

# Pythonic vs Non-Pythonic Cheat Sheet

## Manual Counter

### ■ Non-Pythonic:

```
i = 0
for item in items:
    print(i, item)
    i += 1
```

### ■ Pythonic:

```
for i, item in enumerate(items):
    print(i, item)
```

## Iterating Two Lists

### ■ Non-Pythonic:

```
for i in range(len(names)):
    print(names[i], scores[i])
```

### ■ Pythonic:

```
for name, score in zip(names, scores):
    print(name, score)
```

## Swapping Variables

### ■ Non-Pythonic:

```
temp = a
a = b
b = temp
```

### ■ Pythonic:

```
a, b = b, a
```

## Checking Conditions

### ■ Non-Pythonic:

```
valid = False
for x in nums:
    if x > 10:
        valid = True
        break
```

### ■ Pythonic:

```
valid = any(x > 10 for x in nums)
```

## Dictionary Comprehension

### ■ Pythonic:

```
squares = {x: x**2 for x in range(5)}
```

## File Handling

### ■ Non-Pythonic:

```
f = open('data.txt', 'r')
content = f.read()
f.close()
```

## Pythonic vs Non-Pythonic Cheat Sheet (cont.)

### ■ Pythonic:

```
with open('data.txt', 'r') as f:  
    content = f.read()
```

## Empty Checks

### ■ Non-Pythonic:

```
if len(items) == 0:  
    print('Empty')
```

### ■ Pythonic:

```
if not items:  
    print('Empty')
```