 equal parts, numbered 001-000, rather than months or weeks. Note that this system is not generally used by Imperial citizens in everyday life, but is simply for administrative use by the Adeptus Terra.
- **year** (*int*) – This is the year within the millennium, running from 001-999.
- **millennium** (*int*) – This is the millennium since the birth of the ancient human religious figure Jesus Christ in which the event took place.

classmethod `from_gregorian` (*t*, *check_number=0*)

A function returns ImperialDatingSystem of given gregorian date/datetime

Parameters

- **t** (*datetime.datetime* or *datetime.date*) – Gregorian based datetime or date
- **check_number** – accuracy of *t*, numbered 0-9

Returns Imperial time format of given *t*

classmethod `now` ()

A function returns ImperialDatingSystem of current time

Returns Imperial time format of current time

to_gregorian ()

A function returns a tuple of minimum, median, and maximum values(datetime) calculated from the imperial format.

Note: minimum is closer to correct value

Returns (minimum, median, maximum)

ERA INDOMITUS DATING SYSTEM

Warning: Not Implemented!

2.1 Usage

2.2 API

```
class imperial_dateutil.core.era_indomitus.EraIndomitusDatingSystem  
    Bases: object
```


INDICES AND TABLES

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- [modindex](#)
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