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

You can use one of the following methods to convert a column in a pandas DataFrame from object to float:

Method 1: Use `astype()`

```
df["column_name"] = df["column_name"].astype(float)
```

Method 2: Use `to_numeric()`

```
df["column_name"] = pd.to_numeric(df["column_name"])
```

Both methods produce the same result.

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

```
import pandas as pd

# Create DataFrame
data = {'points': ['14', '14.5', '14.5', '14', '14', '14', '14'],
        'assists': [14, '14.5', '14.5', '14', '14', '14.5', '14']}
df = pd.DataFrame(data)

# Use DataFrame
print(df)

# Use pandas astype
df = df.astype(float)

# Check data type of each column
print(df.dtypes)

# Use pandas to_numeric
df = df.to_numeric()

# Check data type of each column
print(df.dtypes)
```

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)

# Use updated DataFrame
print(df)

# Use pandas astype
df = df.astype(float)

# Check updated data types
print(df.dtypes)

# Use pandas to_numeric
df = df.to_numeric()

# Check data type of each column
print(df.dtypes)
```

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")

# Use updated DataFrame
print(df)

# Use pandas astype
df = df.astype(float)

# Check updated data types
print(df.dtypes)

# Use pandas to_numeric
df = df.to_numeric()

# Check data type of each column
print(df.dtypes)
```

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

Also note that this method produces the exact same result as the previous method.

Additional Resources

The following tutorials explain how to perform other common tasks in pandas:

- [How to Convert Boolean Values to Integer Values in Pandas](#)
- [How to Convert DataFrame to Series in Pandas](#)
- [How to Convert Columns to Int in Pandas](#)

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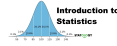
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