



Lambda Expressions

J9



Lambda Expressions

Lambda expressions allow code to be passed as a parameter, just as data can be. Added to Java in version 1.8.

- 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();
}