

Introduction to the world of Python

Cristian Marin Lemeni

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Python

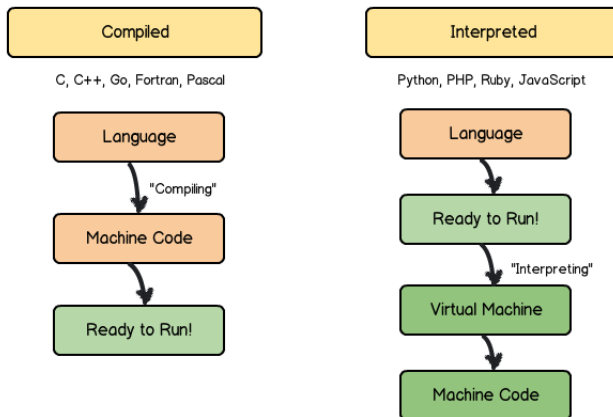
1 What is Python?

2 Why use Python?

3 Cool projects made with Python

What is Python?

Python is an interpreted programming language.



Also Python is an object-oriented programming language.

Procedural vs. Object-Oriented

- Procedural



- Object Oriented



Why use Python?

■ Readable and Maintainable Code

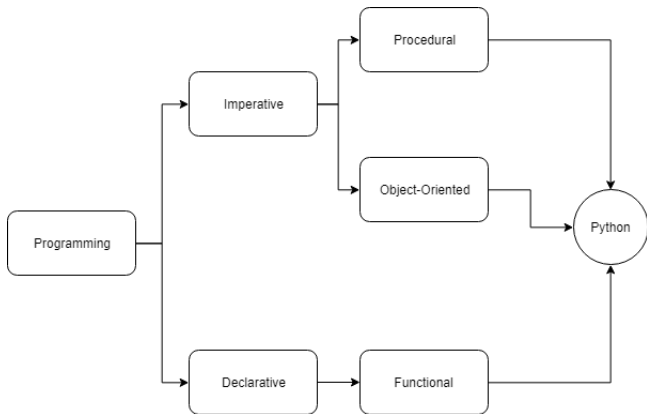
Java

```
1 import java.util.ArrayList;
2
3 public class Main {
4     public static void main(Str
5         ring[] args) {
6         ArrayList al = new Arr
7             ayList();
8         al.add("a");
9         al.add("b");
10        al.add("c");
11        System.out.println(al)
12    }
13 }
```

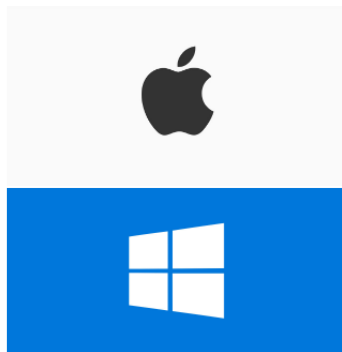
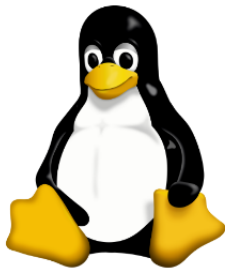
Python

```
1 aList = []
2
3 aList.append("a")
4 aList.append("b")
5 aList.append("c")
6
7 print(aList)
```

■ Multiple Programming Paradigms



- Compatible with Major Platforms and Systems



■ Robust Standard Library

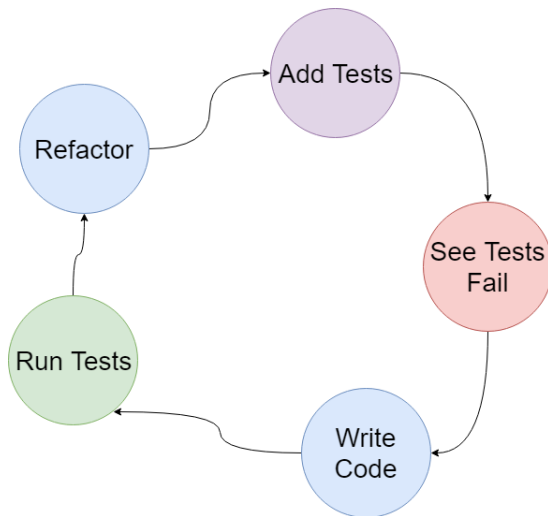
data types	strings	networking	threads
operating systems	compression	GUI	arguments
CGI	complex numbers	FTP	cryptography
testing	multimedia	databases	CSV files
calendar	email	XML	serialization

■ Many Frameworks and Tools

django



■ Adopt Test Driven Development



Cool projects made with Python

- Serpent.AI - Game Agent Framework (Python)
- Manim - Mathematical Animation Engine Open Source
- InstaPy - Instagram Bot