Substrate

River

Basic-002

Creating a Storage Value

https://substrate.dev/substrate-collectables-workshop/#/1/creating-a-storage-value



声明Storage Value: decl_storage!



Rust 原始类型

bool, u8, u32...



Substrate自定义类型

AccountId, BlockNumber, Hash ...



例子



```
decl_storage! {
    trait Store for Module<T: Trait> as Example {
        MyU32: u32;
        MyBool get(my_bool_getter): bool;
        KittyCount get(kitty_count): u32;
    }
}
```

为了存储storage values,需要引入support::StorageValue



使用Storage Value

https://substrate.dev/rustdocs/v1.0/srml_support/storage/trait.StorageValue.html



```
/// Get the storage key.
fn key() -> &'static [u8];
/// true if the value is defined in storage.
fn exists<S: Storage>(storage: &S) -> bool {
  storage.exists(Self::key())
/// Load the value from the provided storage instance.
fn get<S: Storage>(storage: &S) -> Self::Query;
/// Take a value from storage, removing it afterwards.
fn take<S: Storage>(storage: &S) -> Self::Query;
/// Store a value under this key into the provided storage instance.
fn put<S: Storage>(val: &T, storage: &S) {
  storage.put(Self::key(), val)
/// Mutate this value
fn mutate<R, F: FnOnce(&mut Self::Query) -> R, S: Storage>(f: F, storage: &S) -> R;
/// Clear the storage value.
fn kill<S: Storage>(storage: &S) {
  storage.kill(Self::key())
```



例子



```
PUT:
```

MyU32::put(1337);

GET:

```
let my_bool = MyBool::get();
let also_my_bool = Self::my_bool_getter();
```

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Thanks