3

'fighter'

2   'fly'

5

```
print "{z}^2 = {x}^2 + {y}^2"
```

```
print "{z}^2 = {x}^2 + {y}^2"    **locals()
```

```
# Equivalent to .format(x=3, foo='fighter', y=4, ...)
```

```
'x' 3
'foo' 'fighter'
'y' 4
'learn'   2  'fly'
'z' 5
```

Cute Trick: Unpacking Variadic Keyword Arguments

```python
x = 3

foo = 'fighter'

y = 4

learn = 2, 'fly'

z = 5
```

local symbol table

```
{
    'x': 3,
    'foo': 'fighter',
    'y': 4,
    'learn': (2, 'fly'),
    'z': 5, …
}
```

```python
print("{z}^2 = {x}^2 + {y}^2".format(x=x, y=y, z=z))

print("{z}^2 = {x}^2 + {y}^2".format(**locals()))

# Equivalent to .format(x=3, foo='fighter', y=4, ...)
```

f-strings (`f""`) do something like this!

Putting it All Together