



J09 Lambda Expressions

Lambda expressions

Functional Interfaces

A *functional interface* is 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();  
}
```

Lambda Expressions

Lambda expressions in Java are a shorthand for creating anonymous inner classes that implement functional interfaces.

- 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; }
```