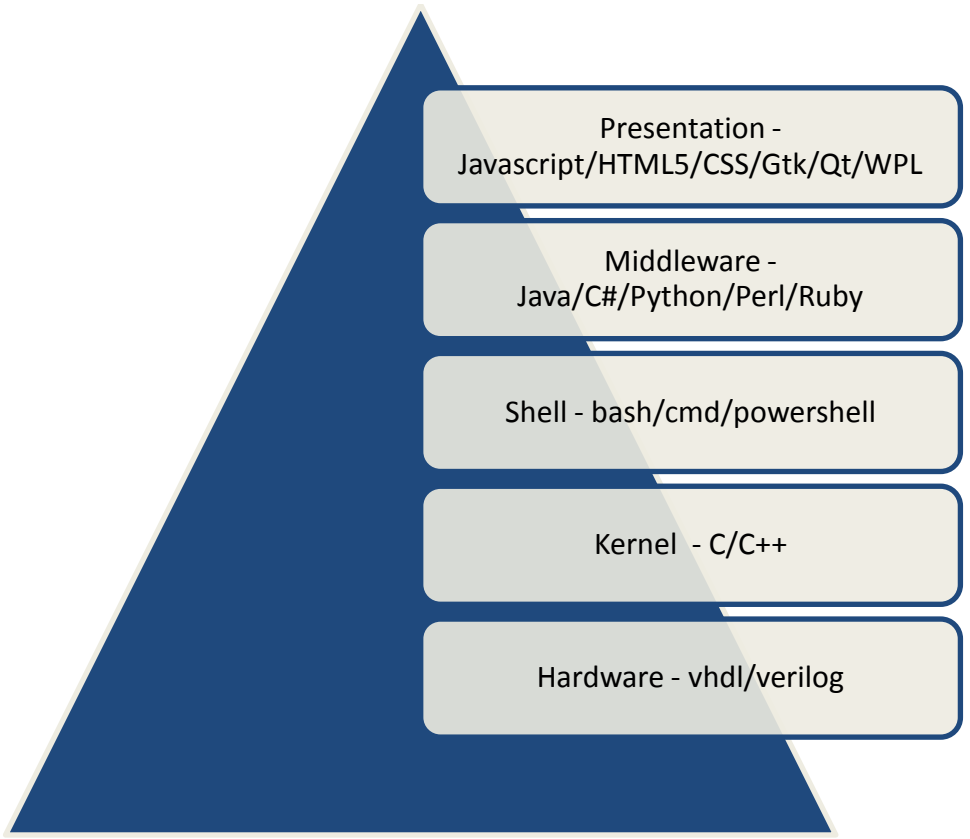
Software development the place of C/C++

Developing software means that we have to think in our Stack of technologies to provide a solution.



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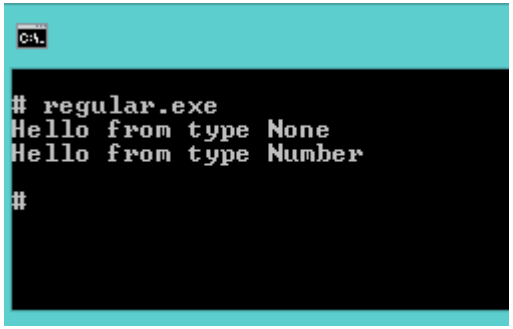
So one use for C++/C is to build libraries depending the OS that we have, But there is a weakness in C++, depending the compiler you used, maybe your application is not BINARY COMPATIBLE.

A solution to this problem for example is exposing a small C interface from your C++ code, in order to achieve this compatibility.

```cpp
#include <iostream>
#include <string>

using namespace std;

/* Definition simple class */
class Item {
	private:
		string type;

	public:
	    Item();
	   ~Item();
	    Item(string name);
		virtual void hello();
};

/* Implementation */

Item::Item() : Item("None") {}
Item::~Item(){}

Item::Item(string name) {
	this->type = name;
}

void Item::hello(){
	cout << "Hello from type " << type << "\n";
}
```

```cpp
int _tmain(int argc, _TCHAR* argv[])
{
	auto a = Item();
	auto b = Item("Number");

	a.hello();
	b.hello();

	return 0;
}
```



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To declare a function to be compatible with c and use the name convention, we must use the extern "C" {} clause. example:

```
void myFuntion(){
	cout << "Hello from my function\n";
}

extern "C" {
	void myFoo(){
		cout << "This is a classic c function\n";
	}
}
```

Questions?

So How other languages can interact with this ?