

Nested Classes

J8

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A class may be defined within another class. Such a class is called a nested class. The main motivation for nested classes is to improve encapsulation and clarity.

- *Static nested classes* (use **static** keyword) behave as if declared elsewhere, but use their enclosing class as a package
- Instances of *inner classes* (non-static) are always associated with a particular instance of the enclosing class, and can therefore access instance members of the enclosing class



Anonymous Inner Classes

A special case of nested classes can directly implement a specified interface within a block of code. This class is not otherwise accessible from the outside:

```
Toxic myUnknownToxicThing = new Toxic {  
    public boolean isLethalToAdultHumans () {  
        return true;  
    }  
}
```