RxJava

Reactive Extensions for the JVM

Part 1: Introduction to Rx

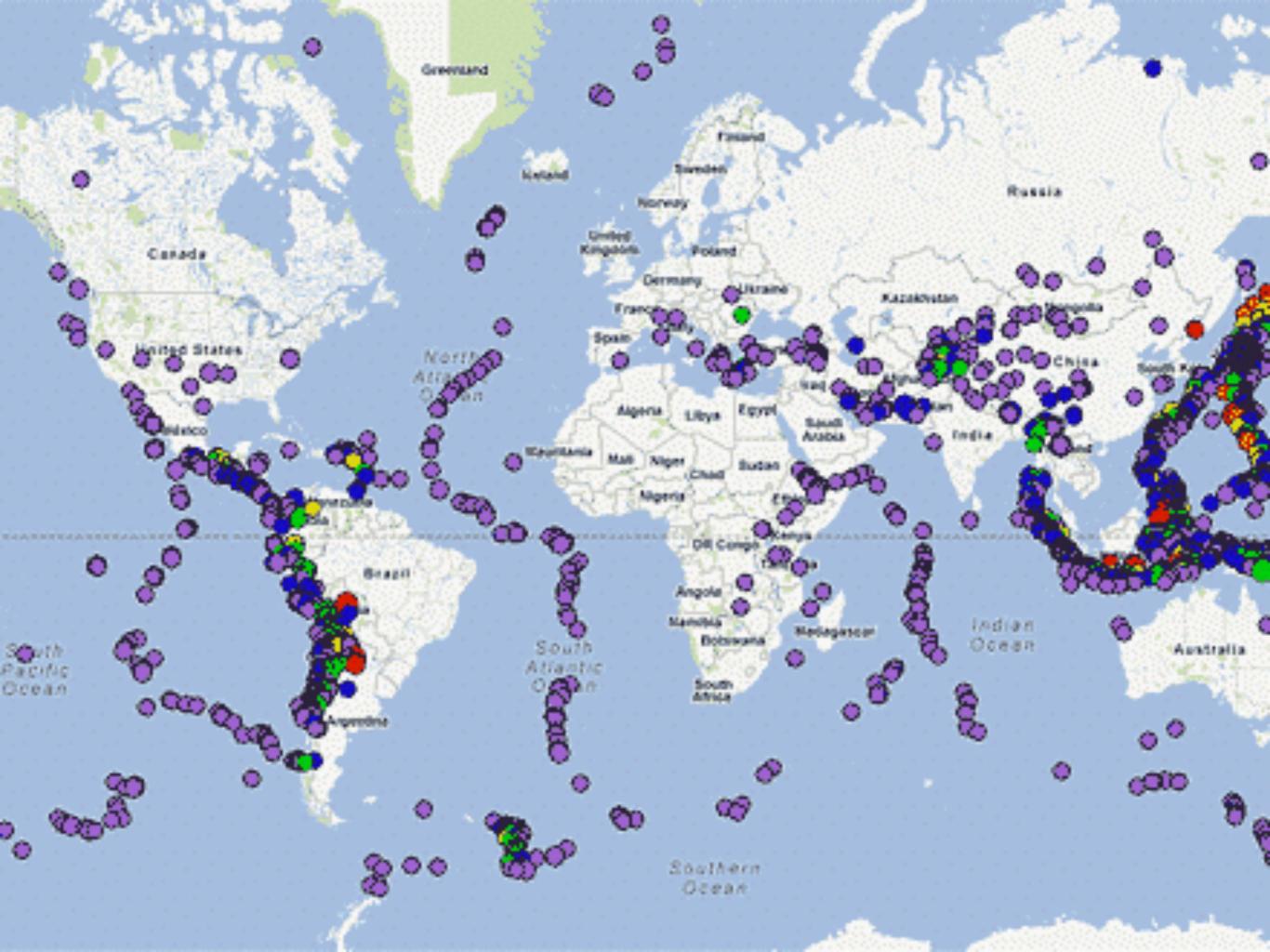
Part 2: Workshop

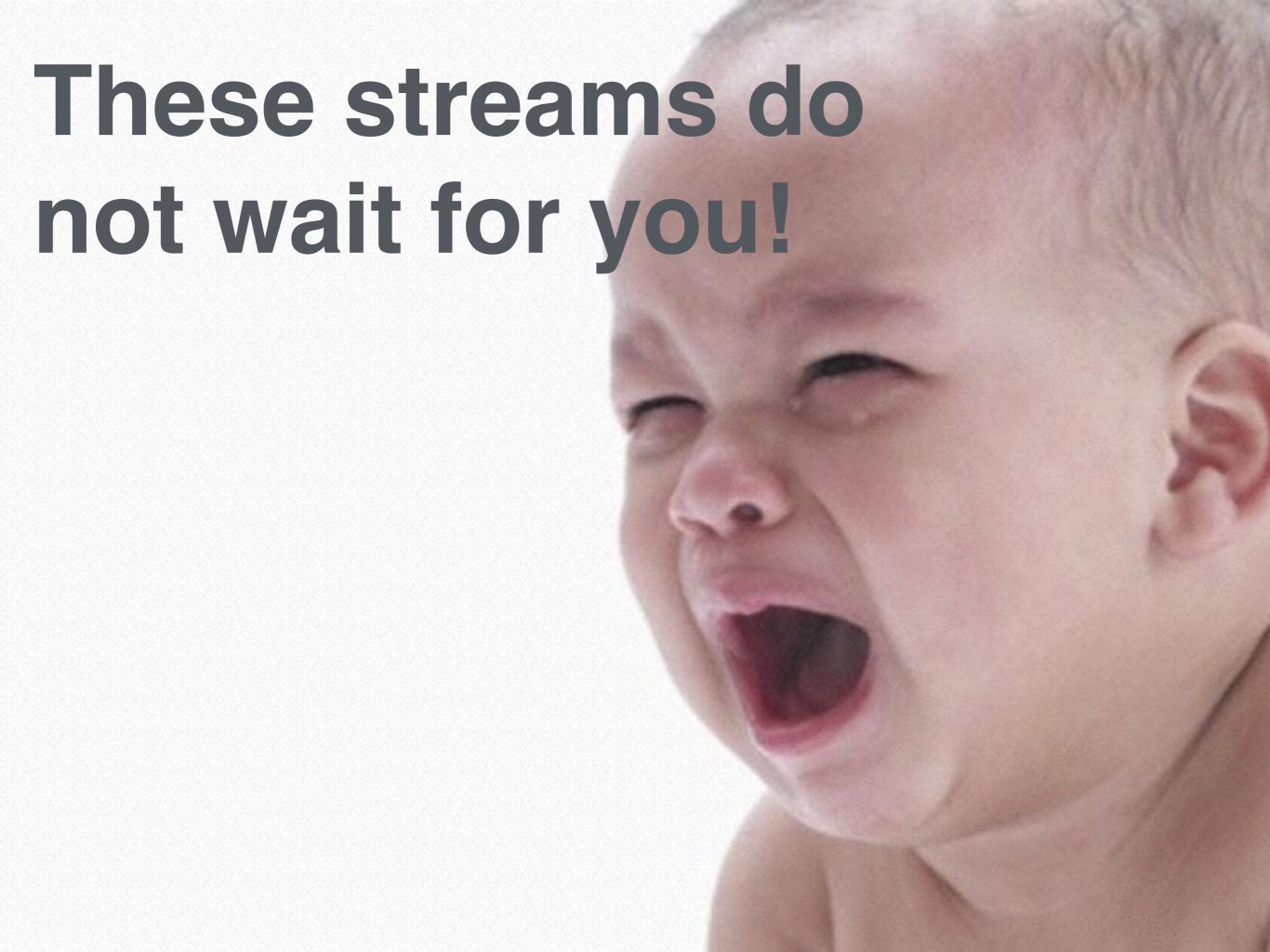
Java is functional!

```
Optional<Asset> findAsset(AssetId assetId) {...}
Optional<URI> getShareURI(AssetId assetId,
                          Function<Adaptor, Boolean> supportSharing,
                          Function<Adaptor, URI> generateURI) {
    return findAsset(assetId)
               .flatMap(asset ->
                   Stream.concat(Stream.of(primaryAdaptor), secondaryAdaptors.stream())
                       .filter(withExternalReference(asset))
                       .filter(supportSharing::apply)
                       .map(generateURI::apply)
                       .findFirst());
```







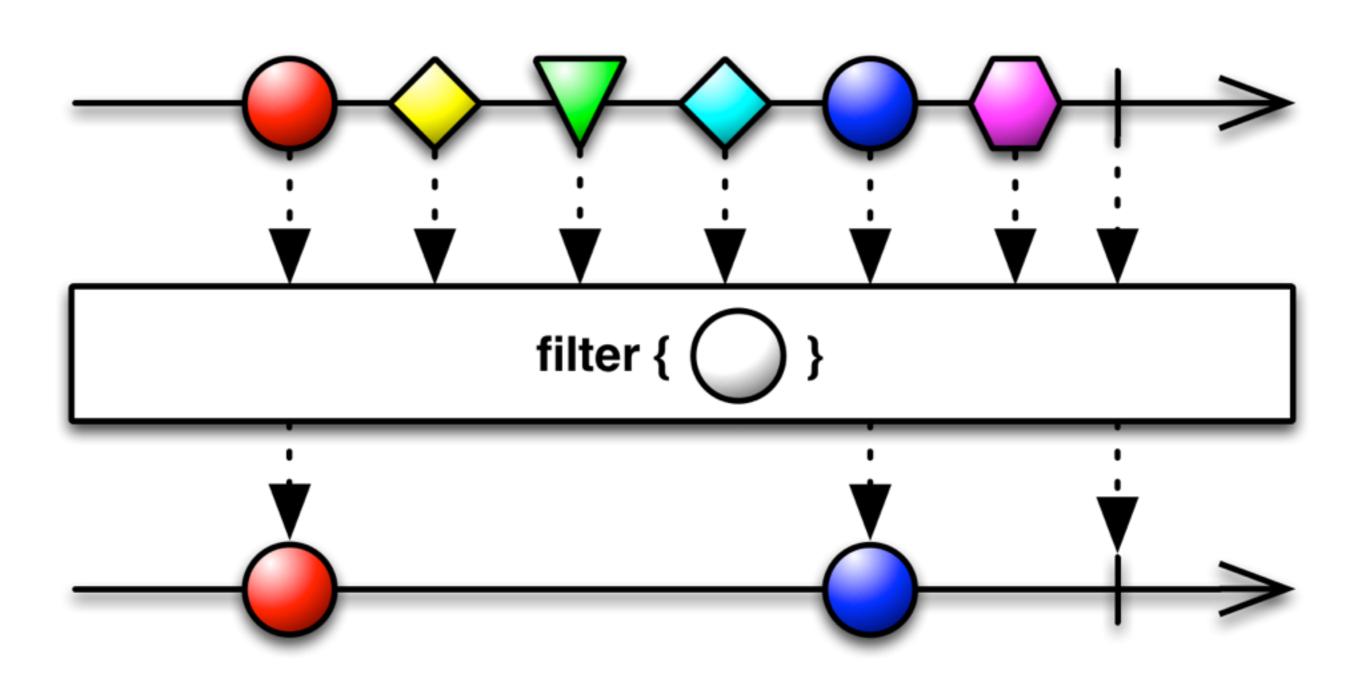


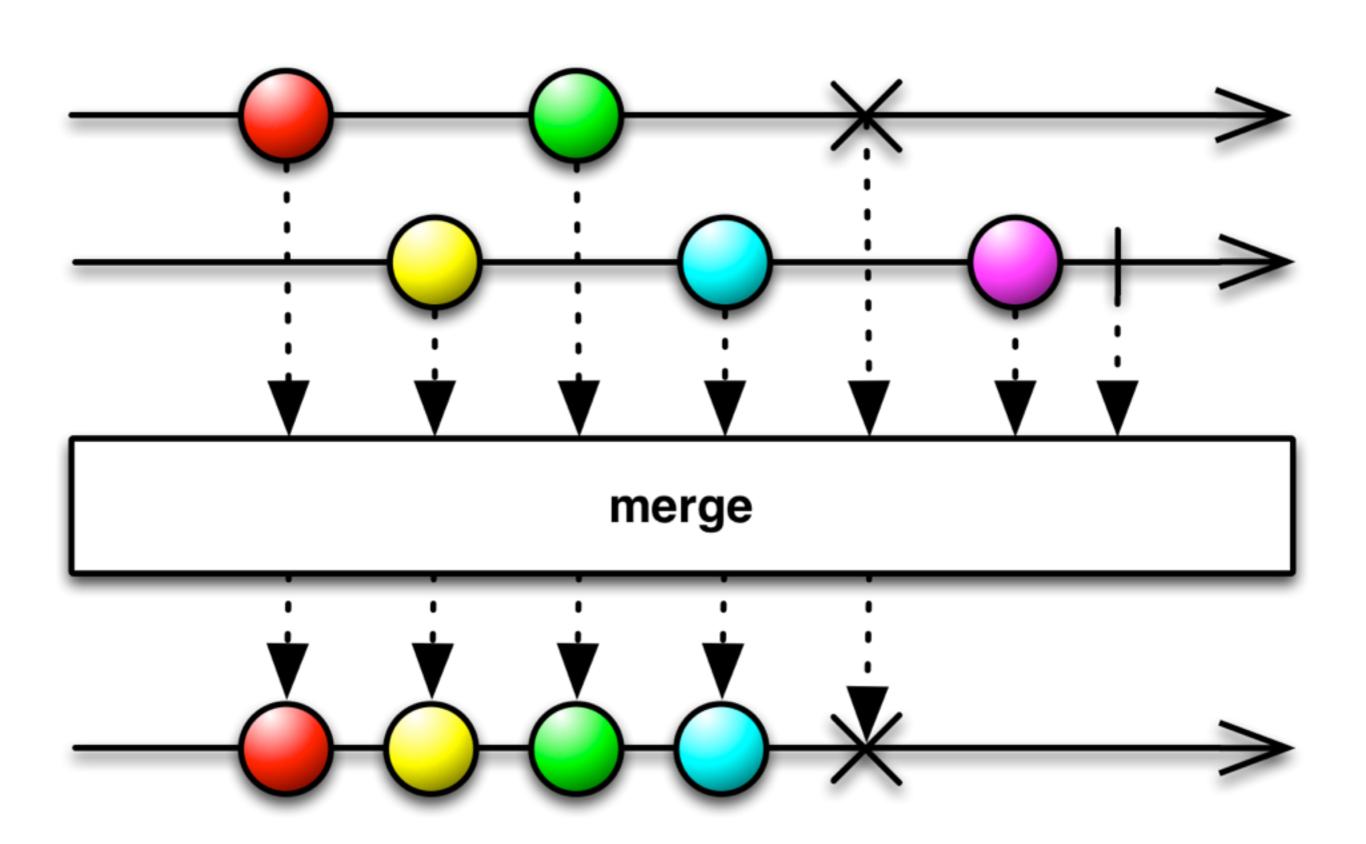
Observable streams!

Iterable «Pull»

Observable «Push»

```
getObservableStream()
         skip(10)
         take(5)
         map(s -> s + " transformed")
         forEach(System.out::println);
```





Observer onNext onCompleted onError

Observable subscribe

Subscription unsubscribe

Event-based UI

Rx = abstractions



«glue»

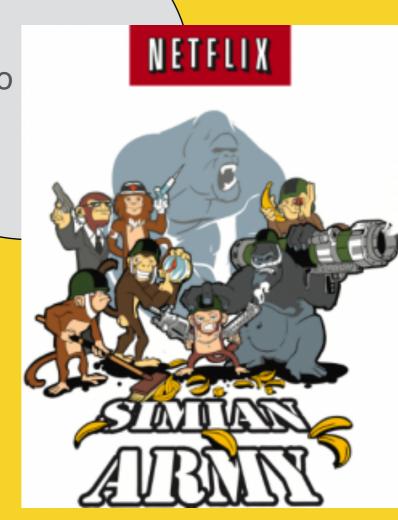
Client

Micro

Async computation

Error handling

Timeouts



Show me some code!

Part 2: RxSnake

git@github.com:mlundela/rx-demo.git