

Static ~~find~~ Find keywords

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⇒ Static keyword is used ~~for~~ as metadata (data about data)

→ Static members are used to give information about a class

* If you have only data related to class

⇒ Create static data members

* If you want to perform some operations on ~~them~~ some static data member

⇒ create static methods / functions

* You have lot of info and functionality (lot of methods)
⇒ create nested classes

④ You can also able to create some static blocks also

⇒ The variable inside class who don't give a lot of info about class can be stated as static

→ The static members of class are unique over all objects of that class that's why [they provide info about class]

④ a class for car

```
class Hondacar {
```

```
static int price = 1000;
```

```
int xyz;
```

```
static void int carPrice() {
```

```
switch (city) {
```

```
s.o.p("Price of car: " + price);
```

```
}
```

so

```
}
```

```
main() {
```

```
Hondacar h1 = new Hondacar();
```

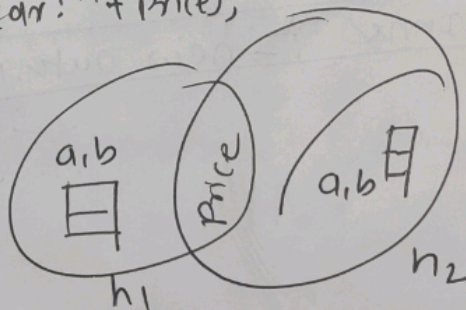
```
Hondacar h2 = new Hondacar();
```

```
}
```

⇒ The static value from a class are unique to the

⇒ other ~~now~~

~~static~~ non-static variable are unique for each object.



for ~~st~~ that

⊕ Static Variable In class

```
class HondaCity {
```

```
    static int price = 100;
```

```
    int x, y;
```

```
    static double onRoadPrice (String city) {  
        city = city.toLowerCase();  
        switch (city) {
```

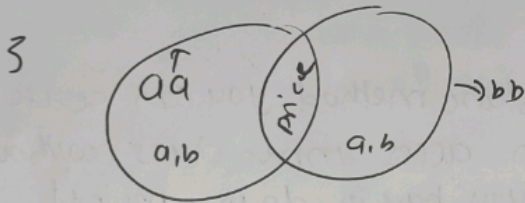
```
            case "mumbai":
```

```
                return price + price * 0.1;
```

```
            case "delhi":
```

```
                return price + price * 0.11;
```

AS previously said if you have a common static variable throughout the whole @ objects so



so if any object change value of static so value for all object for that static variable will also change

→ static data can be used as shared data

⇒ Also static function can able to access through className / interface name as they are metadata for that class

```
Ex: interface zz {  
    int m;  
    void display();  
    static m();  
    s.o.p("hell");  
}
```

HA int
⇒ inside a interface all ~~function~~ data members are static by default

⇒ static value (method or data members)

Static class) → zz.display()

zz is interface

zz.m();

are common throughout class / interface

→ the static value can exist even the object of that class is not created.

⇒ static value are not created inside heap they are available in method area (Data segment of code)

#static methods

→ If you want to perform operations on static members we will create static methods.

→ static methods will only able to access static members & can't access non static method

In last page class

method onRoad price can't access a & b

→ you can access static method without creating object

: HondaCity.onRoadPrice();

can directly be called.

#static inner classes

so if you have multiple static method you can create inner static class and you can access inner class without a lot of hard work which you have to do in nested inner loops

⇒ Nest static class ~~also~~ will only able to access static members

⇒ Inside ~~static~~ static nested class you can't be able use keyword like super or this.

⇒ you can create static classes you only have permission to create a static ~~class~~ inner class

Static class Hell1?

{; ↑
not
possible

static keyword can
only used to
create inner
classes

static class Hell2?

{ ↑
possible

Static blocks

If you have some static value in your code and if you want to initialise them then we use static block.

```
class hell {
```

```
    static int z;
```

```
    static {
```

```
        s.o.p("blah blah");
```

```
        z = 100;
```

```
    }
```

```
    static {
```

```
        s.o.p("static block");
```

```
    }
```

static block:

```
    static {
```

```
        = {Some Code} =
```

```
    }
```

static blocks are like static functions and they only can access static variables

⇒ there can be multiple static blocks and they gonna execute in order at which you write them

⇒ the static block from class will invoked while initialisation of that class is taking place (loading of class)

⇒ static blocks are there to setup static values

→ static blocks are not most commonly use static variable & static method gonna useful in more cases

⇒ the class which we are going to use will get loaded, if a class is there in file but used once so at that time that class will not used so static block inside them will not going to work

instance block

```
final int z;
```

```
{
```

```
    z = 100;
```

```
}
```

⇒ this one static block

but
can used
to assign values

inside
instance
block

→ you can assign values to variables other than static