

Diagrammes SOLID (avant / apres)

SRP - Exemple 1 (avant)

```
+-----+
| Book   |
+-----+
| - title
| - author
| - content
+-----+
| + getTitle()
| + getAuthor()
| + getContent()
| + printToScreen()
| + saveToDatabase()
| + emprunter()
+-----+
```

SRP - Exemple 1 (apres)

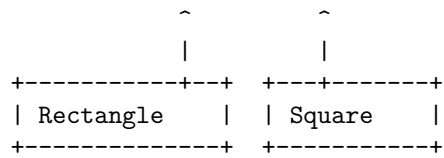
```
+-----+ +-----+ +-----+
|BookPrinter|----->| BookSRP  |<-----| BookSaver   |
+-----+ +-----+ +-----+
                        ^
                        |
                        +-----+
                        | BookBusinessLogic |
                        +-----+
```

OCP - Exemple 1 (avant)

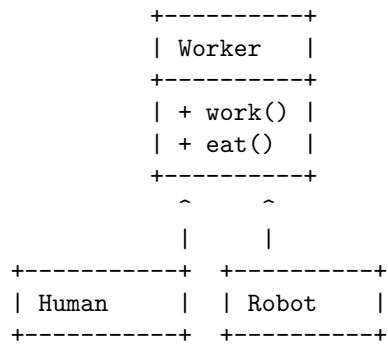
```
+-----+ +-----+
| AreaCalculator |----->| Rectangle |
+-----+ +-----+
|
|----->+-----+
| Circle |
+-----+
```

OCP - Exemple 1 (apres)

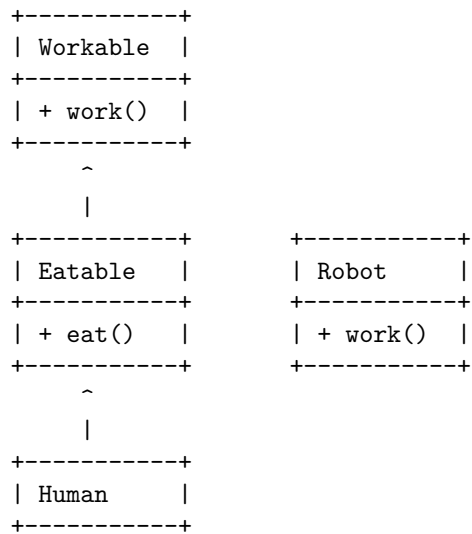
```
+-----+
| Shape |
+-----+
| + calculateArea |
```

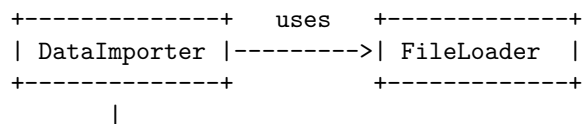
ISP - Exemple 1 (avant)



ISP - Exemple 1 (apres)



DIP - Exemple 1 (avant)



```

      | uses
      v
+-----+
| DatabaseGateway |
+-----+

```

DIP - Exemple 1 (apres)

```

+-----+ +-----+ +-----+
| DataImporter |----->| DataLoader |<-----| FileLoader |
+-----+ +-----+ +-----+
      |
      |-----> +-----+ <----- +-----+
                | DataStorage |      | DatabaseGateway |
                +-----+      +-----+

```

DIP - Exemple 2 (avant)

```

+-----+ uses +-----+
| OrderProcessor |----->| MySQLDatabase |
+-----+ +-----+

```

DIP - Exemple 2 (apres)

```

      +-----+
      | Database |
      +-----+
      | + save(data) |
      +-----+
      ^       ^
      |       |
+-----+ +-----+
| MySQLDatabase| | MongoDBDatabase|
+-----+ +-----+
      ^
      |
+-----+
| OrderProcessor |
+-----+

```