# Move 基礎語法 (上)



## 大綱

- 如何使用 Sui CLI
- 套件與模組
- 基本型別與陣列
- 標準函式庫
- 運算符
- 判斷式、迴圈、中斷

## Sui CLI

- sui -V
- sui move new [name]
- sui move build
- sui move test
- sui client new-address
- sui keytool list

## 套件與模組

```
package 0x...
    module a
        struct A1
        fun hello_world()
    module b
        struct B1
        fun hello_package()
```

#### 專案架構

```
sources/
   my_module.move
    another_module.move
tests/
examples/
    using_my_module.move
Move.toml
```

#### 基本型別

- bool
- unsigned integers
  - u8, u16, u64, u128, u256
- address
- vector<T>

# 運算符

Syntax	Operation	Aborts If	
+	addition	Result is too large for the integer type	
_	subtraction	Result is less than zero	
*	multiplication	Result is too large for the integer type	
%	modular division	The divisor is 0	
/	truncating division	The divisor is 0	

# 標準函式庫

Module	Description	Chapter
std::string	Provides basic string operations	String
std::ascii	Provides basic ASCII operations	String
std::option	Implements an Option <t></t>	Option
std::vector	Native operations on the vector type	Vector
std::bcs	Contains the bcs::to_bytes() function	BCS
std::address	Contains a single address::length function	Address
std::type_name	Allows runtime <i>type reflection</i>	Type Reflection
std::hash	Hashing functions: sha2_256 and sha3_256	Cryptography and Hashing
std::debug	Contains debugging functions, which are available in only in test mode	Debugging

#### 判斷式、迴圈、中斷

- if and if-else making decisions on whether to execute a block of code
- loop and while loops repeating a block of code
- break and continue statements exiting a loop early
- return statement exiting a function early