

An abstract composition on a dark gray background. It features several diagonal lines: a white line in the upper left, a white line in the upper middle, a light gray line in the lower left, and a bright pink line in the lower right. The word 'Substrate' is written in a bold, orange, sans-serif font, and the word 'River' is written in the same style below it.

Substrate

River

The background is dark gray with several diagonal lines in white, light gray, and pink. The lines are of varying lengths and angles, creating a dynamic, geometric pattern.

Interaction-001

Setting a price

<https://substrate.dev/substrate-collectables-workshop/#/3/setting-a-price>



Set the Price of a Kitty

给Kitty设定价格，我们需要添加一个Price属性。
怎么给Price赋值，是我们需要解决的问题。即如何更新Struct的属性值。



Updating a Stored Struct

每个Kitty对象都有一个price属性，我们将其设置为0作为默认值。
如果我们想要更新kitty的价格。我们需要

- 1- 获取kitty对象
- 2- 更新Price值
- 3- 将kitty放回存储中



Updating a Stored Struct例子

```
let mut object = Self::get_object(object_id);  
object.value = new_value;
```

```
<Objects<T>>::insert(object_id, object);
```

如果你想更改某个变量的值，一定要将变量声明为mut。



Permissioned Functions

首先任何人都可以调用create_kitty()来创建kitty，对于创建完的kitty，进行Price价格设定，需要验证修改者的身份，也就是说，只有kitty的创建者才能够修改kitty的价格。因此我们需要添加权限的判断（验证）。



Kitty和所有者的对应关系

```
KittyOwner get(owner_of): map T::Hash => Option<T::AccountId>;
```



验证的例子

```
let owner = Self::owner_of(object_id).ok_or("No owner for this object");  
  
ensure!(owner == sender, "You are not the owner");
```



健康Check

如果我们要创建一个更新对象值的函数，那么我们最好做的第一件事就是确保对象存在。

```
ensure!(<MyObject<T>>::exists(object_id));
```



You turn

- 更新Kitty: set_price()



总结

- 权限检查
- 健康检查
- 获取并更新Struct属性



视频备注

```
// ensure!(!<Kitties<T>>::exists(kitty_id), "Kitty already exists");
```

2019-11-13 06:14:00 Pre-sealed block for proposal at 10. Hash now
0xee56376c1bbc148d14688534143821f44c0ad35acef30c461755a30c268b834e, previously
0x53c4e29cca9c5feab18dd314be767538114abdd03916131db1a25d829113fd89.
Runtime: Kitty already exists

```
ensure!(owner == sender, "You are not the owner");
```

2019-11-13 06:22:40 Pre-sealed block for proposal at 23. Hash now
0xe8c75d81eaea3edbf3e59c0153a3375b22003286d0ab241d914f5a7de04535a0, previously
0xa6da232819d28ee07358f514253e51f5c76456a54015dadfe137e5edad6d0c64.
Runtime: You are not the owner



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Thanks