Creating Your Control Structures

Harit Himanshu
@harittweets

Overview

Using function value to remove code duplication

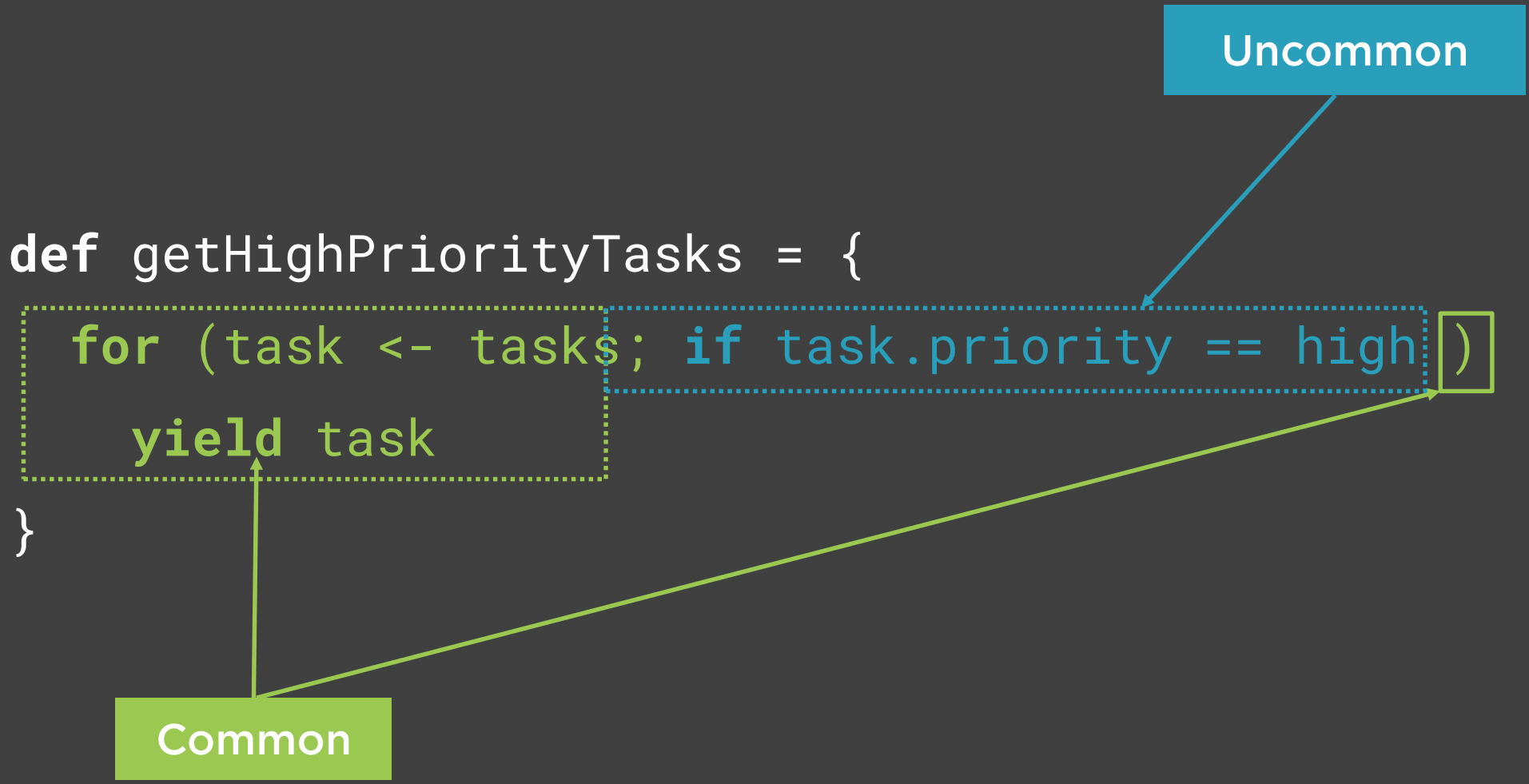
Understanding currying

Creating control abstraction

Understanding *by-name* parameters

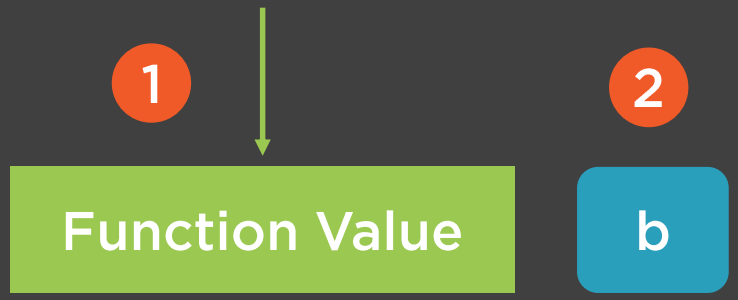
Project demo

Function Common Parts



Curry Function Invocation

```
def multiplyCurry(a: Int)(b: Int) = a * b
multiplyCurry: (a: Int)(b: Int)Int
```

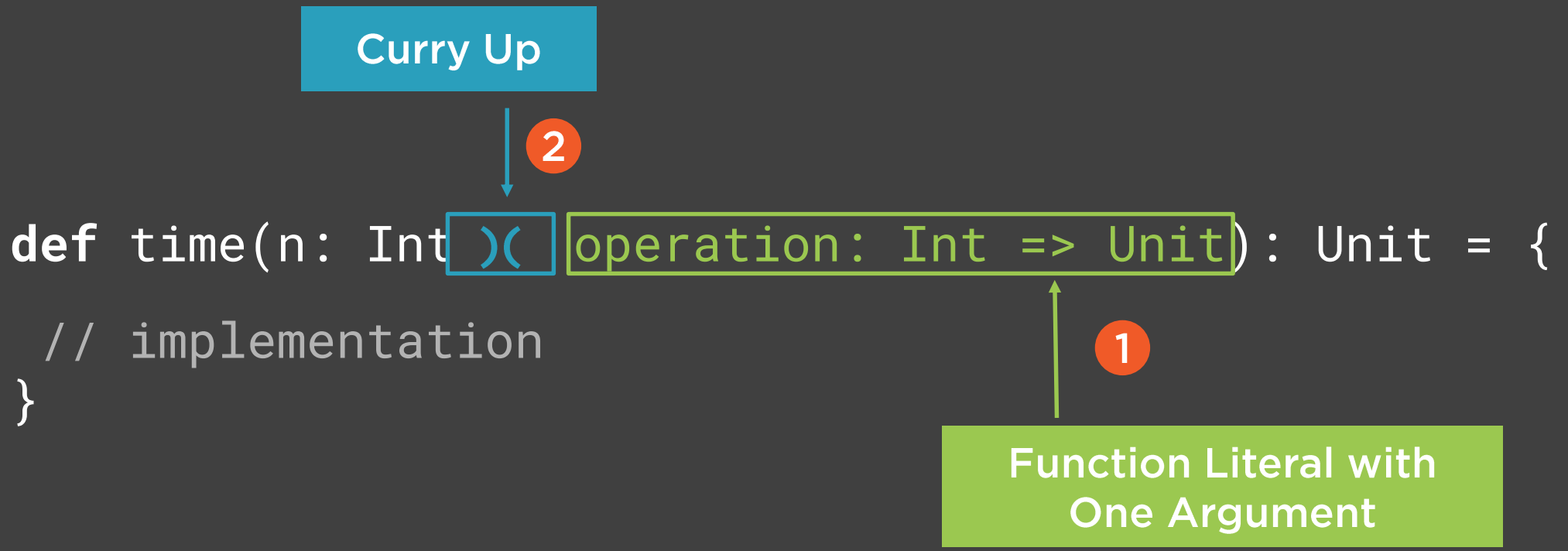


`if` and `for` Loops

```
if (someCondition) {
 // do something
}
```

```
for (someCondition) {
 // do something
}
```

Rules for Creating Control Structure



By-name Parameters

`( ) => Boolean`

FROM

`=> Boolean`

TO

By-name Syntax Alternative?

```
def assertTrue(predicate: => Boolean): Boolean = predicate
```

OR

```
def assertTrue(predicate: Boolean): Boolean = predicate
```

Demo

Refactor BankOfScala

Abstract Account opening process

Summary

- Using function value to remove code duplication
- Understanding currying
- Creating control abstraction
- Understanding *by-name* parameters
- Project demo