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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).



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Why are they important?

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

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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



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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.

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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?

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