

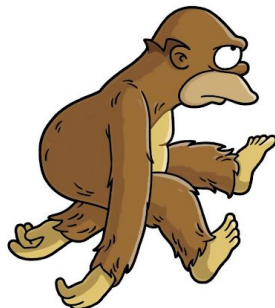
Spring Boot 2.0: Introduction to Reactive Programming

@rob_winch

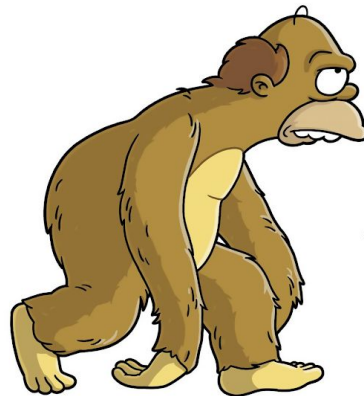
HOMERSAPIEN



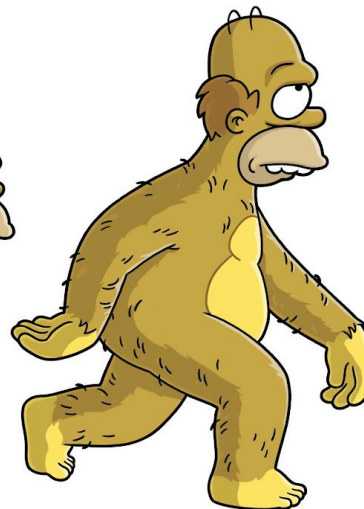
MONKIUS EATALOTIS



CHIMPUS IMBECILUS



APEIS STUPIDIUS



NEANDERSLOB

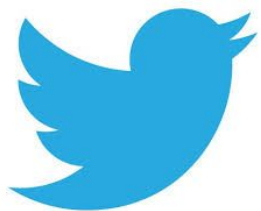


HOMERSAPIEN

MATT GROENING

Problems with Threading

- Threads waste resources (memory)
- Context Switching Decreases Performance
- Threads underutilize resources (CPU)



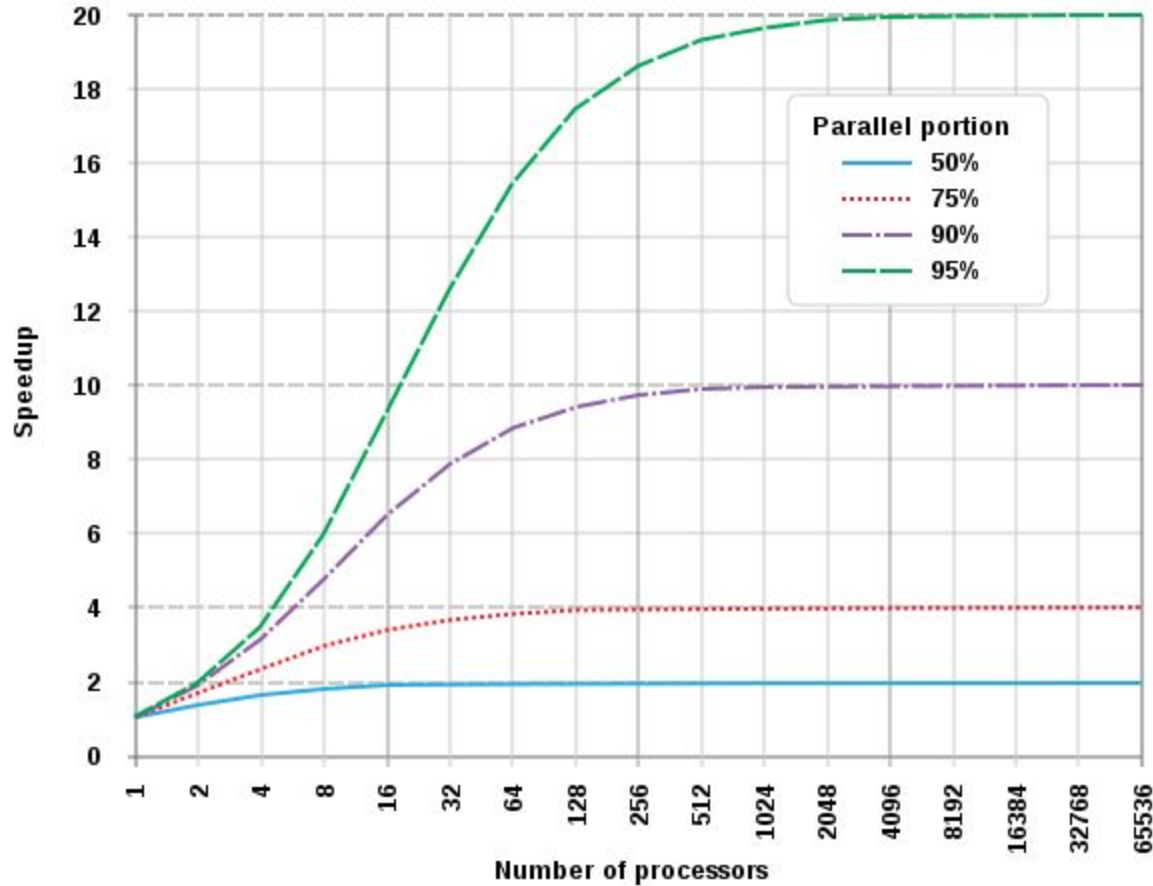
Google Cloud Platform





TOM
FISH
BURNE

Amdahl's Law



Adding **blocking code** will impact the performance of your code

Monolithic vs Microservices



Monolithic



Microservices

What is Reactive?







Reactive Manifesto

- Responsive
- Resilient
- Elastic
- Message Driven



Reactive Streams



Subscription



  request(long) void



  cancel() void

Subscriber



  onSubscribe(Subscription) void

  onNext(T) void

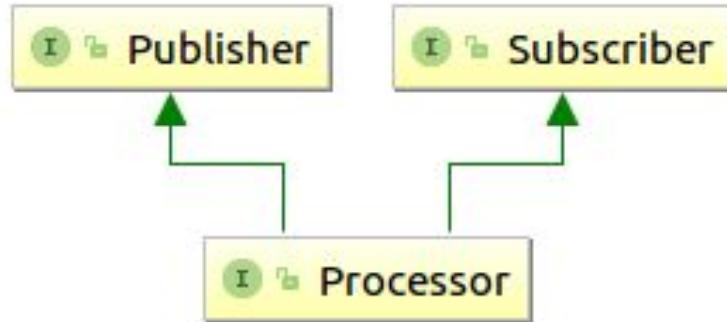
  onError(Throwable) void

  onComplete() void

Publisher

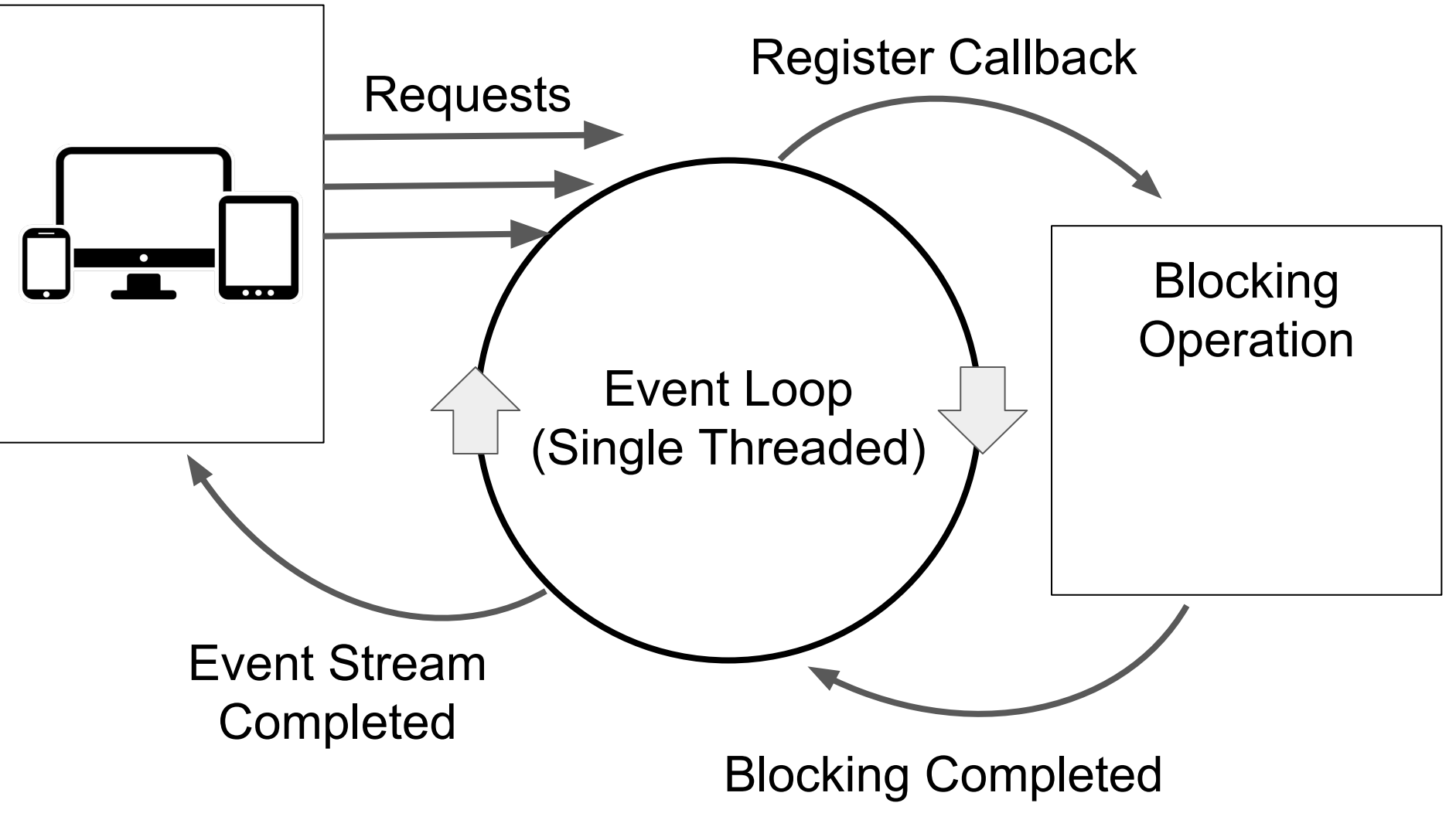
  subscribe(Subscriber<? super T>) void

Reactive Streams



Reactive Streams Implementations

- Akka
- MongoDB
- Ratpack
- Reactive Rabbit
- Reactor
- RxJava
- Slick
- Vert.x



Demo

<https://github.com/rwinch/spring-reactive-intro>