Transforming Data With Pandas: Takeaways

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Syntax

Applying Functions Element-wise

Apply a function element-wise to a series:

```
df[col_name].apply(function_name) df[col_name].map(function_name)
```

Apply a function element-wise to a dataframe:

```
df.applymap(function name)
```

Applying functions along an axis

Apply a function along an axis, column-wise:

```
df.apply(function_name)
```

Reshaping Dataframes

Reshape a dataframe:

```
pd.melt(df, id_vars=[col1, col2], value_vars=[col3, col4])
```

Concepts

The series.apply() and series.map() methods can be used to apply a function element-wise to a *series*. The DataFrame.applymap() method can be used to apply a function element-wise to a *dataframe*.

The DataFrame.apply() method has different capabilities than the Series.apply() method. Instead of applying functions element-wise, the df.apply() method applies functions along an axis, either column-wise or row-wise. When we create a function to use with df.apply(), we set it up to accept a Series, most commonly a column. Use the apply() method when a vectorized function does not exist because a vectorized function can perform an equivalent task faster than the apply() method. Sometimes, it may be necessary to reshape a dataframe to use a vectorized method.

Resources

Tidy Data

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