



Lambda Expressions

J9



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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 true; }`



Functional Interfaces

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

Commonly-used functional interfaces are defined in package `java.util.function`, e.g.

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