

How can I find the day of the week in Pandas?

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Pandas is a popular Python library used for data analysis and manipulation. One of its useful features is the ability to find the day of the week for a given date. This can be achieved by using the "dayofweek" method, which returns the day of the week as an integer, with Monday being represented as 0 and Sunday as 6. This method can be applied to a Pandas Series or DataFrame containing date values. Additionally, Pandas also allows for further customization by specifying the start of the week and the naming convention for the days of the week. By utilizing these built-in functions, users can easily and efficiently find the day of the week in their data sets, making it a valuable tool for data analysis.

Find Day of the Week in Pandas

You can use the following methods to find the day of the week in pandas:

Method 1: Find Day of Week as Integer

```
df.dt.weekday
```

Method 2: Find Day of Week as String Name

```
df.dt.day_name()
```

The following examples show how to use each method in practice with the following pandas DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'date':
```

```
pd.date_range(start='1/5/2022', freq='D', periods=10),  
'sales': })
```

```
#view DataFrame
```

```
print(df)
```

```
date sales
```

```
0 2022-01-05 6
```

```
1 2022-01-06 8
```

```
2 2022-01-07 9
```

```
3 2022-01-08 5
```

```
4 2022-01-09 4
```

```
5 2022-01-10 8
```

```
6 2022-01-11 8
```

```
7 2022-01-12 3
```

```
8 2022-01-13 5
```

```
9 2022-01-14 9
```

```
Example 1: Find Day of Week as Integer
```

The following code shows how to add a new column to the DataFrame that shows the day of the week in the date column as an integer:

```
#add new column that displays day of week as integer
```

```
df = df.dt.weekday
```

```
#view updated DataFrame
```

```
print(df)
```

```
date sales day_of_week
```

```
0 2022-01-05 6 2
```

```
1 2022-01-06 8 3
```

```
2 2022-01-07 9 4
```

```
3 2022-01-08 5 5
```

```
4 2022-01-09 4 6
```

```
5 2022-01-10 8 0
```

```
6 2022-01-11 8 1
```

```
7 2022-01-12 3 2
```

```
8 2022-01-13 5 3
```

```
9 2022-01-14 9 4
```

The new `day_of_week` column displays the day of the week where:

0: Monday 1: Tuesday 2: Wednesday 3: Thursday 4: Friday 5: Saturday 6: Sunday

Example 2: Find Day of Week as String Name

The following code shows how to add a new column to

the DataFrame that shows the day of the week in the date column as an integer:

```
#add new column that displays day of week as string name
```

```
df = df.dt.day_name()
```

```
#view updated DataFrame
```

```
print(df)
```

```
date sales day_of_week
0 2022-01-05 6 Wednesday
1 2022-01-06 8 Thursday
2 2022-01-07 9 Friday
3 2022-01-08 5 Saturday
4 2022-01-09 4 Sunday
5 2022-01-10 8 Monday
6 2022-01-11 8 Tuesday
7 2022-01-12 3 Wednesday
8 2022-01-13 5 Thursday
9 2022-01-14 9 Friday
```

The new `day_of_week` column displays the day of the week as a string name.