

**POO(PROGRAMMATION ORIENTE OBJET EN JAVA**

**INTRODUCTION**

1. **HISTORIQUE DE LA  POO**
   * **Apparition de  la POO**
   * **Importance de la POO**

**II.** **OBJETS ET CLASSES**

* + **Objet**
  + **Class**

**III.  METHODES**

* + **Définition**
  + **Syntaxe**
  + **Spécificateurs d'accès**
  + **Signature de méthode**
  + **Méthode statique et d'instance**
  + **Constructeur**

**IV.  ENCAPSULATION ET ABSTRACTION**

* + **Encapsulation**
  + **Abstraction**

**V.   HERITAGE**

* + **Notions de bases**
  + **Syntaxe**
  + **Types d'héritage et exemples**

**VI.  POLYMORPHISME**

* + **Définition**
  + **Résolution statique des liens**
  + **Résolution dynamique des liens**

**CONCLUSION**

. **REMERCIEMENTS**

**Q&A**

**INTRODUCTION**

La programmation orientée objet est un modèle de langage de programmation qui s'articule autour d'objets et de données, plutôt que d'actions et de logique. Comment cela fonctionne-t-il ?

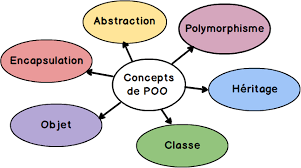
**I . HISTORIQUE**

* + **Apparition de la POO**

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* + **Importance de la POO**



**II  . OBJETS ET CLASSES**

* **Objet**

1. **Definition**

Un objet est une entité qui a un état et un comportement, par exemple: une chaise, une voiture, un livre etc.

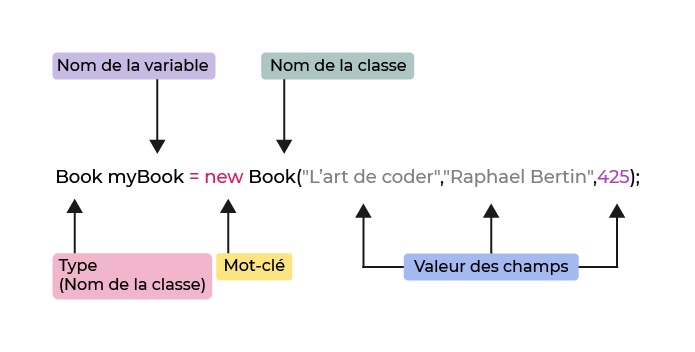
On dit donc que l'objet a trois (3) caractéristiques:

Un état : représente les données (valeur) d'un objet;

Un comportement: représente le comportement (fonctionnalité) d'un objet tel que déposer, retirer, etc;

Une identité: une identité d'objet est un identifiant unique.

1. **Syntaxe**



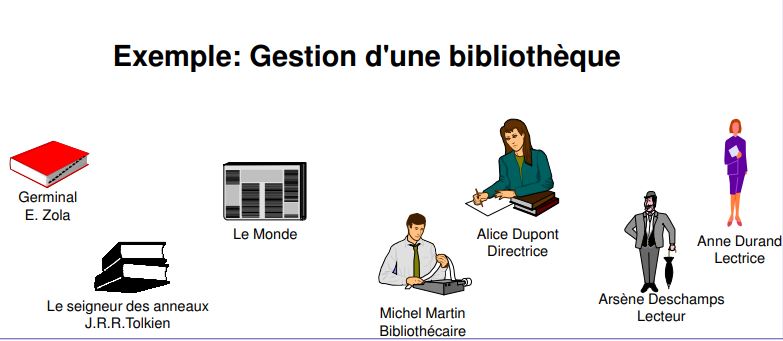
1. **Definition d’une classe**

Une classe est un groupe d'objets qui ont des propriétés communes. Il s'agit d'un modèle ou d'un plan à partir duquel des objets sont créés. C'est une entité logique. Ça ne peut pas être physique.Une classe en Java peut contenir :

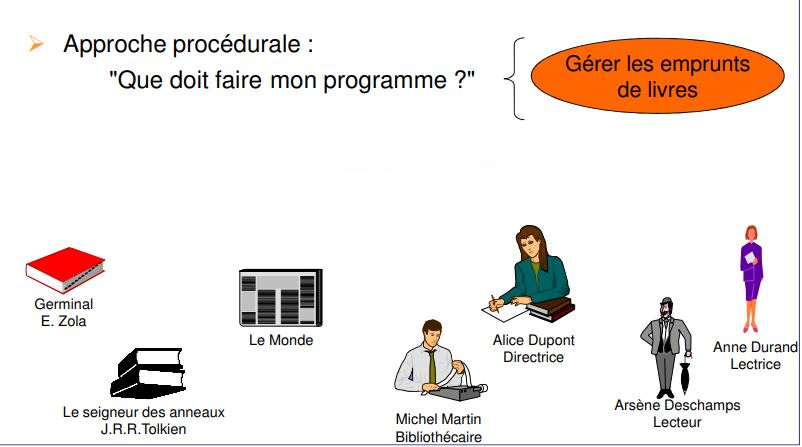
* des champs;
* des méthodes;
* des constructeurs;
* des blocs;
* des classes et interfaces imbriquées**;**
* **Probleme(exemple)**

Soit une bibliothèque contenant des livres, des articles .. un gérant et une directrice, des lecteurs et lectrices. Pour se faciliter la gestion, la propriétaire vous demande de créer une application qui s'occupera des actions (

* Emprunts;
* La liste de livres;
* Nombres de livres;  etc.. ) par les responsables et les lecteurs.



* **Option 1**

****

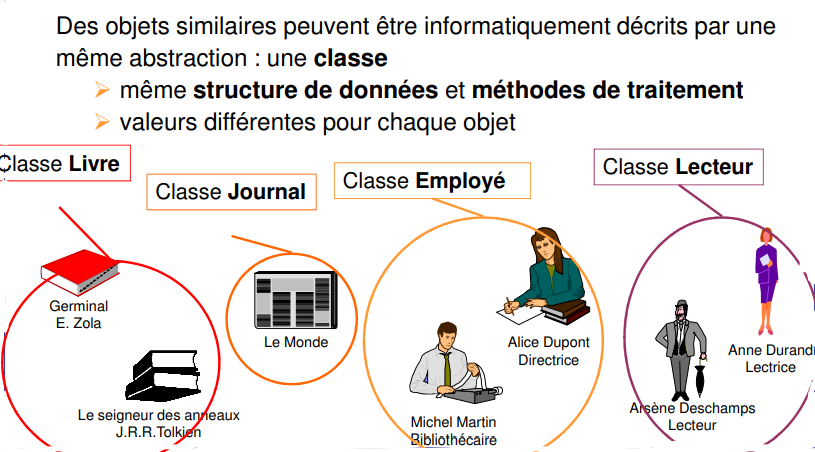
* **Option 2 :Conception orientée objet**

**![Une image contenant texte

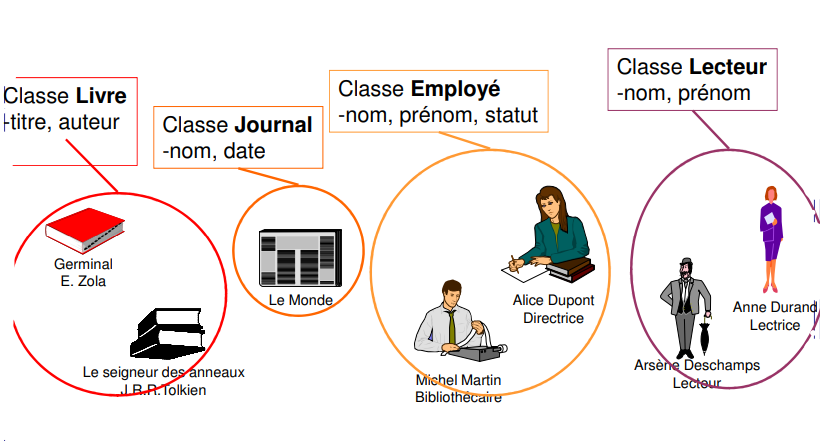
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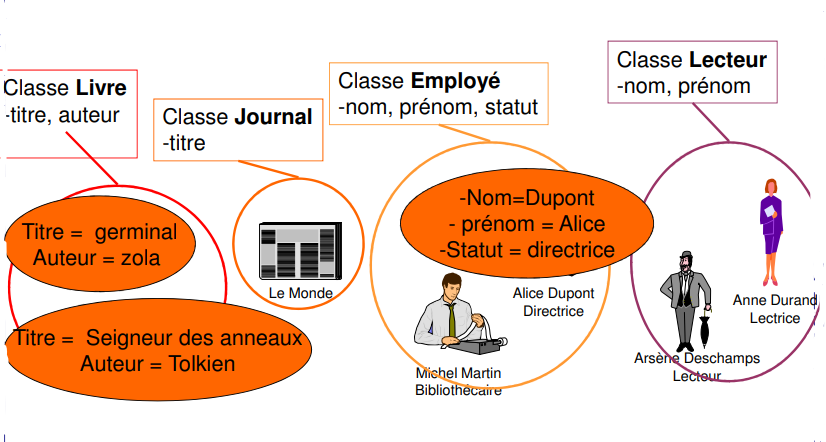
C C'est un exemple de méthode statique.

* C'est un exemple de méthode statique.
* **Option 2 :Conception orienté objet**

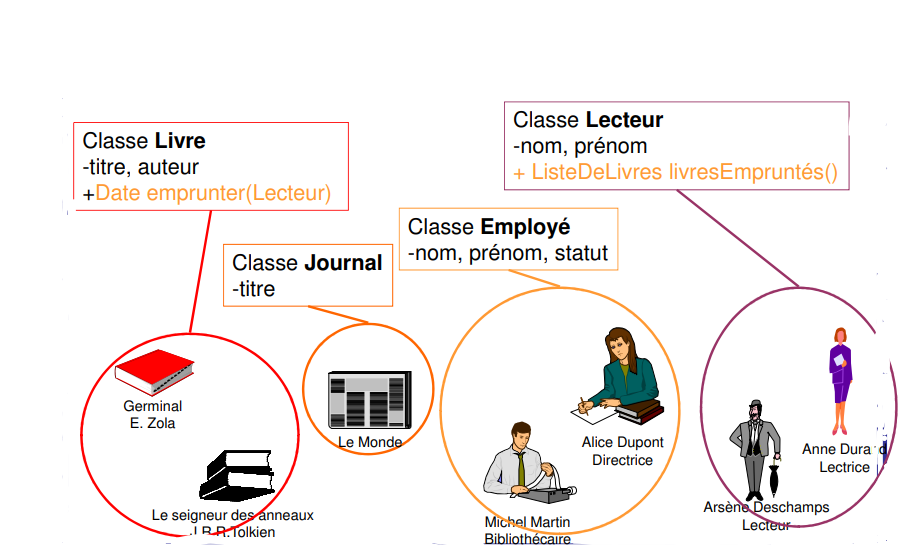
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* **Classe :Les attributs**

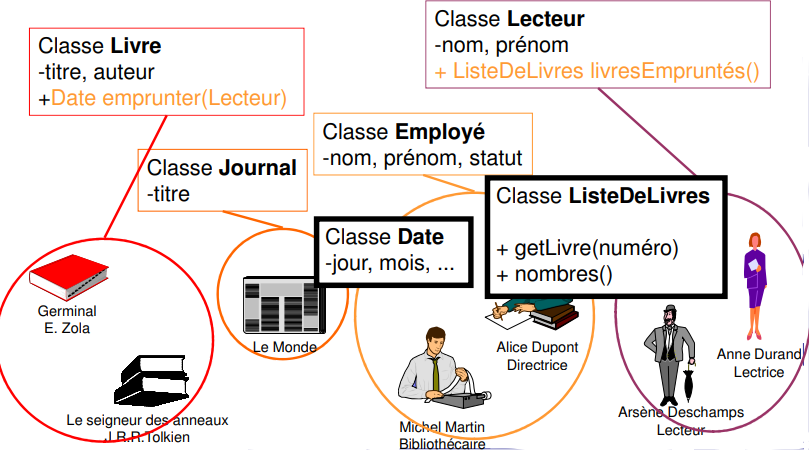
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* **Classe : Les méthodes**

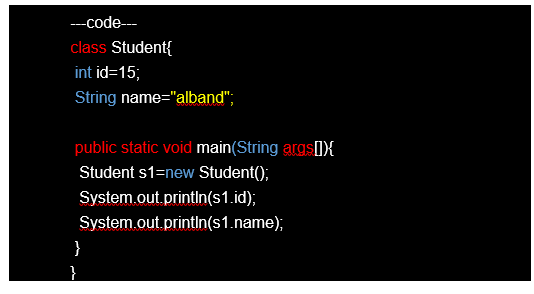
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* **Classe : Les méthodes et les accesseurs**



* **Syntaxe d’une classe**

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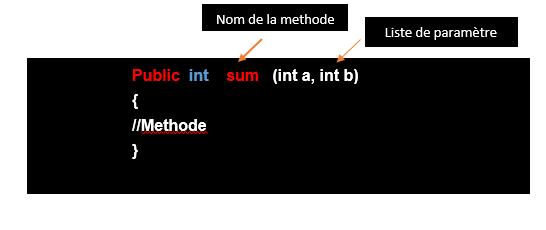
**III . LES METHODES**

* + 1. **. Definition**

Une **méthode** est un bloc de code ou une collection d'instructions ou un ensemble de codes regroupés pour effectuer une certaine tâche ou une opération.

Il est utilisé pour atteindre la**réutilisabilité**du code. Une méthode est écrite une fois et est utilisée plusieurs fois.

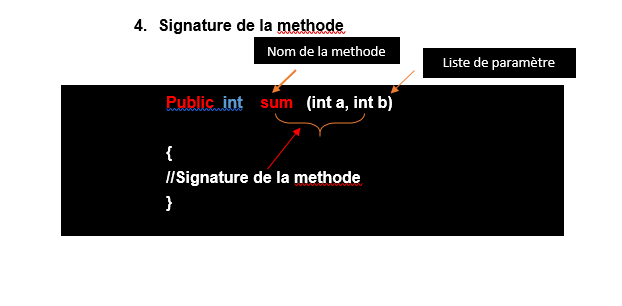
* + 1. **. Syntaxe**



* **Les spécificateurs d’acces**

Le spécificateur ou le modificateur d'accès est le type d'accès de la méthode. Il spécifie la visibilité de la méthode. Java fournit quatre (4) types de spécificateurs d'accès :

* + - Public;
    - Private;
    - Protected;
    - Default.
* **Signature de la methode**



* **Méthode statiques**

Ne sont pas liées aux classes.

**Exemple** ( la classe **MathUtils**)

* Met à disposition plusieurs utilitaires mathématiques;
* Crée l'objet MathUtils de manière artificielle
* Sert uniquement à stocker des méthodes utilitaires

class MathUtils {

    public final static double PI = 3.14;

    public static double auCarre(double c) {

        return c\*c;

    }

}

* **Methode d’instance**

La méthode de la classe est connue sous le nom de **méthode d’instance.**C'est une méthode **non statique** définie dans la classe. Avant d'appeler ou d'invoquer la méthode d'instance, il est nécessaire de créer un objet de sa classe. Voyons un exemple de méthode d'instance.

**public** **class** InstanceMethodExample  {

**public** **void** main(String [] args)  {

     InstanceMethodExample obj = **new** InstanceMethodExample();

    System.out.println("La somme est : "+obj.add(12, 13));

    }

**int** som;

**public** **int** add(**int** a, **int** b)

    {

    som = a+b;

**return** som;

    }

}

* **Les constructeurs**

**Definition**

En Java, le mot-clé **new** provoque une instanciation en faisant appel à un constructeur de la classe instanciée.

* Un constructeur est une méthode qui a le même nom que la classe
* Un constructeur n'a pas de valeur de retour
* Plusieurs constructeurs peuvent exister dans une même classe (avec des arguments différents)
* Il faut au moins un constructeur dans une classe pour en instancier des objets

**Exemple**

public class MyConstructor{  
  int x;    public MyConstructor() {  
    x = 5;

}  
  
  public static void *main*(String[] args) {  
    MyConstructor myObj = new MyConstructor(); // Appel du constructeur

        System.out.println(myObj.x);

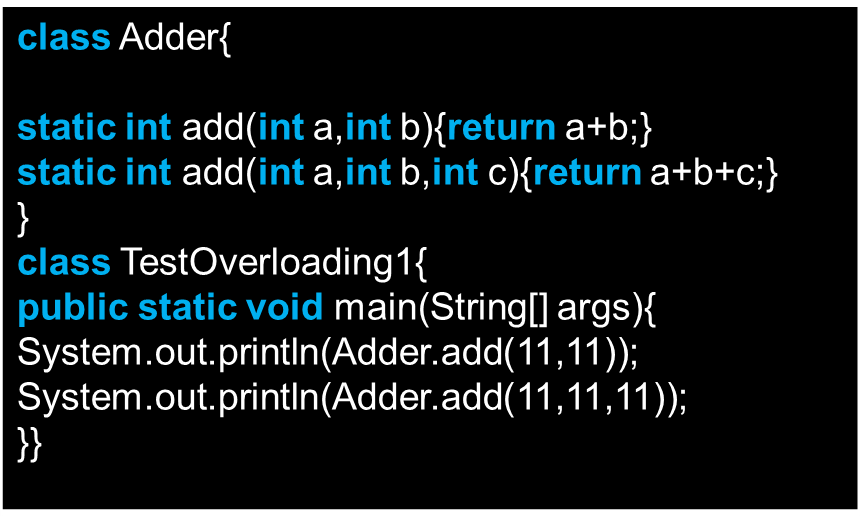
    }  
}

* **Surcharge de la méthode**

Si une classe a plusieurs méthodes ayant le même nom mais des paramètres différents, on parle de **surcharge de méthode.** Aussi, la surcharge de méthode augmente la lisibilité du programme .Il existe deux (2) de façon de surcharge de méthode en Java

* + En changeant le nombre d’arguments;

|  |
| --- |
| **//Outpout**  **22**  **33** |



* + En changeant le type de données

**class** Adder{

**static** **int** add(**int** a, **int** b){**return** a+b;}

**static** **double** add(**double** a, **double** b){**return** a+b;}

}

**class** TestOverloading2{

**public** **static** **void** main(String[] args){

        System.out.println(Adder.add(11,11));

        System.out.println(Adder.add(12.3,12.6));

}}

|  |
| --- |
| **//Outpout**  **22**  **24,9** |

1. **ENCAPSULATION ET ABSTRACTION**

* **Definition**

La signification d’Encapsulation est de s'assurer que les données "sensibles" sont cachées aux utilisateurs. Pour y parvenir, vous devez :

* Declarer les **variables/attributs** de la classe comme **private;**
* fournir des méthodes publiques **get** et **set private**pour accéder et mettre à jour la valeur d'une variable.

La get méthode renvoie la valeur de la variable et la set méthode définit la valeur ;

* **Exemple simple d’encpasulation**

public class Person {

    private String name;

    // Accesseur

    public String getName() {

       return name;

   }

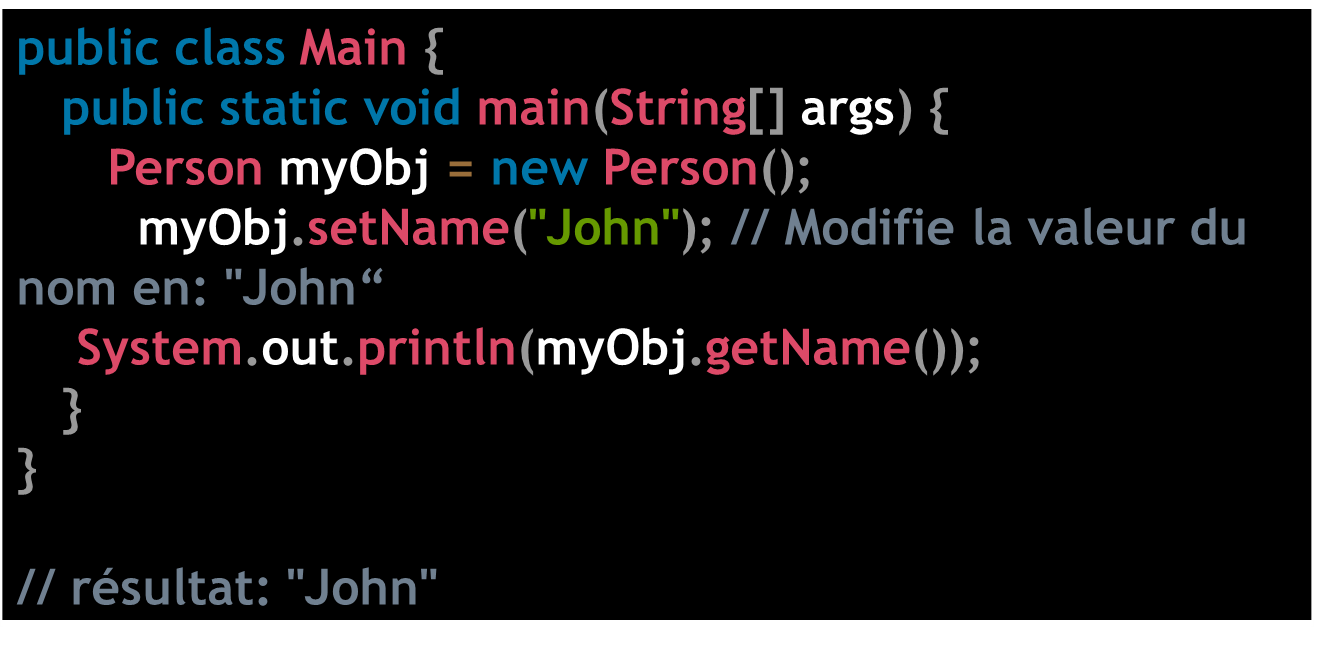
   // Modificateur

    public void setName(String newName) {

       this.name = newName;

    }

}



* **Pourquoi l’encapsulation**
* Meilleur contrôle des attributs de classe et des méthodes ;
* Les attributs de classe peuvent être rendus en **lecture seule** (si vous n'utilisez que la get méthode) ou en **écriture seule** (si vous n'utilisez que la set méthode) ;
* **Definition**

**L' abstraction** de données est le processus consistant à masquer certains détails et à ne montrer que les informations essentielles à l'utilisateur.  
L'abstraction peut être réalisée avec **des classes abstraites** ou **des interfaces**

* **Classe abstraitre**
* **Exemple de classe abstraite**

**abstract** **class** A{}

**abstract void** printStatus(); // pas de corps de méthode ni de résumé

* **Interface**
* Definition

Un interface est une autre façon de réaliser une abstraction en JAVA

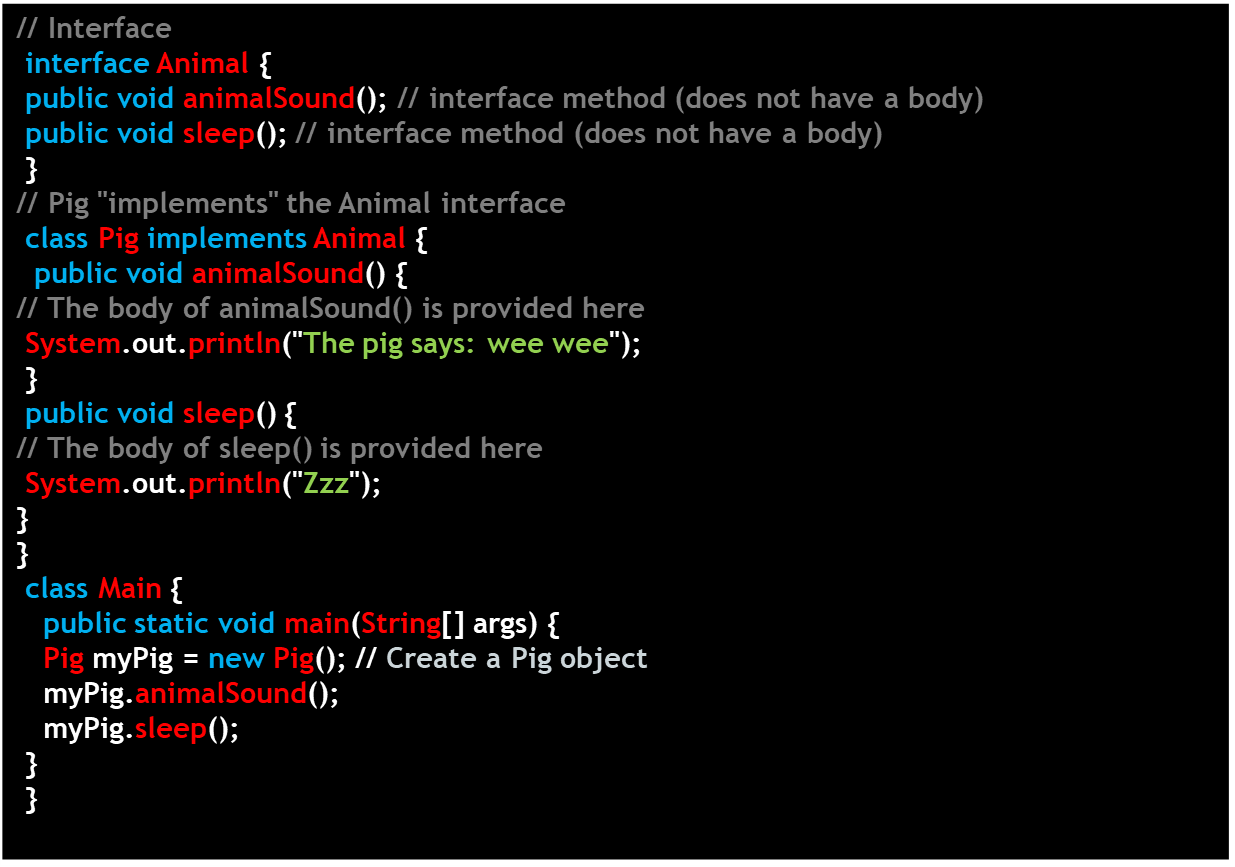
* Pourquoi utiliser l’interface
* Il est utilisé pour réaliser l'abstraction.
* Par interface, nous pouvons prendre en charge la fonctionnalité d'héritage multiple.
* Il peut être utilisé pour obtenir un couplage lâche.
* **Syntaxe**

|  |
| --- |
| **interface** <nom\_interface>{        // déclarer des champs constants      // déclarer des méthodes qui résument      // par défaut.  } |

* **Accéder aux méthodes d’interface**

Pour accéder aux méthodes d'interface, l'interface doit être "implémentée" (un peu comme héritée) par une autre classe avec le mot –implements clé(au lieu de extends).La methode d’interface est fourni par la classe « implement

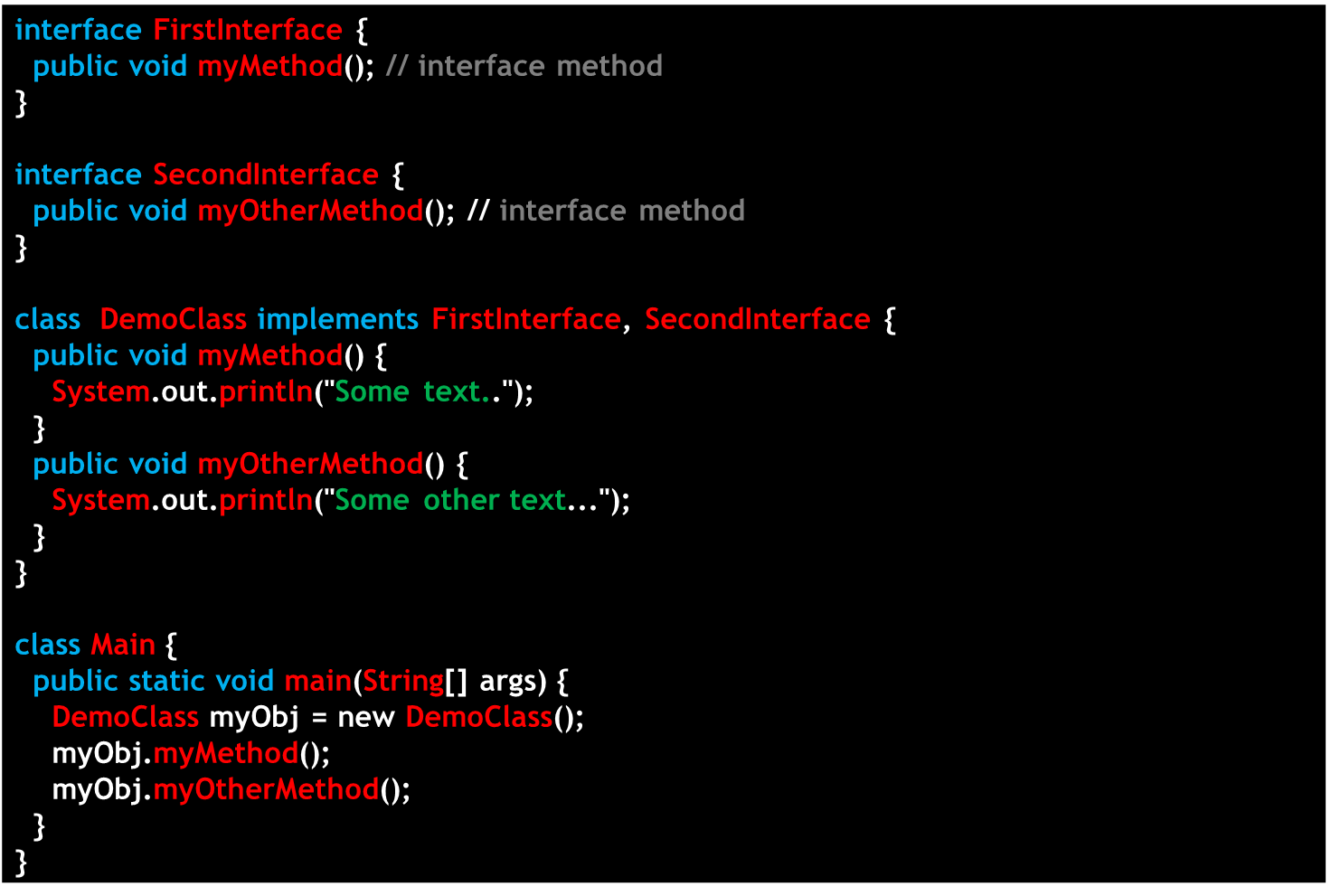
* + - * + **Exemple**



* + - **Interface multiple**

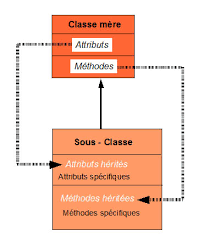
Pour implémenter plusieurs interfaces,séparez-les par une virgule

* Exemple



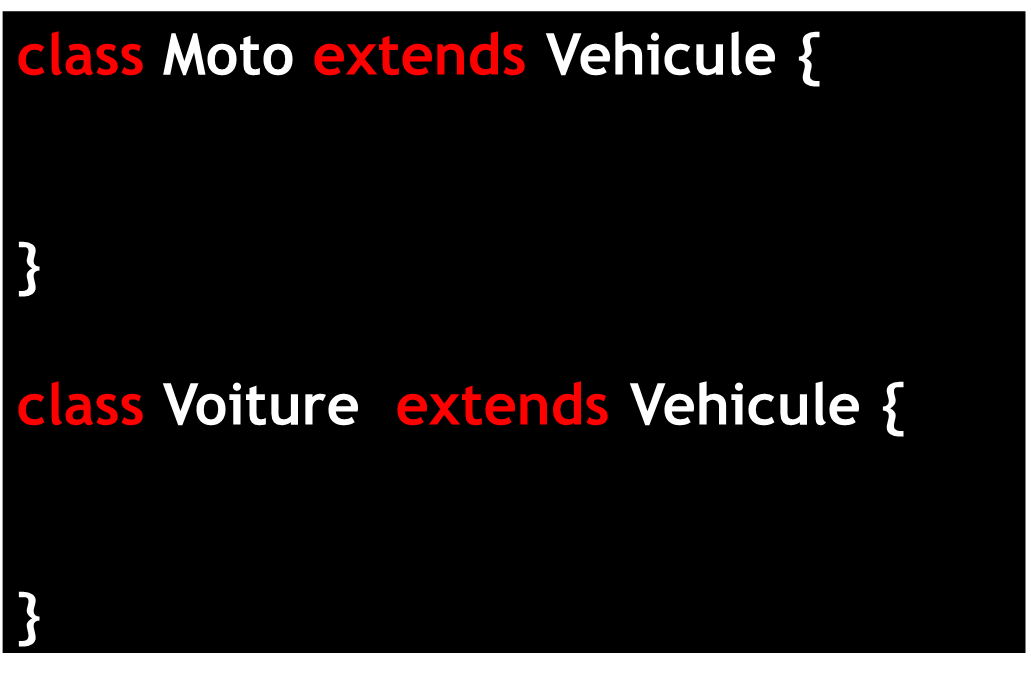
**V .Heritage**

* **Definition**
* **L'héritage en Java** est un mécanisme dans lequel un objet acquiert toutes les propriétés et les fonctionnalités d'un autre Objet (parent)
* Il représente la relation "EST-UN"
* Termes et mots clés
* Classe ;
* Sous-classe/classe enfant ;
* Super classe/classe parent ;
* Réutilisabilité ;
* Extends
* **Exemples**

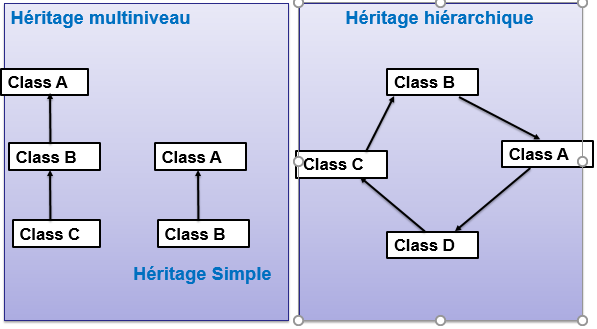
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* **Syntaxe**



* **Type d’heritages**



**VI .POLYMORPHISME**

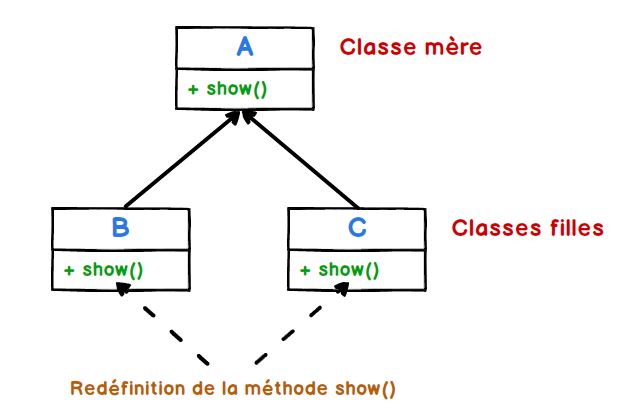
* **Definition**

**Le polymorphisme en Java** est un concept par lequel nous pouvons effectuer une action unique de différentes manières en profitant de l'héritage. Qui parle de polymorphisme parle alors de :

* + - **Surcharge**
    - **Redéfinition**
    - **Résolution statique des liens**
    - **Résolution dynamique des liens**
* **Redefinition de la methode**

**On suppose que deux classes B et C héritent d'une classe A. Redéfinir dans les classes B et C une méthode de la classe A, c'est définir dans B et C une méthode ayant :**

* **même nom;**
* **mêmes types de paramètres**
* **et même type de retour qu'une méthode contenue par la classe A.**

****

* Exemple

class A {

    void show()

    {

        System.out.println("Je suis la méthode show() de la classe mére A.");

    }

}

class B extends A {

   // Pas de redéfinition

}

class C extends A {

    @Override

    void show()

    {

        System.out.println("je suis la méthode show() de la classe fille C.");

    }

}

public class Main {

    public static void main(String[] args)

    {

        A a = new A();

           a.show();

        A b = new B();

           b.show();

        A c = new C();

           c.show();

   }

}

Je suis la méthode show() de la classe mère A.

Je suis la méthode show() de la classe mère A.

je suis la méthode show() de la classe fille C.

* **Résolution statique des liens**

Lorsque le type de l'objet est déterminé au moment de la compilation, on parle de liaison statique.

Également, s'il existe une méthode private, final ou static dans une classe, on dit alors qu'il existe une liaison statique.

* **Exemple**

class Animal{

 private void eat() {  
    System.out.println("Le cochon mange.");  
  }

 public static void main(String args[]) {  
    Animal a1 = new Animal();

    a1.eat();  
  }  
  
}

* **Résolution dynamique des liens**

* **Definition**

On parle de résolution dynamique des liens lorsque le type est déterminé lors de l'exécution du programme

* **Exemple**

class Animal{

   void eat() {  
    System.out.println("L'animal mange.");  
   }

}

class Cat extends Animal{

 void eat() {  
    System.out.println("Le chat mange.");  
  }

 public static void main(String args[]) {  
    Animal cat = new Animal();

    cat.eat();  
  }  
}

* Exemple1

class Animal {  
  public void animalSound() {  
    System.out.println("Le cris des animaux");  
  }  
}  
  
class Pig extends Animal {  
  public void animalSound() {  
    System.out.println("Le cochon ronfle");  
  }  
}  
  
class Cat extends Animal {  
  public void animalSound() {  
    System.out.println("le chat miaule ");  
  }  
}



Le cris des animaux

Le cochon ronfle

Le chat miaule