

How to Easily Drop Columns by Index in Pandas

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The best way to drop columns by index in Pandas is to use the `drop()` method. This method takes a list of the indices of the columns that you want to drop, and it will modify the DataFrame by permanently deleting them. Additionally, the `inplace` parameter can be set to `True` if you want the changes to be made in the same DataFrame object, otherwise a new DataFrame object will be returned.

You can use the following syntax to drop one column from a pandas DataFrame by index number:

```
#drop first column from DataFrame  
df.drop(df.columns, axis=1, inplace=True)
```

And you can use the following syntax to drop multiple columns from a pandas DataFrame by index numbers:

```
#drop first, second, and fourth column from DataFrame  
cols =  
df.drop(df.columns, axis=1, inplace=True)
```

If your DataFrame has duplicate column names, you can use the following syntax to drop a column by index number:

```
#define list of columns  
cols = ]]  
  
#drop second column  
cols.remove(1)  
  
#view resulting DataFrame  
df.iloc
```

The following examples show how to drop columns by index in practice.

Example 1: Drop One Column by Index

The following code shows how to drop the first column in a pandas DataFrame:

```
import pandas as pd  
  
#create DataFrame  
df = pd.DataFrame({'team': ,
```

```
'first': ,
'last': ,
'points': })

#drop first column from DataFrame
df.drop(df.columns, axis=1, inplace=True)

#view resulting dataframe
df

first last points
0 Dirk Nowitzki 26
1 Kobe Bryant 31
2 Tim Duncan 22
3 Lebron James 29
```

Example 2: Drop Multiple Columns by Index

The following code shows how to drop multiple columns in a pandas DataFrame by index:

```
import pandas as pd

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

#drop first, second and fourth columns from DataFrame
cols =
df.drop(df.columns, axis=1, inplace=True)

#view resulting dataframe
df

last
0 Nowitzki
1 Bryant
2 Duncan
3 James
```

Example 3: Drop One Column by Index with Duplicates

The following code shows how to drop a column by index number in a pandas DataFrame when duplicate column names exist:

```
import pandas as pd
```

```
#create DataFrame
```

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

```
'last': ,
```

```
'last': ,
```

```
'points': },
```

```
columns=)
```

```
#define list of columns range
```

```
cols = ]]
```

```
#remove second column in DataFrame
```

```
cols.remove(1)
```

```
#view resulting DataFrame
```

```
df.iloc
```

```
team last points
```

```
0 Mavs Nowitzki 26
```

```
1 Lakers Bryant 31
```

```
2 Spurs Duncan 22
```

```
3 Cavs James 29
```