



المدرسة العليا لأساتذة التعليم التقنى المحمدية جامعة الحسن الثاني بالدار البيضاء

DEPARTEMENT MATHEMATIQUES ET INFORMATIQUE

Design Pattern

Filière:

« Génie du Logiciel et des Systèmes Informatiques Distribués »

GLSID

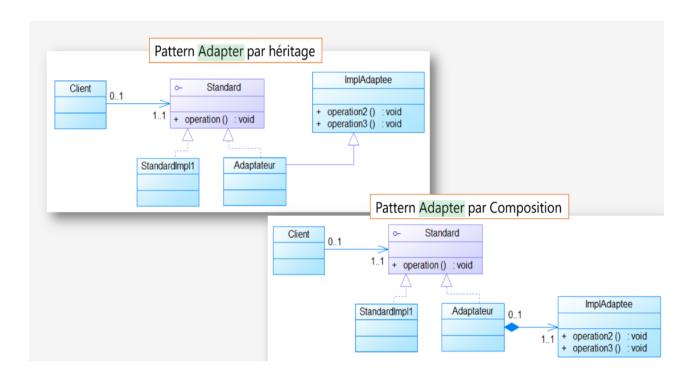
Pattern Adapter

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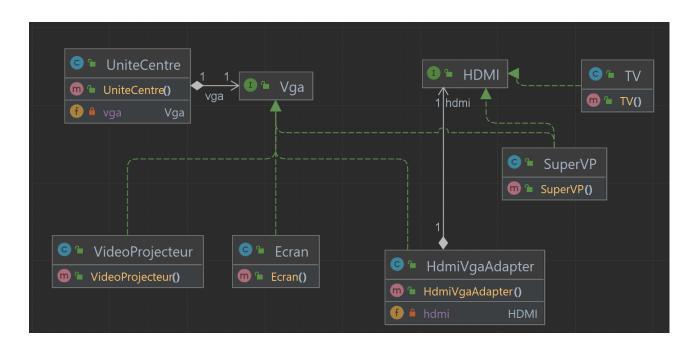
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Pattern Adapter

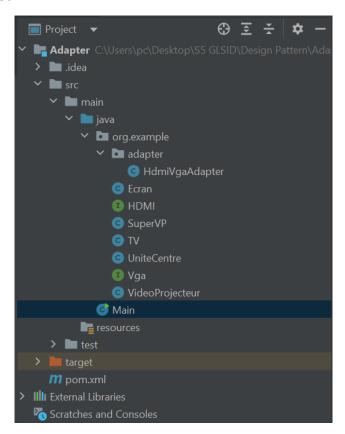


Première Partie: Pattern Adapter par Composition

Diagramme de Classe :



Structure de projet :



Classe UniteCentre:

Interface Vga:

```
package org.example;

7 pages 4 implementations

public interface Vga {
    2 usages 4 implementations
    void print(String message);
}
```

La classe Ecran:

La classe VideoProjecteur :

L'interface Hdmi:

```
package org.example;

5 usages 2 implementations

public interface HDMI {

1 usage 2 implementations

void view(byte[] data);

}
```

La classe TV:

La classe HdmiVgaAdapter:

La classe SuperVP:

```
package org.example;

2 usages

public class SuperVP implements Vga, HDMI{

1 usage

@Override

public void view(byte[] data) {

String message =new String(data);

System.out.println(".......super VP Hdmi....");

System.out.println(message);

System.out.println("......super VP Hdmi...");

2 usages

2 usages

2 usages

2 usages

2 public void print(String message) {

System.out.println(".....super VP Vga....");

System.out.println(message);

System.out.println(message);

System.out.println(".....super VP Vga...");

System.out.println(".....super VP Vga...");

System.out.println(".....super VP Vga...");

System.out.println(".....super VP Vga...");
```

Test:

```
public class Main {
    no usages

public static void main(String[] args) {

UniteCentre uniteCentre=new UniteCentre();
    uniteCentre.setVga(new Ecran());
    uniteCentre.print("Bonjour");

uniteCentre.print("Bonjour");

HdmiVgaAdapter hdmiVgaAdapter=new HdmiVgaAdapter();
    hdmiVgaAdapter.setHdmi(new TV());
    uniteCentre.setVga(hdmiVgaAdapter);
    hdmiVgaAdapter.print("Bonsoir GLSID Design Pattern");

uniteCentre.setVga(new SuperVP());
    uniteCentre.print("Hello");

HdmiVgaAdapter1.setHdmi(new SuperVP());
    uniteCentre.setVga(hdmiVgaAdapter1];
    uniteCentre.setVga(hdmiVgaAdapter1);
    uniteCentre.print("Bonsoir");

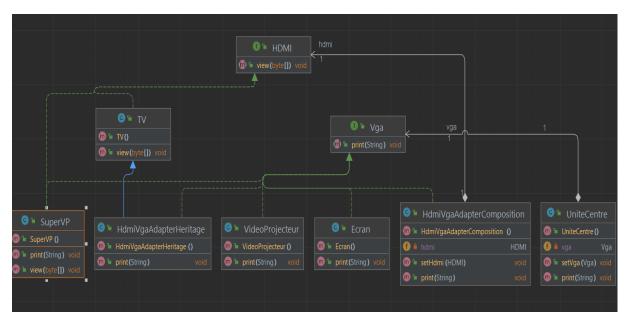
uniteCentre.print("Bonsoir");

uniteCentre.print("Bonsoir");

y
```

Résultat:

Diagramme de Classe:



La classe HdmiVgaAdapterHeritage:

```
public class HdmiVgaAdapterHeritage extends TV implements Vga {

3 usages

@Override

public void print(String message) {

System.out.println("====== Adapter =====");

byte[] data=message.getBytes();

super.view(data);

System.out.println("====== Adapter =====");

5 }

16

17
```

Test:

```
HdmiVgaAdapterHeritage hdmiVgaAdapterHeritage=new HdmiVgaAdapterHeritage();
uniteCentre.setVga(hdmiVgaAdapterHeritage);
hdmiVgaAdapterHeritage.print("Test par heritage");
}
```

Résultat :

```
===== Adapter =====
???????? TV ????????
Test par heritage
???????? TV ????????
====== Adapter ======
```