

## Default methods

Evolve interfaces & create traits

```
//Default methods in interfaces
@FunctionalInterface
interface Utilities {
    default Consumer<Runnable> r() {
        return (r) -> r.run();
    }
    // default methods, still functional
    Object function(Object o);
}
class A implements Utilities { // implement
    public Object function(Object o) {
        return new Object();
    }
    // call a default method
    Consumer<Runnable> c = new A().r();
}
```

## Lambdas

Syntax:  
{parameters} -> expression  
{parameters} -> { statements; }

```
// takes an object, returns an Integer
Function<Long, String> f = (l) -> l.toString();
// takes nothing gives you Threads
Supplier<Thread> s = Thread::currentThread;
// takes a string as the parameter
Consumer<String> c = System.out::println;
// use them with streams
new ArrayList<String>().stream()
// peek: doing streams without changes
peek(e -> System.out.println(e)),
// map: convert every element into something
map(e -> e.hashCode()),
// filter: pass some elements through
filter(e -> ((e.hashCode() % 2) == 0)),
// collect all values from the stream
collect(Collectors.toCollection(TreeSet::new))
```

## java.util.Optional

A container for possible null values

```
// Create an optional
Optional<String> optional =
Optional.ofNullable(s);
// process the optional
optional.map(s -> "Rebellabs:" + s);
// map a Function that returns Optional
optional.flatMap(s -> Optional.ofNullable(s));
// run if the value is there
optional.ifPresent(System.out::println);
// get the value or throw an exception
optional.get();
// return the value or the given value
optional.orElse("Hello world!");
// return empty Optional if not satisfied
optional.filter(s -> s.startsWith("Rebellabs"));
```

## Rules of Thumb

Traits: 1 default method per interface  
Don't enhance functional interfaces  
Only conservative implementations

Expressions over statements  
Refactor to use method references  
Chain lambdas rather than growing them

Fields - use plain objects  
Method parameters, use plain objects  
Return values - use Optional  
Use `orElse()` instead of `get()`

# Java 8 Streams Best Practices And Pitfalls Cheat Sheet

**Michael Brown**



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