

How can two columns be combined in Pandas?

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In Pandas, two columns can be combined by using the "concat" function. This function allows for the merging of two columns from the same or different dataframes into a single column. Another way to combine two columns is by using the "join" function, which combines columns based on a common index. Additionally, the "merge" function can be used to join columns based on common values in the columns. These methods provide flexibility and efficiency in combining columns in Pandas.

Combine Two Columns in Pandas (With Examples)

You can use the following syntax to combine two text columns into one in a pandas DataFrame:

```
df = df + df
```

If one of the columns isn't already a string, you can convert it using the `astype(str)` command:

```
df = df.astype(str) + df
```

And you can use the following syntax to combine multiple text columns into one:

```
df = df.agg(' '.join, axis=1)
```

The following examples show how to combine text columns in practice.

Example 1: Combine Two Columns

The following code shows how to combine two text columns into one in a pandas DataFrame:

```
import pandas as pd

#create dataframe
df = pd.DataFrame({'team': ,
'first': ,
'last': ,
'points': })

#combine first and last name column into new column,
with space in between
df = df + ' ' + df

#view resulting dataframe
df
team first last points full_name
0 Mavs Dirk Nowitzki 26 Dirk Nowitzki
1 Lakers Kobe Bryant 31 Kobe Bryant
2 Spurs Tim Duncan 22 Tim Duncan
3 Cavs LeBron James 29 LeBron James
```

We joined the first and last name column with a space

in between, but we could also use a different separator such as a dash:

#combine first and last name column into new column, with dash in between

```
df = df + '-' + df
```

#view resulting dataframe

```
df team first last points full_name
```

```
0 Mavs Dirk Nowitzki 26 Dirk-Nowitzki
```

```
1 Lakers Kobe Bryant 31 Kobe-Bryant
```

```
2 Spurs Tim Duncan 22 Tim-Duncan
```

```
3 Cavs LeBron James 29 LeBron-James
```

Example 2: Convert to Text & Combine Two Columns

The following code shows how to convert one column to text, then join it to another column:

```
import pandas as pd
```

#create dataframe

```
df = pd.DataFrame({'team': ,
```

```
'first': ,
```

```
'last': ,
```

```
'points': })
```

```
#convert points to text, then join to last name column
```

```
df = df + df.astype(str)
```

```
#view resulting dataframe
```

```
dfteam first last points name_points
```

```
0 Mavs Dirk Nowitzki26 Nowitzki26
```

```
1 Lakers Kobe Bryant 31 Bryant31
```

```
2 Spurs Tim Duncan 22 Duncan22
```

```
3 Cavs LeBron James 29 James29
```

Example 3: Combine More Than Two Columns

The following code shows how to join multiple columns into one column:

```
import pandas as pd
```

```
#create dataframe
```

```
df = pd.DataFrame({'team': ,
```

```
'first': ,
```

```
'last': ,
```

```
'points': })
```

```
#join team, first name, and last name into one column
```

```
df = df].agg(' '.join, axis=1)
```

```
#view resulting DataFrame
```

```
df
```

team	first	last	points	team_name
------	-------	------	--------	-----------

```
0 Mavs Dirk Nowitzki 26 Mavs Dirk Nowitzki
```

```
1 Lakers Kobe Bryant 31 Lakers Kobe Bryant
```

```
2 Spurs Tim Duncan 22 Spurs Tim Duncan
```

```
3 Cavs LeBron James 29 Cavs LeBron James
```

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