# 桥接模式

## 提供起子把手的抽象类

```
✓ ■ Screwd C:\IDEATEXT\Screwd
                                                      package org.example:
  > 🗎 .idea
  ∨ I src
                                                      4 个用法 2 个继承者

✓ Imain

                                                      public abstract class Handle {
      🗸 🖿 java
                                                          1 小田注

✓ □ org.example

                                                          private ScrewdriverHead head;
             d BridgePatternDemo
             © FlatHead
                                                          4 个用法 2 个重写
             (C) Handle
             PhillipsHead
                                                6 🔍
                                                          public void ScrewdriverHead(ScrewdriverHead head) {
             © ScrewdriverHandle095
             © ScrewdriverHandle110
                                                8
                                                              this.head = head;
             ScrewdriverHead
                                                9
                                                          }
        resources
                                                          4个用法 2个实现
    > limitest
                                                          public abstract void rotate();
                                               10
> 🖿 target
                                                      }
    륋 .gitignore
    mx.mod m
```

#### 实现两个不同的起子把手对象

```
✓ ■ Screwd C:\IDEATEXT\Screwd
                                                          package org.example;
   > 🖿 .idea
   ∨ 🖿 src
                                                          1 个用法
     🗸 🖿 main
                                                          public class ScrewdriverHandle110 extends Handle{
       🗸 🖿 java

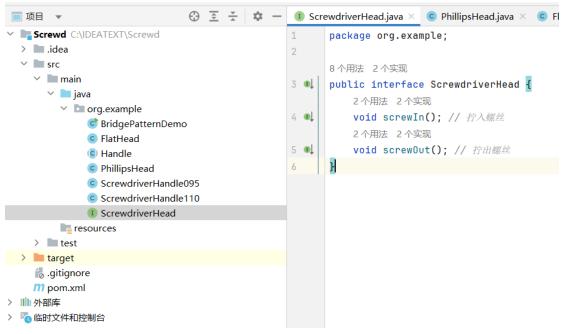
✓ org.example

                                                   4
                                                              protected ScrewdriverHead head;
              ♂ BridgePatternDemo
                                                   5
              FlatHead
              (a) Handle
                                                   6 0
                                                              public void ScrewdriverHead(ScrewdriverHead head) {
              © PhillipsHead
              © ScrewdriverHandle095
              © ScrewdriverHandle110
                                                                  this.head = head:
              ScrewdriverHead
                                                   9
          resources
     > test
                                                               4 个用法
> 🖿 target
                                                  11 📭
                                                               public void rotate(){
     륋 .gitignore
                                                                   System.out.println("使用110的把手");
     m pom.xml
                                                                   head.screwIn():
 > 川り外部库
                                                                   head.screwOut();
 〉 🦥 临时文件和控制台
                                                               }; // 旋转手柄以拧紧或拧松螺丝
■ 项目 ▼
                             × © PhillipsHead.java × © FlatHead.java × © Handle.java × © Screwdri
✓ ■ Screwd C:\IDEATEXT\Screwd
                                                    package org.example;
 > 🔳 .idea
  ∨ 🗎 src
    ∨ I main
                                                    public class ScrewdriverHandle095 extends Handle{
      java
                                                       3 个用法

✓ □ org.example

                                                       private ScrewdriverHead head;
            d BridgePatternDemo
            © FlatHead
            (a) Handle
                                              6 🌖
                                                       public void ScrewdriverHead(ScrewdriverHead head) {
            PhillipsHead
            © ScrewdriverHandle095
            ScrewdriverHandle110
                                              8
                                                           this.head = head;
            ScrewdriverHead
                                              9
        resources
    > test
                                                      4个用法
> 🖿 target
                                             11 📭
                                                      public void rotate(){
    \rm gitignore
                                                         System.out.println("使用095的把手");
    m pom.xml
                                                         head.screwIn();
> ||||| 外部库
                                             14
                                                         head.screwOut();
> 🦥 临时文件和控制台
                                                     }; // 旋转手柄以拧紧或拧松螺丝
                                             18
```

### 起子头的接口



### 两个不同起子头的对象

```
✓ Screwd C:\IDEATEXT\Screwd
                                                         package org.example;
  > 🔳 .idea
  ∨ 🖿 src
    ∨ 🖿 main
                                                         public class PhillipsHead implements ScrewdriverHead {
      ∨ 📄 java
                                                             2 个用法

✓ □ org.example

                                                              @Override
              ♂ BridgePatternDemo
                                                   5 🐠
                                                              public void screwIn() {
              C FlatHead
                                                   6
                                                                  System.out.println("Phillips head screwing in...");
              (a) Handle
             © PhillipsHead
              © ScrewdriverHandle095
              © ScrewdriverHandle110
                                                              2 个用法

    ScrewdriverHead

                                                   9
                                                              @Override
        resources
                                                  10 📭
                                                             public void screwOut() {
    > test
                                                                  System.out.println("Phillips head screwing out...");
> larget
    损 .gitignore
                                                         1
    m pom.xml
> ||||| 外部库
〉 🦥 临时文件和控制台
```

```
✓ ■ Screwd C:\IDEATEXT\Screwd
                                                         package org.example;
  > 🗎 .idea
  ∨ 🖿 src
    ∨ 🖿 main
                                                         public class FlatHead implements ScrewdriverHead {
      🗸 🖿 java
                                                             2 个田法

✓ □ org.example

                                                              @Override
              ♂ BridgePatternDemo
                                                   5 @1
                                                             public void screwIn() {
              © FlatHead
                                                                  System.out.println("Flat head screwing in...");
              (a) Handle
              PhillipsHead
              © ScrewdriverHandle095
                                                   8
              © ScrewdriverHandle110
                                                              2 个用法
                                                   9
                                                             @Override
         resources
                                                  10 📭
                                                              public void screwOut() {
    > test
                                                                  System.out.println("Flat head screwing out...");
 > 🖿 target
    \rm gitignore
                                                         }-
    mpom.xml
> ||||| 外部库
> 🦥 临时文件和控制台
```

### 实现

```
✓ ■Screwd C:\IDEATEXT\Screwd
                                                      package org.example;
  > 🗎 .idea
  ∨ 🗎 src
                                                3
                                                       public class BridgePatternDemo {
    ∨ 🖿 main
                                                          public static void main(String[] args) {
      🗸 🖿 java
                                                              // 创建一个带有平头螺丝刀头的手柄
         org.example
                                                              Handle flatHeadHandle = new ScrewdriverHandle095();
            d BridgePatternDemo
                                                               flatHeadHandle.ScrewdriverHead(new FlatHead());
                                                8
                                                               flatHeadHandle.rotate();
             Handle
             © PhillipsHead
                                                9
                                                               flatHeadHandle.ScrewdriverHead(new PhillipsHead());
             © ScrewdriverHandle095
                                                               flatHeadHandle.rotate();
             © ScrewdriverHandle110
                                                               // 创建一个带有十字头螺丝刀头的手柄
             ScrewdriverHead
                                                               Handle phillipsHeadHandle = new ScrewdriverHandle110();
         resources
                                                              phillipsHeadHandle.ScrewdriverHead(new FlatHead());
    > lili test
                                                              phillipsHeadHandle.rotate();
> 🖿 target
                                                              phillipsHeadHandle.ScrewdriverHead(new PhillipsHead());
    \rm gitignore
                                                              phillipsHeadHandle.rotate();
    m pom.xml
> ||||| 外部库
                                               18
〉 🦥 临时文件和控制台
```

桥接模式是一种将抽象部分与实现部分分离的设计模式,上述代码实现了起子头和起子把手的分离,实现的不同的起子把手和不同的起子头的结合,减少了类的生成,更降低了了耦合度。