

# How do I Teach a Computer to Count?

The Counting Pattern in Python

CSE



## Counting in Python

*Def:* Counting is two things:

1. Changing by a fixed amount
2. Remembering where you are

Counting involves:

1. Addition
2. A variable

# unit 2

e.g.

```
c = 1      #start the count
```

```
c = c+1    #increment the count
```

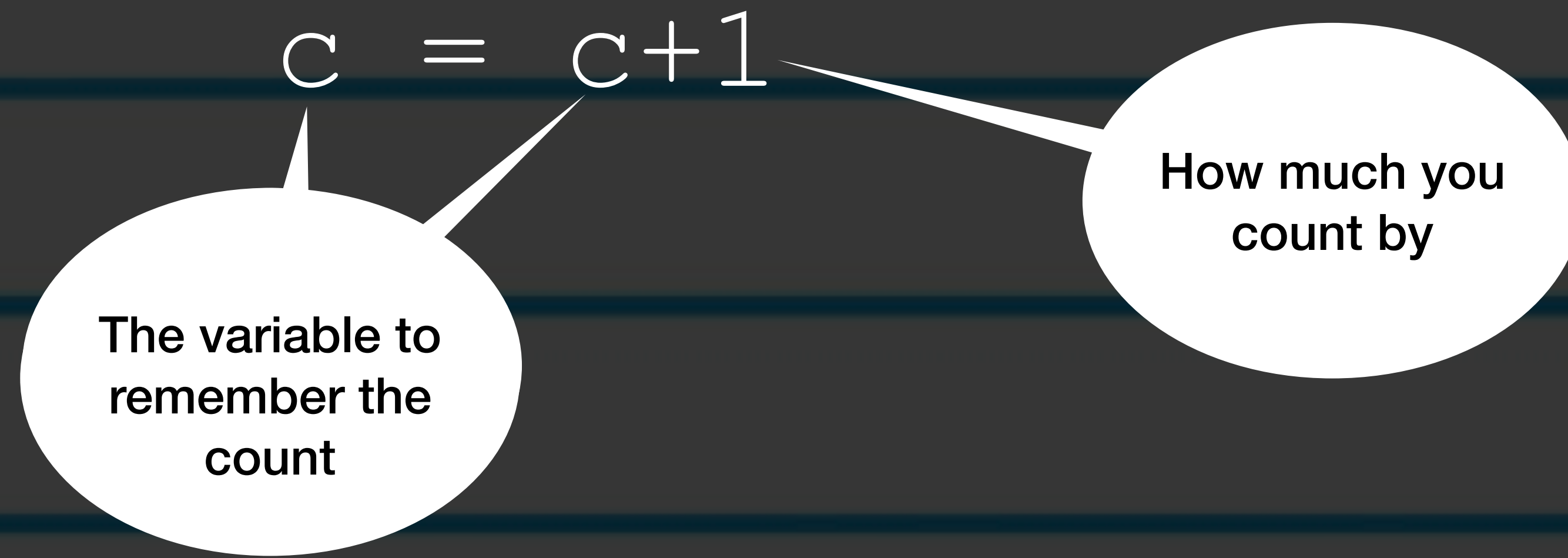
```
c = c+1    #increment the count
```

```
print(c)   #show the count
```

Means "make go  
up"

# unit 2

*Def:* The Counting Pattern is a Python instruction that looks like this:





# unit 2

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e.g.

```
1: c = 1
2: c = c + 1
3: c = c + 1
4: c = c + 1
5: c = c + 1
6: print (c)
```

e.g.

```
1: c = 1
2: for _ in range (4):
3:     c = c + 1
4: print (c)
```

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# unit 2

e.g.

```
1: p = 5
2: p = p + 2
3: P = p + 2
4: print (p)
```

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e.g.

```
1: k = 7
2: for _ in range (2):
3:     k = k - 1
4: print (k)
```

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