

An abstract composition on a dark gray background. It features several diagonal lines: a white line in the upper left, 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, positioned between the white and light gray lines. The word "River" is written in the same font and color, positioned between the light gray and pink lines.

Substrate

River



Interaction-003

Buying a Kitty

<https://substrate.dev/substrate-collectables-workshop/#/3/buying-a-kitty>



逻辑

- 1- Price默认为0，表示未出售。
- 2- Price非0，表示正在出售。
- 3- Owners可以通过set_price ()设定售卖的价格

Owner

- createKitty()
- set_price()

Buyer

- buy()



检查Kitty是否出售

```
let my_value = <T::Balance as As<u64>>::sa(0);
```

```
ensure!(my_value.is_zero(), "Value is not zero");
```

```
// `ensure` will succeed and execution continues here
```



Making a Payment支付

balance模块允许我们完全管理每个用户的内部货币，这意味着我们需要小心使用它。

balance模块公开了一个名为Currency的Trait，它实现了一个名为transfer()的函数，该函数允许您安全地将货币从一个帐户转移到另一个帐户，检查是否有足够的余额、溢出、下溢。



Currency

要访问Currency trait和它实现的功能，需要导入trait

```
use support::traits::Currency;
```



transfer

```
<balances::Module<T> as Currency<_>>::transfer(&from, &to, value)?;
```



You Turn!

- buy_kitty()



总结

- Check a Kitty is for Sale
- Making a Payment
- 代币转移
- Kitty的拥有者转移



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Thanks