Number of months

1.

This is a very simple python code snippet for calculating the difference between two dates or timestamps. This will calculate the difference in terms of number of years, months, days, hours, minutes etc. For more details, refer <https://amalgjose.com/2015/02/19/python-code-for-calculating-the-difference-between-two-time-stamps/>

[Raw](https://gist.github.com/amalgjose/c767a4846d6ecaa3b6d7/raw/14d0c376cf97c9753cbf43f00a9e9af71582a4db/DateDifference.py)

[**DateDifference.py**](https://gist.github.com/amalgjose/c767a4846d6ecaa3b6d7#file-datedifference-py)

|  |  |
| --- | --- |
|  | \_\_author\_\_ = 'Amal G Jose' |
|  |  |
|  | from datetime import datetime |
|  | from dateutil import relativedelta |
|  |  |
|  | ##Aug 7 1989 8:10 pm |
|  | date\_1 = datetime(1989, 8, 7, 20, 10) |
|  |  |
|  | ##Dec 5 1990 5:20 am |
|  | date\_2 = datetime(1990, 12, 5, 5, 20) |
|  |  |
|  | #This will find the difference between the two dates |
|  | difference = relativedelta.relativedelta(date\_2, date\_1) |
|  |  |
|  | years = difference.years |
|  | months = difference.months |
|  | days = difference.days |
|  | hours = difference.hours |
|  | minutes = difference.minutes |
|  |  |
|  | print "Difference is %s year, %s months, %s days, %s hours, %s minutes " %(years, months, days, hours, minutes) |

[](https://gist.github.com/marcaum54)

2.

from datetime import datetime, timedelta

from collections import OrderedDict

# Sample start and end dates

start = datetime(year=2017, month=10, day=1)

end = datetime(year=2018, month=3, day=1)

# Get list of months >= start and < end

months = OrderedDict(((start + timedelta(\_)).strftime("%Y-%m-01"), 0) for \_ in range((end - start).days))

# OrderedDict([('2017-10-01', 0), ('2017-11-01', 0), ('2017-12-01', 0), ('2018-01-01', 0), ('2018-02-01', 0)])

3.

USE THE DIFFERENCE BETWEEN [datetime](https://kite.com/python/docs/datetime.datetime) OBJECTS TO GET THE NUMBER OF MONTHS BETWEEN TWO DATES

Call [datetime.datetime(year, month, day)](https://kite.com/python/docs/datetime.datetime) twice to create two [datetime](https://kite.com/python/docs/datetime.datetime)s from two dates. Subtract the [datetime.month](https://kite.com/python/docs/datetime.datetime.month) attribute of one [datetime](https://kite.com/python/docs/datetime.datetime) from the other to get the difference in months. Similarly, subtract the [datetime.year](https://kite.com/python/docs/datetime.datetime.year) attribute of one [datetime](https://kite.com/python/docs/datetime.datetime) from the other and multiply the result by 12 to get the difference in months. Add these two values to get the total number of months between the two dates.

end\_date = datetime.datetime(2010,1,1)

start\_date = datetime.datetime(2009, 4, 1)

num\_months = (end\_date.year - start\_date.year) \* 12 + (end\_date.month - start\_date.month)

**print**(num\_months)

OUTPUT

9

4.

1. get start date in array of integer, set it to i: [2008, 3, 12],

and change it to [2008, 3, 1]

2. get end date in array: [2010, 10, 26]

3. add the date to your result by parsing i

increment the month in i

if month is >= 13, then set it to 1, and increment the year by 1

until either the year in i is > year in end\_date,

or (year in i == year in end\_date and month in i > month in end\_date)