

Pushing side-effects to the edge

```
(-> (.stream "payments")
    (groupByKey)
    (aggregate
      (constantly []))
      (fn [_ _ v aggregate]
        (conj aggregate v)))
    (toStream)
    (to "notifications"))
```

Breaking changes to (stateful) topology

- Requirements change (or there was a bug)
- Perhaps analogous to a traditional database migration
- Application reset tool
 - Reset/shift/skip input topic offset
 - Delete internal topics
- No way to transform (eg, migrate) internal topic data apart from replaying messages
- Requires careful thought on how to architect a streams application:
 - Replaying messages
 - Side effects
 - Impact on downstream applications