



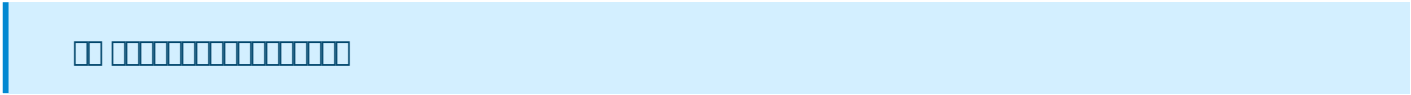
Web

- Java
 - Java - final
 - JDA Discord Forum Channel Thread
 - Java - Type Casting
- Spring (Spring Boot)
 - Spring

Java

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Java 面试题 - final 关键字



final 在 Java 中有什么作用？ Code 是什么？

final 关键字 class 成员

final 修饰 class 成员

编译错误 Compile error



Override 覆盖

编译错误 Compile error



编译错误 Compile error

final 修饰成员变量



- final 修饰 abstract 成员变量
- Reflection API 中 final 修饰的变量

Java

JDA ❷ Discord Forum Channel ❷ Thread ❷

Code ❷

```
public class Main extends ListenerAdapter {

    public static final String TOKEN = "<BOT_TOKEN_HERE>";
    public static final String SERVER_ID = "<SERVER_ID_HERE>";
    public static final String PROJECT_FORUM_ID = "<FORUM_ID_HERE>";

    public static void main(String[] args) throws InterruptedException {
        JDA jda = JDABuilder.createDefault(Main.TOKEN).build();

        jda.addEventListener(new Main());
    }

    @Override
    public void onReady(ReadyEvent event) {
        System.out.println("Bot is ready");
        JDA jda = event.getJDA();

        Guild server = jda.getGuildById(SERVER_ID);
        assert server != null;
        ForumChannel channel = server.getForumChannelById(PROJECT_FORUM_ID);
        assert channel != null;
        System.out.printf("Channel name: %s%n", channel.getName());
        List<ThreadChannel> threadChannels = channel.getThreadChannels();

        for(ThreadChannel thread : threadChannels){
            System.out.printf("Thread: %s%n", thread.getName());
        }
    }
}
```

```

    }

    //  Bot
    //  jda.shutdown();

    }

}

```



- JDA Guild (Discord Server) Guild ForumChannel
- `getThreadChannels()` ThreadChannel List
- List for



- **TOKEN** **Channel ID** **(Hardcode)**
- JDA (JDA.shutdown()) Gradle

Java ☐☐ - Type Casting

[illegible]Casting

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```
class Animal {
    void speak(){
        System.out.println("Default speak");
    }
}
```

```
class Bird extends Animal {
    @Override
    void speak() {
        System.out.println("☐☐ ");
    }
}
```

```
class Dog extends Animal {
    @Override
    void speak() {
        System.out.println("🐶");
    }
}
```

```
public class main {  
    public static void main(String[] args) {  
        Animal animal = new Animal();  
        Bird bird = new Bird();  
        Dog dog = new Dog();  
  
        animal.speak();  
        bird.speak();  
        dog.speak();  
    }  
}
```

```
// Upcasting and Downcasting
```

```
Animal animal2;
```

```
animal2 = bird; // Upcasting
```

```
animal2.speak(); // works normally
```

```
Bird bird2;
```

```
// bird2 = animal; // Down casing, compile error
```

```
// bird2 = (Bird)animal; // Compile pass
```

```
// bird2.speak(); // but throw ClassCastException error
```

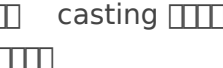


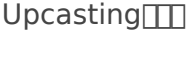
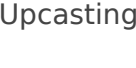







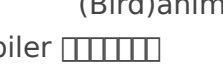

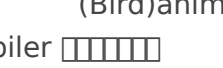



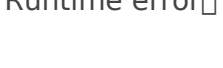


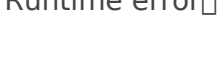
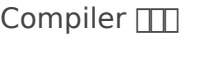



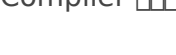
```
Dog dog2;
```

```
// dog2 = bird; // Obviously not working for compiling
```

```
// dog2 = (Dog)bird; // Cannot casting to another child class, compile error.
```

```
}
```

```
}
```

- Bird  casting  Animal  Upcasting  Upcasting 
-  animal casting  Bird  Animal  Bird  Compiler 
 -  Downcasting  Compiler 
-  (Bird)animal  Compiler  Compiler 
 -  JVM  ClassCastException  Runtime error 
-  Animal  class  Compiler  ... 

Spring (스프링) Spring Boot

Java 스프링

Spring () Spring Boot)



Spring ()

1. () <https://start.spring.io/>
2. Project () Gradle - Kotlin() Kotlin DSL()
3. Spring Boot ()
4. Project Metadata ()
5. Packaging () Jar()
6. Java ()
7. Dependencies () Add Dependencies...() Spring Web()
8. () GENERATE()