Lecture 11. Public, Private and Static in Java

public access modifier (公共访问修饰符)

Specify how to access classes, methods, and fields (指定如何访问类、方法和字段)

The access level is everywhere.

- Inside a class.
- Outside a class.
- Inside the package.
- Outside the package.

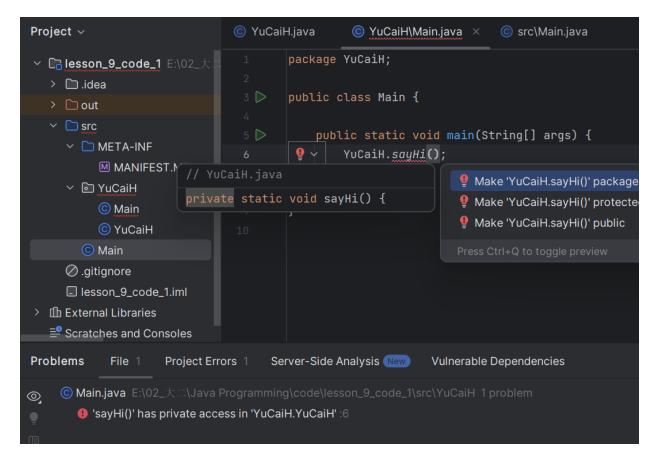
private access modifier

The access level is only inside the class.

```
© YuCaiH.java × © YuCaiH\Main.java © src\Main.java

2
3 ▷ public class YuCaiH {
5 ▷ public static void main(String[] args) {
6 System.out.println("before sayHi");
7 sayHi();
8 }
9

1 usage
10 private static void sayHi() {
11 System.out.println("Hi from YuCaiH");
12 }
13
14 }
```



static non-access modifier

You can access fields/methods using the class name.

```
91 A1 ^
  lesson_9_code_1 E:\02_5
                                       public class YuCaiH {
   > 🗀 .idea
  > 🗀 out
                                            public static void main(String[] args) {

∨ □ src

                                                System.out.println("before sayHi");

✓ ► META-INF

                                                sayHi();
          M MANIFEST.MF
     © Main
                                         3 usages 2 related problems
          © YuCaiH
                                            public void sayHi() {
                                                System.out.println("Hi from YuCaiH");
       © Main
     ② .gitignore
     lesson_9_code_1.iml
Scratches and Consoles
Problems
                                     Server-Side Analysis New
            File 2
                    Project Errors 1
                                                              Vulnerable Dependencies
    ⑥ YuCaiH.java E:\02_大二\Java Programming\code\lesson_9_code_1\src\YuCaiH 2 problems
       Non-static method 'sayHi()' cannot be referenced from a static context :7
       ▲ Found problems related to 'sayHi()' :10
```