# How to write Pythonic Python Code

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## Agenda

Pythonic

Examples

## **Pythonic**

- Pythonic means code that doesn't just get the syntax right but that follows the conventions of the Python community and uses the language in the way it is intended to be used.
- Beautiful, clear, concise and maintainable.
- PEP8 is a good standard to follow

## Variables Exchange

$$>>> a, b = b, a$$

#### Print all elements in list

```
>>> for i in [0, 1, 2, 3, Python 2: 4, 5]: >>> for i in xrange(6): >>> print (i) >>> print (i)

Python 3: >>> for i in range(6): >>> print (i)
```

## String join

```
>>>names = ['Richard', 'Jenny', 'Coco',...]
>>>s = names[0]
>>>for name in names[1:]:
>>> s += ', ' + name
>>>print (s)
```

>>>print (', '.join(names))

#### Get List Elements

```
>>>p = 'Richard', 'male', 18, 
'info@qaclub.org'
```

```
>>>name = p[0]
>>>gender = p[1]
>>>age = p[2]
>>>email = p[3]
```

>>>name, gender, age, email = p

## File open/close

```
>>> f = open('data.txt')
>>> try:
>>> data = f.read()
>>> finally:
>>> f.close()
>>> with open('data.txt') as f:
>>> data = f.read()
```

#### If / else

```
>>>if gender == 'm':
>>> text = 'male'
>>>else:
>>> text = 'female'
```

>>>text = 'male' if gender == 'm' else 'female'

#### Boolean

## Get Dictionary Element

```
>>>dict = {'name': 'foo'}
>>>if d.has_key('name'):
>>> print(d['name'])
>>>else:
>>> print('unknown')
```

>>>dict.get("name", "unknown")

## Thank you!