



3.C++/Python极简基础

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• C++/Python对比





VS

运行效率 开发效率 上手难度



• C++/Python对比



```
hcx@hcx-vpc:~/linux$ sudo apt-get install g++
[sudo] hcx 的密码:
正在读取软件包列表... 完成
正在分析软件包的依赖关系树
正在读取状态信息... 完成
将会同时安装下列软件:
cpp cpp-7 g++-7 gcc gcc-7-base gcc-8-base libasan4 libatomic1 libc-dev-bin libc6-dev libcc1-0 libcilkrts5 libgcc-7-dev libgcc1 libgomp1 libitm1 liblsan0 libmpx2 libquadmath0 libstdc++-7-dev libstdc++6 libtsan0 libubsan0 linux-libc-dev manpages-dev
```

安装g++编译器

```
hcx@hcx-vpc:~/linux$ sudo apt-get install python
正在读取软件包列表... 完成
正在分析软件包的依赖关系树
正在读取状态信息... 完成
将会同时安装下列软件:
libpython-stdlib libpython2.7 libpython2.7-minimal libpython2.7-stdlib python-minimal python2.7
python2.7-minimal
```



C++

```
#include <iostream>
using namespace std;
int main()
    int a = 5;
    for(a; a<10; a++)
        cout << "a = " << a << endl;
    return 0;
```

Python

```
for a in range(5, 10):
    if a < 10:
        print 'a = ', a
        a += 1
    else:
        break</pre>
```

```
hcx@hcx-vpc:~/linux$ g++ c++_for.cpp -o c++_for
hcx@hcx-vpc:~/linux$ ./c++_for
a = 5
a = 6
a = 7
a = 8
a = 9
hcx@hcx-vpc:~/linux$ python python_for.py
a = 5
a = 6
a = 7
a = 8
a = 9
```

• while循环



C++

```
#include <iostream>
using namespace std;
int main()
    int a = 5;
    while (a < 10)
        cout << "a = " << a << endl;
        a++;
    return 0;
```

Python

```
a = 5
while a < 10:
    print 'a = ', a
    a += 1</pre>
```

```
hcx@hcx-vpc:~/linux$ g++ c++_while.cpp -o c++_while
hcx@hcx-vpc:~/linux$ ./c++_while
a = 5
a = 6
a = 7
a = 8
a = 9
hcx@hcx-vpc:~/linux$ python python_while.py
a = 5
a = 6
a = 7
a = 8
a = 9
```

• 面向对象



C++

```
#include <iostream>
class A
public:
    int i;
    void test()
        std::cout << i << std::endl;</pre>
int main()
    A a;
    a.i = 10;
    a.test();
    return 0;
```

Python

```
class A:
    i = 10
    def test(self):
        print self.i

a = A()
a.test()
```

```
hcx@hcx-vpc:~/linux$ g++ c++_class.cpp -o c++_class
hcx@hcx-vpc:~/linux$ ./c++_class
10
hcx@hcx-vpc:~/linux$ python python_class.py
10
```

感谢观看

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6 古月春旭



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