

# Format Specifiers in Python

Format specifiers allow you to format a printed value based on the flags inserted.

The format flag is placed after the value as {value:flags}

## Some flags include:

- `:.3f` rounds a number to 3 decimal places and `f` assigns it as floating point
- `:10` allocates 10 spaces for the result to be displayed in
- `:010` allocates 10 spaces for the result and fills in the spaces with zeros
- `:<` left justify
- `:>` right justify
- `:^` centre align
- `:+` use a plus sign to indicate a positive value
- `:=` place sign to leftmost position
- `:` insert a space before positive numbers
- `;` comma separator (for thousands)

```
amount1 = 55.25896
amount2 = -45.26
amount3 = 1900.563

#centred, in 10 spaces, 2decimals
print(f"Amount 1: ${amount1:^10.2f}")

#right justified, 10 spaces, 0 in blanks
print(f"Amount 2: ${amount2:>010}")

#left justified, plus sign inserted, 1000's comma
print(f"Amount 3: ${amount3:<+,}")
```

## Outputs:

```
Amount 1: $ 55.26
Amount 2: $0000-45.26
Amount 3: $+1,900.563
```

## Exercise:

Using the values: amount1 = 5556.25896 amount2 = 1445.26 amount3 = 1900.264

Use format specifiers to align the financial amounts with commas to look like:

```
Amount 1: $ 5,556.26
Amount 2: $ 1,445.26
Amount 3: $ 1,900.26
```