

附录

5.1 R6 类面向对象编程简单实例

```
library(R6)

BankAccount = R6Class(
  classname = "BankAccount",

  public = list(
    name = NULL,
    age = NA,

    initialize = function(name, age, balance) {
      self$name = name
      self$age = age
      private$balance = balance
    },

    printInfo = function() {
      cat(" 姓名 :", self$name, "\n", sep = "")
      cat(" 年龄 :", self$age, " 岁\n", sep = "")
      cat(" 存款 :", private$balance, " 元\n", sep = "")
      invisible(self)
    },

    deposit = function(dep = 0) {
      private$balance = private$balance + dep
      invisible(self)
    },

    withdraw = function(draw) {
      private$balance = private$balance - draw
      invisible(self)
    }
  ),
)
```

```

    private = list(
      balance = 0
    )
  )
)

```

```

account = BankAccount$new("张三", age = 40, balance = 10000)
account$printInfo()

```

```

## 姓名：张三
## 年龄：40岁
## 存款：10000元

```

```

account$balance

```

```

## NULL

```

```

account$age

```

```

## [1] 40

```

```

account$
  deposit(5000)$
  withdraw(7000)$
  printInfo()

```

```

## 姓名：张三
## 年龄：40岁
## 存款：8000元

```

```

BanckAccountCharge = R6Class(
  classname = "BankAccount",
  inherit = BankAccount,

  public = list(
    withdraw = function(draw = 0) {
      if (private$balance - draw < 0) {
        draw = draw + 100
      }
      super$withdraw(draw = draw)
    }
  )
)

```

```
charge_account = BanckAcountCharge$new("李四", age = 35, balance = 1000)
charge_account$withdraw(2000)
printInfo()
```

姓名：李四

年龄：35岁

存款：-1100元