

# Python Data Analysis Basics



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## Syntax

### STRING FORMATTING AND FORMAT SPECIFICATIONS

- Insert values into a string in order:

```
continents = "France is in {} and China is in {}".format("Europe", "Asia")
```

- Insert values into a string by position:

```
squares = "{0} times {0} equals {1}".format(3,9)
```

- Insert values into a string by name:

```
population = "{name}'s population is {pop} million".format(name="Brazil", pop=209)
```

- Format specification for precision of two decimal places:

```
two_decimal_places = "I own {:.2f}% of the company".format(32.5548651132)
```

- Format specification for comma separator:

```
india_pop = "The approximate population of {} is {}".format("India", 1324000000)
```

- Order for format specification when using precision and comma separator:

```
balance_string = "Your bank balance is {:,.2f}".format(12345.678)
```

## Concepts

- The `str.format()` method allows you to insert values into strings without explicitly converting them.
- The `str.format()` method also accepts optional format specifications which you can use to format values so they are more easily read.

## Resources

- [Python Documentation: Format Specifications](#)
- [PyFormat: Python String Formatting Reference](#)



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