

```
1 import pandas as pd
```

```
2 pd.to_datetime(  
    '2020-01-02 03:04:05.123456789')
```

```
2 Timestamp('2020-01-02 03:04:05.123456789')
```

```
3 pd.to_datetime([  
    '2020-01-02',  
    '2020/01/02',  
    '2020.01.02',  
    '20200102',  
])
```

```
3 DatetimeIndex(['2020-01-02', '2020-01-02', '2020-01-02', '2020-01-02'], dtype='datetime64[ns]', freq=None)
```

```
4 pd.to_datetime(pd.Series([  
    '2020-01-02',  
    '2020/01/02',  
    '2020.01.02',  
    '20200102',  
]))
```

```
4 0    2020-01-02  
  1    2020-01-02  
  2    2020-01-02  
  3    2020-01-02  
dtype: datetime64[ns]
```

```
5 pd.to_datetime(pd.Series([  
    '2020-01-02',  
    '2020#01#02'  
]))
```

TypeError

Traceback (most recent call last)

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/arrays/datetimes.py in objctimestamps

1857 try:

-> 1858 values, tz_parsed = conversion.datetime_to_datetime64(data)

1859 # If tzaware, these values represent unix timestamps, so we

pandas/_libs/tslibs/conversion.pyx in pandas._libs.tslibs.conversion.datetime_to_datetime64()

TypeError: Unrecognized value type: <class 'str'>

During handling of the above exception, another exception occurred:

ParserError

Traceback (most recent call last)

<ipython-input-5-c4cdd49d7d4e> in <module>

1 pd.to_datetime(pd.Series([

2 '2020-01-02',

----> 3 '2020#01#02'

4]))

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/tools/datetimes.py in to_datetime

726 result = arg.map(cache_array)

727 else:

--> 728 values = convert_listlike(arg._values, format)

729 result = arg._constructor(values, index=arg.index, name=arg.name)

730 elif isinstance(arg, (ABCDDataFrame, abc.MutableMapping)):

```

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/tools/datetimes.py in _convert
    445         errors=errors,
    446         require_iso8601=require_iso8601,
--> 447         allow_object=True,
    448     )
    449

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/arrays/datetimes.py in obj
    1861         return values.view("i8"), tz_parsed
    1862     except (ValueError, TypeError):
-> 1863         raise e
    1864
    1865     if tz_parsed is not None:

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/arrays/datetimes.py in obj
    1852         dayfirst=dayfirst,
    1853         yearfirst=yearfirst,
-> 1854         require_iso8601=require_iso8601,
    1855     )
    1856     except ValueError as e:

pandas/_libs/tslib.pyx in pandas._libs.tslib.array_to_datetime()

pandas/_libs/tslib.pyx in pandas._libs.tslib.array_to_datetime()

pandas/_libs/tslib.pyx in pandas._libs.tslib.array_to_datetime_object()

pandas/_libs/tslib.pyx in pandas._libs.tslib.array_to_datetime_object()

pandas/_libs/tslibs/parsing.pyx in pandas._libs.tslibs.parsing.parse_datetime_string()

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/dateutil/parser/_parser.py in parse(tim
    1372     return parser(parserinfo).parse(timestr, **kwargs)
    1373     else:
-> 1374     return DEFAULTPARSER.parse(timestr, **kwargs)
    1375
    1376

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/dateutil/parser/_parser.py in parse(se
    647
    648     if res is None:
--> 649         raise ParserError("Unknown string format: %s", timestr)
    650
    651     if len(res) == 0:

ParserError: Unknown string format: 2020#01#02

```

```

6 pd.to_datetime(pd.Series([
    '2020-01-02',
    '2020#01#02'
]), errors='raise')

```

TypeError Traceback (most recent call last)

```

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/arrays/datetimes.py in obj
    1857     try:
-> 1858         values, tz_parsed = conversion.datetime_to_datetime64(data)
    1859         # If tzaware, these values represent unix timestamps, so we

pandas/_libs/tslibs/conversion.pyx in pandas._libs.tslibs.conversion.datetime_to_datetime64()

TypeError: Unrecognized value type: <class 'str'>

```

During handling of the above exception, another exception occurred:

ParserError Traceback (most recent call last)

```

<ipython-input-6-432e6ff0631a> in <module>
      2     '2020-01-02',
      3     '2020#01#02'
----> 4 ]), errors='raise')

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/tools/datetimes.py in to_datetime
    726         result = arg.map(cache_array)
    727     else:
--> 728         values = convert_listlike(arg._values, format)
    729         result = arg._constructor(values, index=arg.index, name=arg.name)
    730     elif isinstance(arg, (ABCDDataFrame, abc.MutableMapping)):

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    448     )
    449

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/pandas/core/arrays/datetimes.py in object_to_datetime
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    1862     except (ValueError, TypeError):
-> 1863         raise e
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    1865     if tz_parsed is not None:

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    1853         yearfirst=yearfirst,
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~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/dateutil/parser/_parser.py in parse(timestr, **kwargs)
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    1373     else:
-> 1374     return DEFAULTPARSER.parse(timestr, **kwargs)
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    1376

~/anaconda3/envs/pandas与办公自动化/lib/python3.7/site-packages/dateutil/parser/_parser.py in parse(sep, timestr, **kwargs)
    647
    648     if res is None:
--> 649         raise ParserError("Unknown string format: %s", timestr)
    650
    651     if len(res) == 0:

ParserError: Unknown string format: 2020#01#02

```

```

8  s = pd.to_datetime(pd.Series([
    '2020-01-02',
    '2020#01#02'
]), errors='ignore')
s

```

```

8  0    2020-01-02
   1    2020#01#02
dtype: object

```

```
11 type(s[0])
```

```
11 str
```

```
10 s[1]
```

```
10 '2020#01#02'
```

```
12 s = pd.to_datetime(pd.Series([
    '2020-01-02',
    '2020#01#02'
]), errors='coerce')
s
```

```
12 0    2020-01-02
   1           NaT
   dtype: datetime64[ns]
```

```
13 s[0]
```

```
13 Timestamp('2020-01-02 00:00:00')
```

```
14 s[1]
```

```
14 NaT
```

```
15 s = pd.to_datetime(pd.Series([
    '2020#01#01',
    '2020#01#02'
]), format='%Y#%m#%d')
s
```

```
15 0    2020-01-01
   1    2020-01-02
   dtype: datetime64[ns]
```