mgray@pivotal.io ~ >>> \$ cat /etc/bootiful_reactive.m4v

Bootiful Reactive Testing & CDC w/ Spring Boot 2

mgray@pivotal.io ~ >>> \$ whoami

Name: Mario Gray

Role: Developer Advocate / Principal Technologist

Twitter: @mariogray

Code/Github: https://www.github.com/marios-code-path/bootiful-testing

Today's Demo: "streamy-09-10-19"

mgray@pivotal.io ~ >>> \$ history | xargs jobs

... more history ...

++++ Plugs

AFA https://spring.io/blog/2018/02/13/spring-cloud-contract-in-a-polyglot-world

DIY https://medium.com/@jshvarts/read-marble-diagrams-like-a-pro-3d72934d3ef5

mgray@pivotal.io >>> \$ cat /etc/whats_next

Test Driven Development!

- Helps prevent Engineering Disease

Reactive!

Helps Flow Control and Async Logic /

Test Slices!

- Yummy! - Lightens Surface Area of Integration Tests

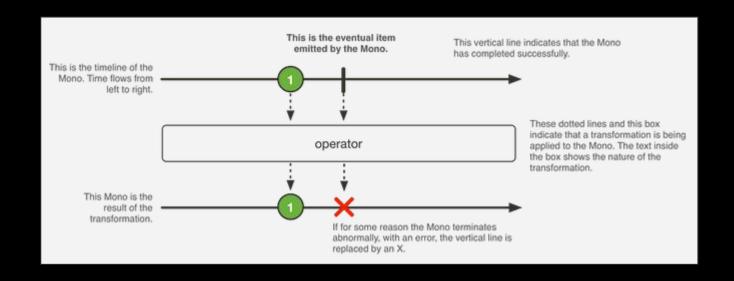
Spring Cloud Contracts!

- Makes Downstream Consumers Safe and Happy

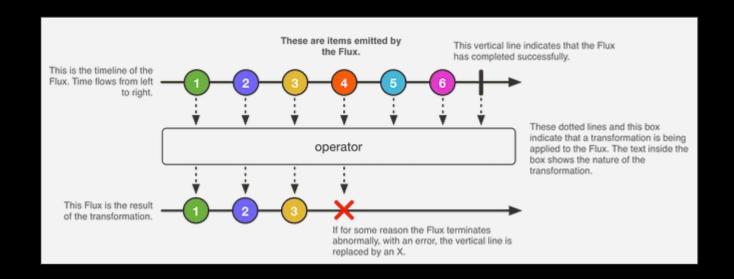
mgray@pivotal.io >>> \$ cat /etc/tdd/bobmartin/laws

- 1. You are not allowed to write any production code unless it is to make a failing unit test pass.
- 2. You are not allowed to write any more of a unit test than is sufficient to fail; and compilation failures are test failures.
- 3. You are not allowed to write any more production code than is sufficient to pass the one failing unit test.

mgray@pivotal.io ~ >>> \$ cat /etc/reactive/publisher/mono



mgray@pivotal.io ~ >>> \$ cat /etc/reactive/publisher/flux



mgray@pivotal.io ~ >>> \$ cat /etc/reactive/redis/stream

Redis 5.0 introduces a logged data structure known as a 'Stream'

Additional Features include:

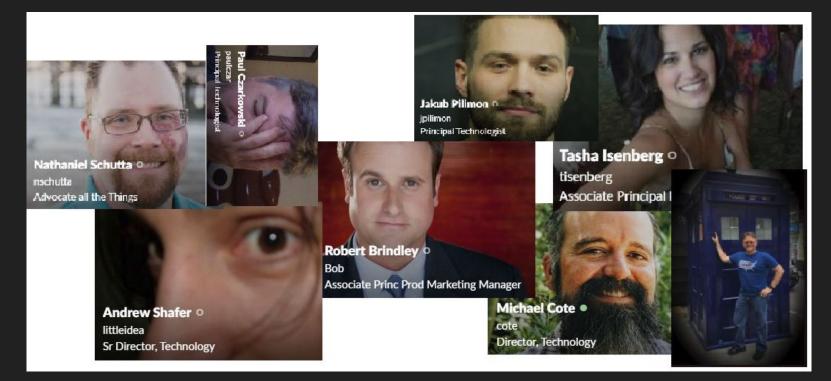
- Monotonically incrementing number that provides sub-millisecond write access using sequence numbers.
- Blocking Ops used to wait for new entries in a stream
- Kafka-esq Consumer Groups allowing clients to read from different portions of the stream

Demo Time!

(Reactive Data, Web, then CDC)

mgray@pivotal.io ~ >>> \$ cat /etc/issue

Say Hello to V V V (Plus the other "usual suspects")



mgray@pivotal.io ~ >>> \$ exit

This talk is shutting down in 60 seconds.

Link to this talk: https://www.github.com/marios-code-path/bootiful-testing

BLOG: http://www.sudoinit5.com

WIP: http://www.github.com/marios-code-path/demo-chat

Thanks!

Questions?

Here are some helpful learning resources:

https://github.com/reactor/reactor-ipc/blob/master/src/docs/asciidoc/net.adoc

https://github.com/reactive-ipc/reactive-ipc-jvm

http://www.reactive-streams.org

https://cloud.spring.io/spring-cloud-contract/multi/multi spring cloud contract verifier introduction.html

https://martinfowler.com/articles/201701-event-driven.html

http://jonasboner.com/foreword-reactive-design-patterns

https://projectreactor.io/docs/core/snapshot/api

(Marble Diagram Blog POST by: James Shvarts)

https://medium.com/@jshvarts/read-marble-diagrams-like-a-pro-3d72934d3ef5

https://github.com/mkheck/FSRx

(Intro to Redis Streams!: https://redis.io/topics/streams-intro)