



J09 Lambda Expressions

Lambda expressions

Lambda Expressions

Lambda expressions allow code to be passed as a parameter, just like data.

- Particularly useful for *event handling*; can pass *behaviour* as an argument ('do this when event "e" 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();  
}
```