



FUNCTIONAL INTERFACES IN JAVA — EXPLAINED SIMPLY

The foundation of Lambdas &
Streams

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What is a Functional Interface?

- An interface with exactly ONE abstract method.
- Used to represent a single functionality.
- Can have default & static methods (but still only ONE abstract method).





Why are they important?

- Enable Lambda Expressions
- Power Java Streams API
- Reduce boilerplate code
- Promote clean & readable functional style



Examples (Built-in)

Java provides many:

- Runnable → run()
- Callable → call()
- Comparator → compare()
- Consumer → accept()
- Function → apply()
- Supplier → get()
- Predicate → test()



Example Code

```
@FunctionalInterface  
interface Greeting {  
    void sayHello(String name);  
}  
  
public class Main {  
    public static void main(String[] args) {  
        Greeting g = (name) ->  
        System.out.println("Hello " + name);  
        g.sayHello("Java");  
    }  
}
```

Output ↪ Hello Java





Key Notes

- ⚡ Marked with `@FunctionalInterface` (optional, but good practice).
- ⚡ If more than 1 abstract method → compile-time error.
- ⚡ Widely used in Streams, Lambdas, Event Handling.





Wrap-Up

🚀 Functional Interfaces are the backbone of Java's functional programming.

Next time you use a lambda or a stream operation, remember:

👉 A functional interface is working behind the scenes!



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HELPED YOU?

👉 Drop a comment or DM me!



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