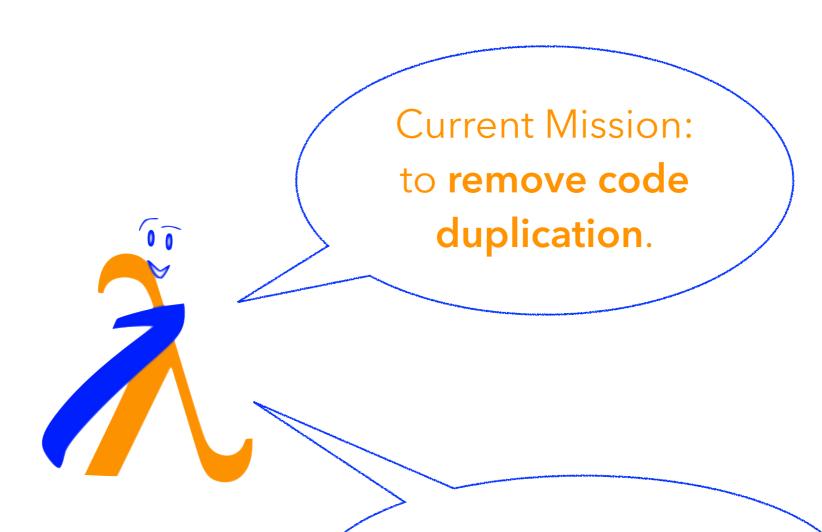
Improving Code with Functional Programming

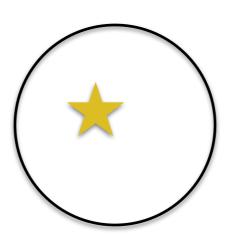
Jessica Kerr jessitron@jessitron.com @jessitron







The Background: timing sections of code.

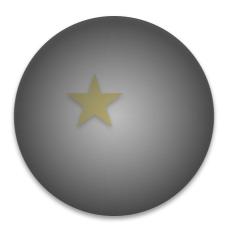


Encapsulation













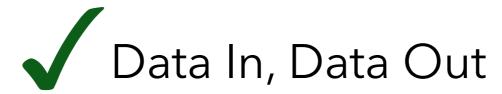




Isolation

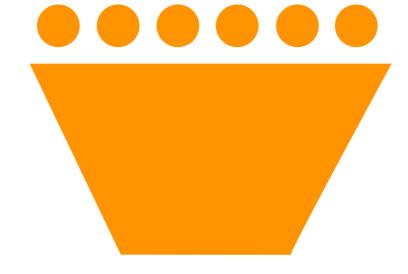










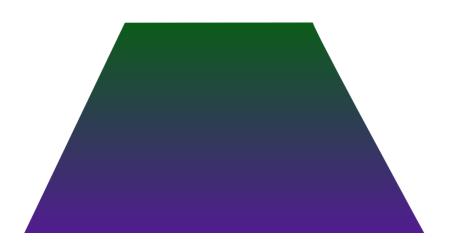


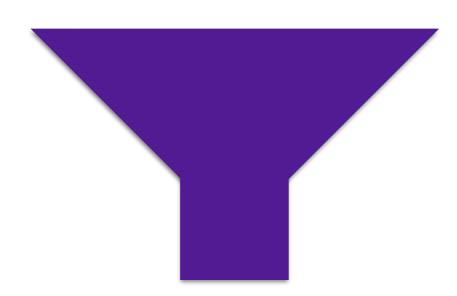
transform

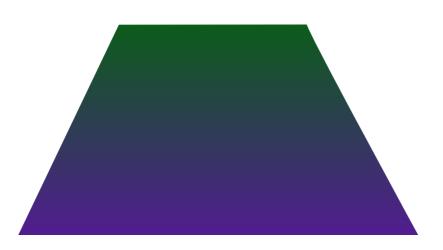


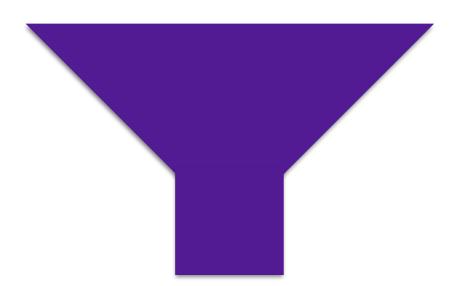


"little trees of broccoli"













Java 8

Java 6



External Iteration

Internal Iteration

FluentIterable

filter

transform

Joiner

Internal Iteration

FluentIterable

Stream

filter

filter

transform

map

Joiner

reduce



"carrots"

"bananas"

"pumpkins"

"broccoli"



"bananas"

"pumpkins"

"broccoli"



"bananas"

"pumpkins"

"broccoli"



"pumpkins"

"broccoli"



"pumpkins"

"broccoli"



"pumpkins"

"broccoli"



"broccoli"



"broccoli"



"broccoli"





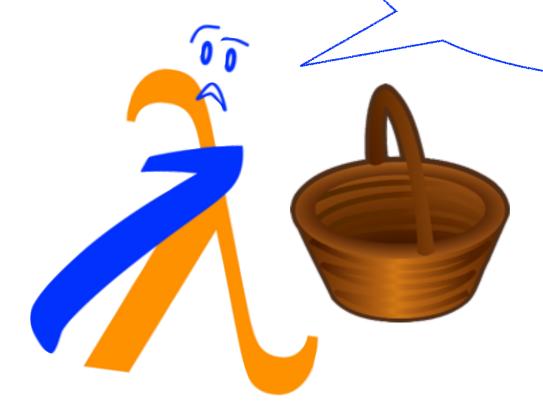








Well, it's better than "null."



```
tatic String summarize(List<S)
StringBuffer output = new Stri
boolean isFirst = true;
for (String d: descriptions) {
  if (!d.isEmpty()) {
    if (!isFirst) {
      output.append(" & ");
    String lastWord = lastWord(d);
    output.append(lastWord);
    isFirst = false;
return output.toString();
      tatic String
```



