

How to Convert Object to Float in Pandas (With Examples)

DataSet:-

```
➤ import pandas as pd
➤
➤ #create DataFrame
➤ df = pd.DataFrame({'team': ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H'],
➤                    'points': ['18', '22.2', '19.1', '14', '14', '11.5', '20',
➤                               '28'],
➤                    'assists': [5, 7, 7, 9, 12, 9, 9, 4]})
➤
➤ #view DataFrame
➤ print(df)
➤
➤   team points assists
➤ 0  A    18      5
➤ 1  B   22.2     7
➤ 2  C   19.1     7
➤ 3  D    14     9
➤ 4  E    14    12
➤ 5  F   11.5     9
➤ 6  G    20     9
➤ 7  H    28     4
➤
➤ #check data type of each column
➤ print(df.dtypes)
➤
➤ team      object
➤ points    object
➤ assists   int64
➤ dtype: object
```

Method 1: Use `astype()` to Convert Object to Float

The following code shows how to use the `astype()` function to convert the points column in the DataFrame from an object to a float:

```
#convert points column from object to float
```

```
df['points'] = df['points'].astype(float)
```

```
#view updated DataFrame
```

```
print(df)
```

	team	points	assists
0	A	18.0	5
1	B	22.2	7
2	C	19.1	7
3	D	14.0	9
4	E	14.0	12
5	F	11.5	9
6	G	20.0	9
7	H	28.0	4

```
#view updated data types
```

```
print(df.dtypes)
```

team	object
points	float64
assists	int64
dtype:	object

Notice that the points column now has a data type of **float64**

Method 2: Use `to_numeric()` to Convert Object to Float

The following code shows how to use the `to_numeric()` function to convert the points column in the DataFrame from an object to a float:

```
#convert points column from object to float
df['points'] = pd.to_numeric(df['points'], errors='coerce')
```

```
#view updated DataFrame
print(df)
```

	team	points	assists
0	A	18.0	5
1	B	22.2	7
2	C	19.1	7
3	D	14.0	9
4	E	14.0	12
5	F	11.5	9
6	G	20.0	9
7	H	28.0	4

```
#view updated data types
print(df.dtypes)
```

team	object
points	float64
assists	int64
dtype:	object

Notice that the points column now has a data type of **float64**.

Reference:-

<https://www.statology.org/pandas-convert-object-to-float/>