

How to Implement Ruby-Style String Interpolation

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What is String Interpolation

In computer programming, string interpolation (or variable interpolation, variable substitution, or variable expansion) is the process of evaluating a string literal containing one or more placeholders, yielding a result in which the placeholders are replaced with their corresponding values.

– https://en.wikipedia.org/wiki/String_interpolation

Ruby Style

>> "#{a}"

=> "2"

>> "#{a + b}"

=> "5"

Python(< 3.6) Style

```
>>> "{0}".format(a)
```

```
'2'
```

```
>>> "{0}".format(a + b)
```

```
'5'
```

Python 3.6+ Style

>>> f"{a}"

'2'

>>> f"{a + b}"

'5'

Our Style

```
>>> f("#{a}")  
'2'
```

```
>>> f("#{a + b}")  
'5'
```

How to Implement Our Style

You Need Know

frame

```
sys._getframe()
```

re

re.finditer

eval

```
eval("2 + 3")
```

sample code

<https://github.com/mozillazg/f>

Thank You!