

Cheatsheet : Datetime module in python

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<pre>from datetime import datetime, time, date, timezone</pre>		
<pre>dt_time_obj = datetime(year=2021, month=11, day=1, hour=5, minute=20, second=33, microsecond=2344, tzinfo = timezone.utc)</pre>		
Input	Output	
<pre>print(dt_time_obj)</pre>	2021-11-01 05:20:33.002344+00:00	❖ Be in the datetime limits. Year is also has a limit 1 to 9999.
<pre>f'{dt_time_obj:%Y-%m-%d hour:%H day-%a}'</pre>	'2021-11-01 hour:05 day-Mon'	
<pre>dt_time_obj.year</pre>	2021	❖ Don't add any leading 0s in args.
<pre>dt_time_obj.month</pre>	11	
<pre>dt_time_obj.day</pre>	1	
<pre>dt_time_obj.hour</pre>	5	
<pre>dt_time_obj.minute</pre>	20	❖ If tzinfo is None means, this is local or naïve object by default tzinfo it is None.
<pre>dt_time_obj.second</pre>	33	
<pre>dt_time_obj.microsecond</pre>	2344	
<pre>dt_time_obj.weekday()</pre>	0	❖ Minimum required arguments are: year, month, day
<pre>dt_time_obj.isoweekday()</pre>	1	

<pre>from datetime import timedelta</pre>	
<pre>delta = timedelta(days=50,seconds=27,microseconds=10,milliseconds=29000,minutes=5,hours=8,weeks=1)</pre>	
<pre>print(repr(delta))</pre>	<pre>datetime.timedelta(days=57, seconds=29156, microseconds=10)</pre>
<pre>print(str(delta))</pre>	57 days, 8:05:56.000010
<pre>delta.days</pre>	50
<pre>delta.seconds</pre>	27
<pre>delta.total_seconds()</pre>	4953956.00001

<pre>datetime.now()</pre>	<pre>dt_str = '2021-11-01 T 05:20:33 +0000 UTC Monday'</pre> <pre>dt_obj = datetime.strptime(dt_str, fmt)</pre> <pre>print(dt_obj)</pre> <pre>2021-11-01 05:20:33+00:00</pre>
<pre>datetime.utcnow()</pre>	
<pre>datetime.now(tz=timezone.utc)</pre>	
<pre>dt = dt_time_obj.isoformat()</pre>	<pre>dt_obj = datetime(2021, 11, 1, 5, 20, 33, 2344,tzinfo=timezone.utc)</pre> <pre>fmt = '%Y-%m-%d T %H:%M:%S %z %Z'</pre> <pre>dt_obj.strftime(fmt)</pre> <pre>2021-11-01 T 05:20:33 +0000 UTC</pre>
<pre>dt.date()</pre>	
<pre>dt.time()</pre>	

<pre>from datetime import datetime</pre>	
<pre>from zoneinfo import ZoneInfo</pre>	
<pre>dt_obj_z = datetime(2021,11,1,21,2,2,tzinfo=ZoneInfo('America/New_york'))</pre>	
<pre>print(dt_obj_z)</pre>	2021-11-01 21:02:02-04:0
<pre>dt = dt_obj_z.astimezone(ZoneInfo('Asia/Kolkata'))</pre>	
<pre>print(dt) ➔ 2021-11-02 06:32:02+05:30</pre>	