```
/*
 * What is annotation? 1.5
 * -----------------
 * AKA meta data ..
 *
 *       annotation
 *          |
 *     ----------------------
 *     |                     |
 *     predefine             Custom annotation
 *        |
 *   -----------
 *   |           |
 *   basics    meta for other
 *               annotations
 *
 * @Override
@SuppressWarning
@SuppressWarnings({"rawtypes", "unchecked"})
@Deprecated
@Target
@Retention
@Documented
@Inherited
@FunctionalInterface (Java 8)
 */
```

what is java reflection

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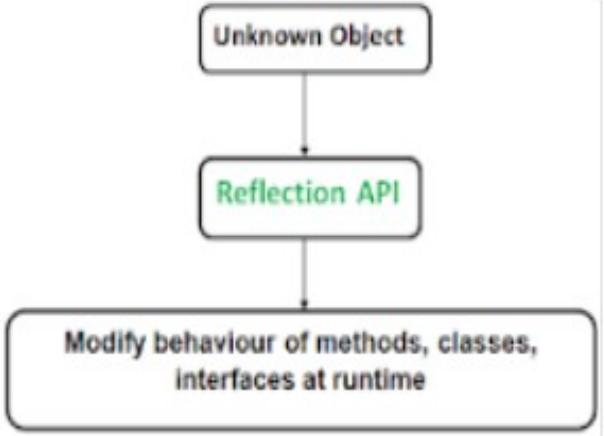
Reflection is an API which is used to examine or modify the behavior of methods, classes, interfaces at runtime. The required classes for **reflection** are provided under **java**. lang. reflect package. ... Through **reflection** we can invoke methods at runtime irrespective of the access specifier used with them.

Mar 22, 2017



www.geeksforgeeks.org › reflection-in-java

Reflection in Java - GeeksforGeeks

```java
    @Foo(val="my new value", isValid=true)
    public  void fooClient(){
        System.out.println("foo client method");
    }
}

public class DemoAnn {

    public static void main(String[] args) {
        //I wann to process that annotation whenever my fooClient method runs...

        //How to use java ref! next session i will discuss in details!

        // 3 ways to get Class object in java? "what the hell this Class class"
        Class c=new ClientFoo().getClass();

        Method[] methods=c.getDeclaredMethods();

        for(Method m:methods){
            if(m.isAnnotationPresent(Foo.class)){
                Foo foo=m.getAnnotation(Foo.class);
                System.out.println(foo.val());
                System.out.println(foo.isValid());

            }
        }


    }
```

```
    // Dog
    Dog d = new Dog();

    Class dClass = d.getClass();

    Method[] methods = dClass.getMethods();// detMethod vs
                                           // dClass.getDeclaredMethods();

    for (Method m : methods) {
        System.out.println(m.getName());
        System.out.println(m.getModifiers());
        System.out.println(Modifier.toString(m.getModifiers()));
        System.out.println(m.getParameterCount());
        m.getParameters();
    }

    Constructor [] constructors=dClass.getDeclaredConstructors();


    for(Constructor c: constructors){
        System.out.println(c.getName());
        System.out.println(c.getModifiers());

    }
}
```