

Lambda Expressions

J9

Lambda Expressions

From Java version 8, lambda expressions allow code to be passed as a parameter, just like data.

- Particularly useful for event handling; can pass behavior as an argument (“do *this* when x happens”)
- Syntax:
 - Comma-separated formal parameters (x)
 - Arrow (->)
 - Body (either single expression or statement block, which may contain **return**)
x -> x > 100 or x -> { ... **return** x > 100; }

Functional Interfaces

A lambda expression implements a functional interface: an interface which only defines a single method.

Common functional interfaces are defined in package `java.util.function`, e.g.

```
public interface IntPredicate {  
    boolean test(int value);  
}
```

```
public interface DoubleSupplier {  
    double getAsDouble();  
}
```