Python: Control Flow
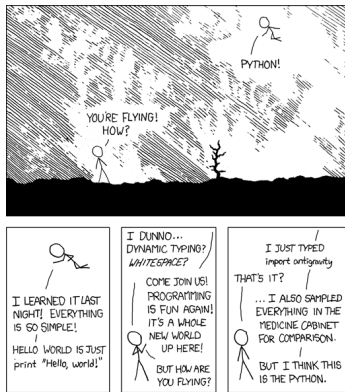
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What Makes Python Odd

- Some languages use brackets / parens
- Python uses whitespace
- Loops / if statements

If statements

```
>>> sheeps_clothing = "wool"
>>> if "wolf" in sheeps_clothing:
...     print "RUN"
... elif len(sheeps_clothing) > 4:
...     print "Haircut time"
... else:
...     print "All is well"
...
All is well
```

For loops

Need to take a list as input

```
>>> sum = 0
>>> for i in range(100):
...     sum += i
...
>>> print sum
4950
```

List comprehensions

```
>>> sum(x for x in range(10))
45
>>> sum(x for x in range(10) if x % 2 == 0)
20
```

String formatting

```
>>> "%s foo %i %0.3f" % ("blah", 8, 0.5)
'blah foo 8 0.500'
```