



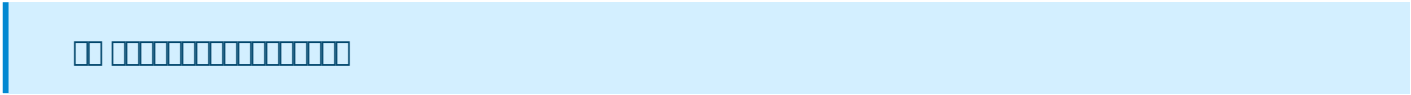
Web

- 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 修饰 class 吗？

final 修饰 class 有什么作用？

final 修饰 class 有什么作用？ Compile error



final 修饰 array 有什么作用？ Override

final 修饰 array 有什么作用？ Compile error



final 修饰 array 有什么作用？ Compile error

final 修饰 array 有什么作用？ final



- final 修饰 abstract 有什么作用？
- final 修饰 Reflection API 有什么作用？ final 有什么作用？

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

Type Casting

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.
```

```
}
```

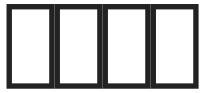
```
}
```

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

Spring (스프링) Spring Boot

Java 스프링 프레임워크

Spring (☐☐ Spring Boot)



Spring

1.
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