# 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/