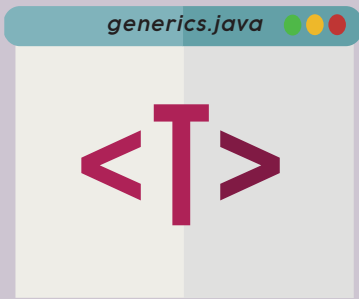


GENERIC S

IN JAVA PROGRAMMING

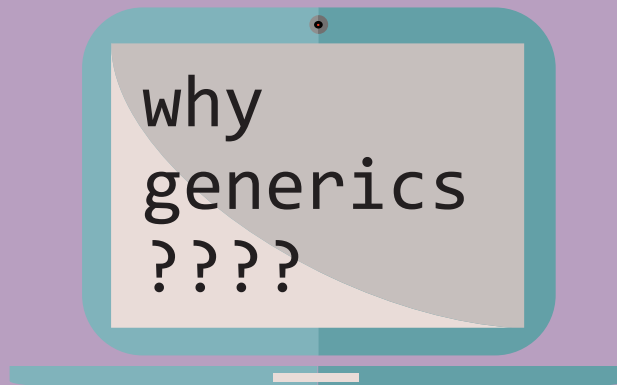


WHAT IS IT ?

Class / interface that parameter-ized over types. Angle brackets (<>) used to specify the type parameter.

Compile-time type safety guaranteed!

It's enabling us to specify, with single method declaration, or single class declaration



Easier way to specify!

It catches invalid types at compile time.

Generics are variables, for types. They can be used for methods & classes!



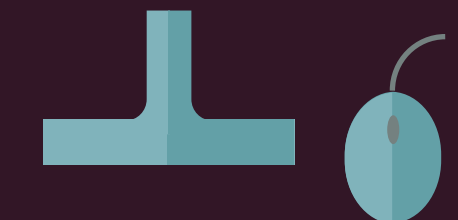
Generics used, so every type of parameter executed properly!

example of class

```
class Test <Anything> {
    Anything obj;
    Test(Anything obj) { this.obj = obj; } // constructor
    public Anything getObject() { return this.obj; }
    // getObject is a getter of any object that declared
}
class Main {
    public static void main (String[] args) {
        Test <Integer> iObj = new Test<Integer>(100);
        System.out.println(iObj.getObject());
        Test <String> sObj = new Test<String>("DDPInsyaallahA");
        System.out.println(sObj.getObject());
    }
}
```

PS: You could use other than <T> as the parameter. It's just a name!

Examples
on Generics



example of method

```
public static <T> void exp(ArrayList<T> lst){
    for(int i = 0; i < lst.size(); i++){
        System.out.println(lst.get(i));
    }
    //prints everything in arraylist, no matter what is the type
}
```

