

**JET
BRAINS**

—

Becoming Fully Buzzword Compliant

—

Trisha Gee (@trisha_gee)

Developer & Technical Advocate, JetBrains



Trisha Gee

Developer Advocate at JetBrains

Digital Aguacates • University of Sussex

Sevilla Area, Spain • 500+ &

Note for recruiters: I am happily based in Spain and NOT looking to relocate back to London, or to anywhere else. I'm a developer / technical advocate / educator, based in Spain and working remotely for JetBrains. I love the combina...

[See more](#) ✓

★ All-Star profile

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533 Views of your post in the feed

<https://www.linkedin.com/in/trishagee/>

Skills & Endorsements



Java · 99+



Endorsed by Peter Lawrey and 20 others who are highly skilled at this



Endorsed by 5 of Trisha's colleagues at MongoDB

Software Development · 32



Endorsed by Frank Greco and 2 others who are highly skilled at this



Endorsed by 2 of Trisha's colleagues at MongoDB

Industry Knowledge

Continuous Integration · 35

Agile Methodologies · 26

Agile Project Management · 13

Scrum · 11

Distributed Systems · 10

Design Patterns · 10

Object Oriented Design · 9

Web Applications · 9

Tools & Technologies

MongoDB · 44

MySQL · 23

REST · 19

Git · 13

or: Tips on Surviving the Technology Industry



Recent Past (~5 years ago)

- Asynchronous Programming
- NoSQL
- Distributed Version Control
- JavaScript & HTML5
- Continuous Delivery
- DevOps
- Cloud

More Recent Past (~2 years ago)

- Reactive
- Big Data
- Git
- JavaScript & HTML5
- Continuous Delivery
- DevOps
- Cloud

Today

- Blockchain
- Containers
- Serverless
- Security
- Machine Learning / AI
- Ethics

Looking back further...

- Prince2
- Scrum
- SVN
- Flash
- AWT
- Test Driven Development
- Static Typing

Looking back further...

- Prince2
- Scrum
- SVN
- Flash
- Swing
- Test Driven Development
- Static Typing

How Can We Tell What's Important?

How can we avoid Extinction?

Step 1: Denial



Step 1: Awareness



NEWS

San Francisco: QCon.ai Schedule Nearing Completion

[WESLEY REISZ](#) ON MAR 01

Hyperscript Tagged Markup: A JSX Alternative Based on Standard JavaScript

[BRUNO COURIOL](#) ON FEB 28

2

On the road to Python 3.8: Assignment Expressions, Merging typed_ast and Multiprocessing Improvement

[ALEX GIAMAS](#) ON FEB 28

The Risk of Climate Change and What Tech Can Do: QCon London Q&A

[BEN LINDERS](#) ON FEB 28

Microsoft Announces Two New Azure Cloud Services Allowing Developers to Build Cross-Platform AR Apps

[STEEF-JAN WIGGERS](#) ON MAR 01

Red Hat Releases Eclipse Che-Based IDE CodeReady Workspaces

[MATT CAMPBELL](#) ON FEB 28

1

Portia Tung on Playful Leadership

[PORTIA TUNG](#) , [SHANE HASTIE](#) ON FEB 28

The Importance of Event-First Thinking

[JAN STENBERG](#) ON FEB 28


TRENDING

10 days

40 days

6 months


- 1



Goodbye Client Side JavaScript, Hello C#'s Blazor

1
- 2


DevOps and Cloud InfoQ Trends Report - February 2019
- 3



Getting from Monolith to Microservices
- 4

2019 Scrum Master Trends Report Published
- 5


Google's Software-Driven Hybrid Cloud Platform Moves from Alpha to Beta Stage
- 6



Using CredHub for Kubernetes Deployments
- 7

Are Frameworks Good or Bad, or Both?

6
- 8



Grady Booch on Today's Artificial Intelligence Reality and What it Means for Developers

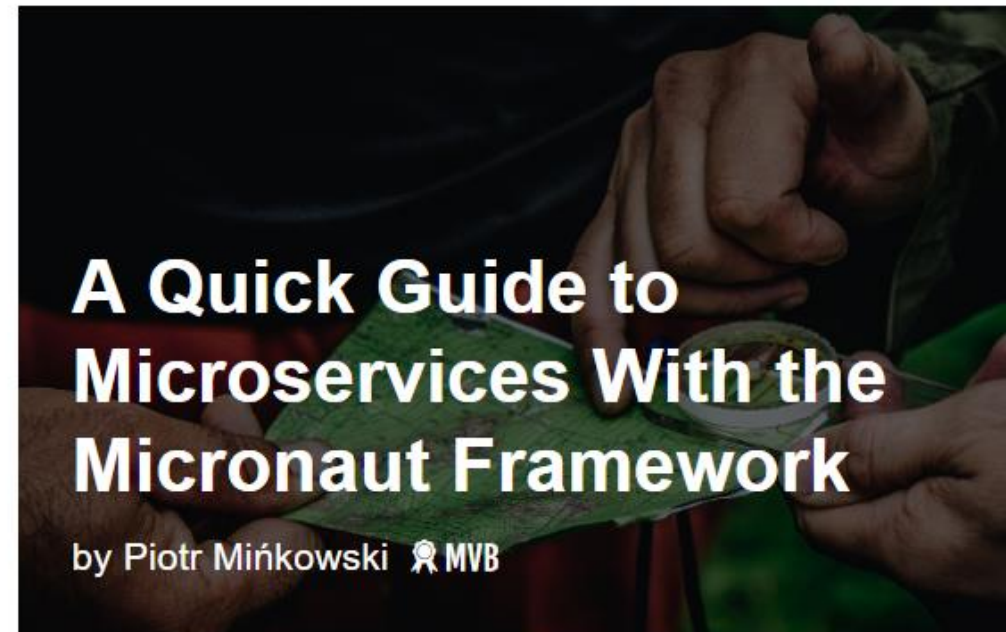
DZone Spotlight Friday, March 1



Describe, Then Interpret: HTTP Endpoints Using Tapir

 by Adam Warski  MVB

There's no shortage of great HTTP server libraries in Scala: akka-http, http4s, play, finch, just to name some of the more popular ones. However, a common pain point... [More](#)



A Quick Guide to Microservices With the Micronaut Framework

 by Piotr Mińkowski  MVB

The Micronaut framework was introduced as an alternative to Spring Boot for building microservice applications. At first glance, it is very similar to Spring. It... [More](#)



DZone's Guide to Big Data: Volume, Variety, and Velocity

[Download](#)
[Save](#)

Managing Bitemporal Data With BarbelHisto

by Niklas Schlimm

Will Our Software Bankrupt Us? [Interview]

by Pete Pizzutillo

AWS DevOps: Introduction to DevOps on AWS

 by Vishal Padghan  MVB

Why We Need to Rip Off the Cybersecurity Band-Aids

by Anne Baker

Duplicate Objects in Java: Not Just Strings

by Misha Dmitriev

Proposed SQL Server Defaults: Disable Lightweight Pooling

 by Randolph West  MVB


Refcard #289

Working With Time Series Data

by Daniella Pontes

[Download](#)
[Save](#)


Refcard #288

Low-Code Application Development

by Mike Hughes

[Download](#)
[Save](#)


My 2019 Predictions for Big Data in the Enterprise

by Alex Gorelik



AWS S3 Bucket Naming Challenge [Comic]

 by Jayashree Hegde Adkoli  MVB

WARNING

**CLOUD
DISASTER
AHEAD**

2 reasons to avoid industry-specific cloud technology

Too often, industry-specific platforms use inferior technology and take too much work to reconfigure

BY DAVID LINTHICUM

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JavaScript dapps: Build decentralized apps with Blockstack

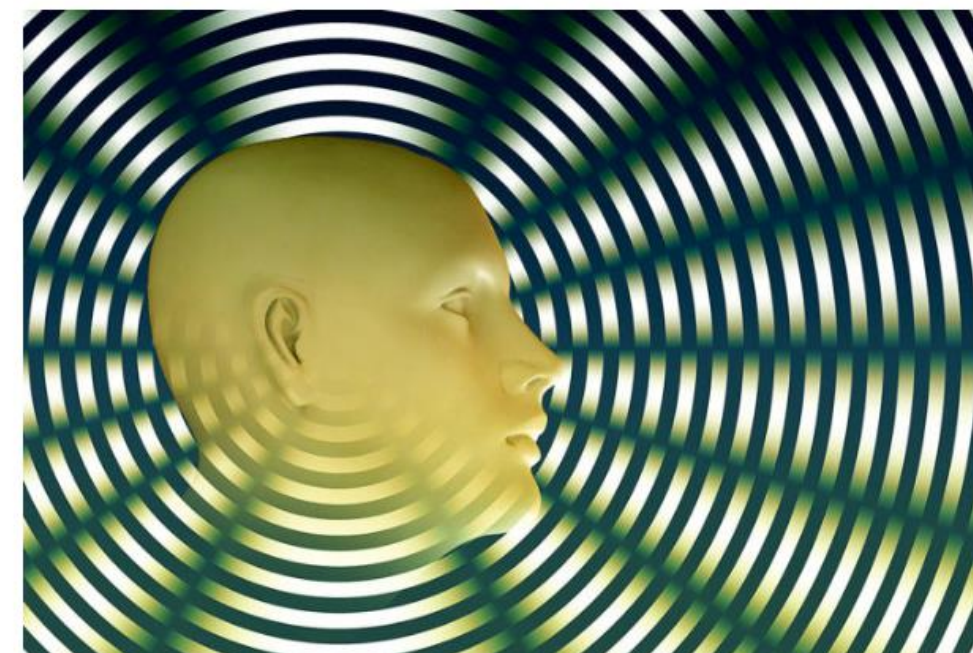
How to validate data, analytics, and data visualizations

Why 35 percent of cloud spending is wasted

What's new in Google's Dart 2.2 language

BY INFOWORLD STAFF

Deep dive: AI, machine learning, and deep learning



BY ISAAC SACOLICK


ARE YOUR USERS AND DATA PROTECTED FROM MALWARE?

Get the free eBook »

Infoblox

INFOWORLD REVIEWS

Comparison
Cloud IDE review: AWS Cloud9 vs. Eclipse Che vs. Eclipse Theia

 **MUST READ:** [Hands-on with Microsoft HoloLens 2: More comfortable, more intuitive and more potential](#)

Here are the 10 top tech trends you need to understand right now

From autonomous things and blockchain to quantum computing; how many of these technologies are you ready for?



By [Steve Ranger](#) | October 16, 2018 -- 12:13 GMT (13:13 BST) | Topic: [Innovation](#)

TL;DR:

Autonomous things, Augmented analytics, AI-driven development, Digital twins, Edge computing, Immersive experience, Blockchain, Smart spaces, Digital ethics and privacy, Quantum computing

Top Tech Trends In 2019: 11 Experts Detail What You Need To Watch



Forbes Technology Council CommunityVoice ⓘ

TL;DR:

Increased Automation, Blockchain Comeback, Human/AI Collaboration, Connected Devices, Augmented Reality, Cybersecurity Using ML And AI, Solutions To The Tech Backlash, Technology Convergence, Augmented Analytics Using Natural Language, Data Security

TechRepublic @TechRepublic 59s
AWS Firecracker is tiny, efficient, fast, and might redefine the virtual machine. Here's what you need to know about this AWS product.
tek.io/2Eti7bM

Image

Retweet Heart More

Ali Spittel Retweeted

DCFemTech @DCFemTech 1m
🎉 It's that time of year! Nominations for the 2019 DCFemTech Awards are now open! Know an amazing woman who codes, designs, or works with data? Are you one? [#dcft19](#) [#dctech](#)

Nominate yourself or others dcfemtech.typeform.com/to/aodjHg

Image

Retweet 3 Heart 2 More



Ali Spittel Retweeted

Prince @maxcell 6m
Being a teacher has really taught me to value expressive code for others and replicable code by others. It isn't cool to write smaller lines simply because it works. You aren't getting points for being "clever". It just makes it hard to maintain for others who come after you.

Retweet 1 Heart 4 More

Ron Jeffries @RonJeffries 1m

Simon Brown @simonbrown 14m
💡 A first version is live ... the "Create animated GIF" button will become enabled once you've exported one or more diagrams in your workspace.
[#WorkInProgress](#)

Simon Brown @simonbrown
I'm playing with generating animated GIFs ... is this a useful feature to have in [@structurizr](#)?



1 Retweet 3 Heart More

Martijn Verburg Retweeted

Matthew Cornford @bofalot 48m
Also, [@karianna](#) well done for putting together what looks like a great [#java](#) track [@qconlondon](#) I'm really looking forward to hearing all the other great speakers [@dianecraigdavis](#) [@trisha_gee](#) [@aardvark179](#) [@speakjava](#)

Retweet 1 Heart 3 More

Simon Brown Retweeted

Scott W. Ambler @scottwambler 35m
The other day in a workshop I had someone ask me if I had ever heard of a technique called "whiteboarding" and whether I thought it was a good idea for software architecture. Sigh.

2 Retweet 2 Heart 8 More

Justin Lee @evanchooly 36m

Filtering by

JAX London @jaxlondon 38m
[#IntelliJIDEA](#) 2019 progress report: 2019.1 Beta is here! bit.ly/2TuJCeV



Retweet Heart More

Dylan Beattie @NDCPorto 1h
"We call it the dilophosaurus factor: how many developers would need to be eaten by a dilophosaurus before you lost the ability to run your critical systems? It turned out our dilophosaurus factor was... one." - [@toddhgardner](#) sharing tech lessons from Jurassic Park [#NDCPorto](#)



Retweet 3 Heart 7 More

Simon Brown @simonbrown 1h
I'm playing with generating animated GIFs ... is this a useful feature to have in [@structurizr](#)?



Newsletters

<http://androidweekly.net/>

<http://www.kotlinweekly.net/>

<http://scalatimes.com/>

<http://groovycalamari.com/>

<http://www.baeldung.com/java-web-weekly/>

<https://info.jetbrains.com/Java-Annotated-Subscription.html>

Step 2: Speaking the Lingo



**Containerised reactive serverless
microservice blockchain big data
machine learning applications**

Containerised reactive serverless
microservice blockchain big data
machine learning applications

**Containers for
Java: Optimizing
Your
Applications**

Mofe Salami

Location: Henry
Moore, 4th flr.

Introduction to Containers

Adrian Mouat & Aliou Ba

[9:00am - 12:00pm]

**Kubernetes AMA
w/ Cebula,
Petazzoni &
Hoban**

Jérôme Petazzoni,
Luke Hoban,
Melanie Cebula

Location: Guild,
3rd flr.

**Getting Started With
Kubernetes and Container
Orchestration**

Jérôme Petazzoni & AJ
Bowen

[9:00am - 4:00pm]

**Develop
Hundreds of
Kubernetes
Services at
Scale With
Airbnb**

Melanie Cebula

Location:
Fleming, 3rd flr.

**Programming the Cloud
with TypeScript:
Serverless, Containers and
Kubernetes**

Luke Hoban & Sean
Gillespie

[9:00am - 4:00pm]

**Choosing
Kubernetes:
Managing Risk in
Cloud
Infrastructure**

Ben Butler-Cole

Location: Whittle,
3rd flr.

Presentation: Why Developers Shouldn't Care About Containers

Track: [Solutions Track IV](#)

Location: **Mountbatten, 6th flr.**

Duration: **11:50am - 12:40pm**

Day of week: **Wednesday**

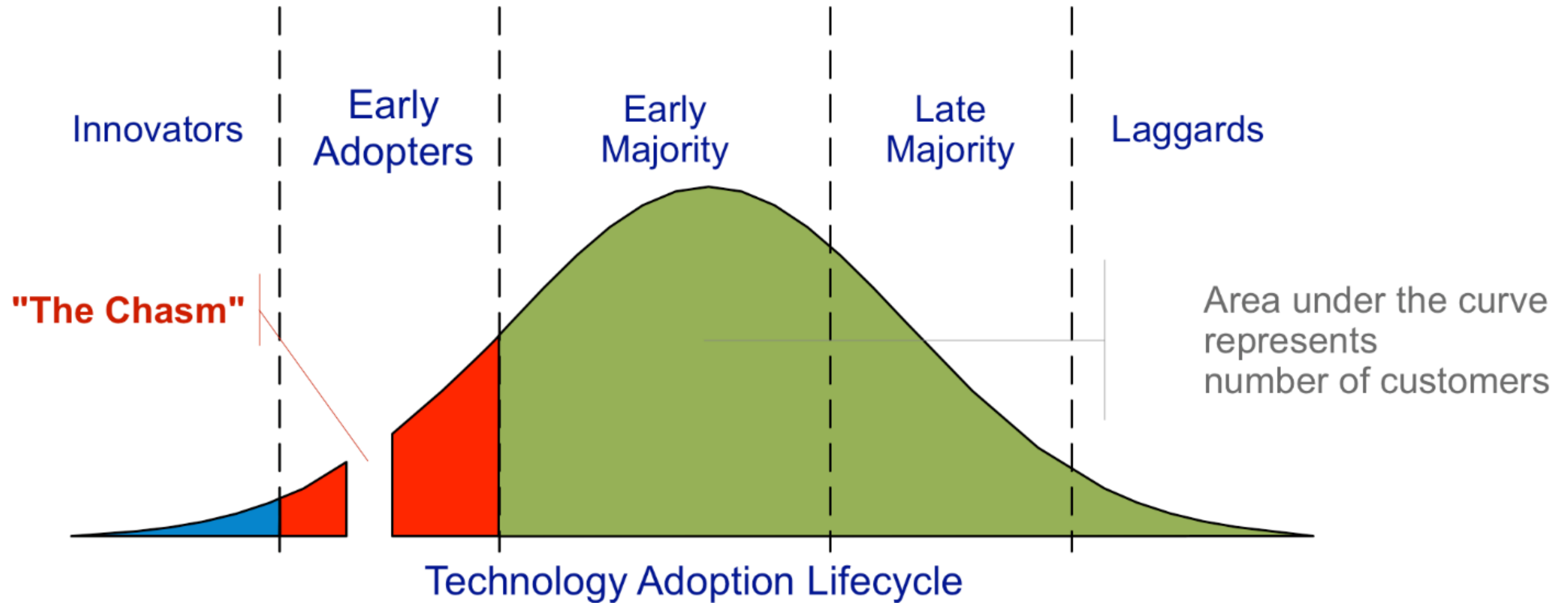
Share this on:



Abstract

Imagine a world where developers don't even need to know what a container is? A world where writing code is literally all a developer needs to worry about. Turns out that world already exists - and in multiple forms! Ed will cover how to increase development efficiency and will use the open

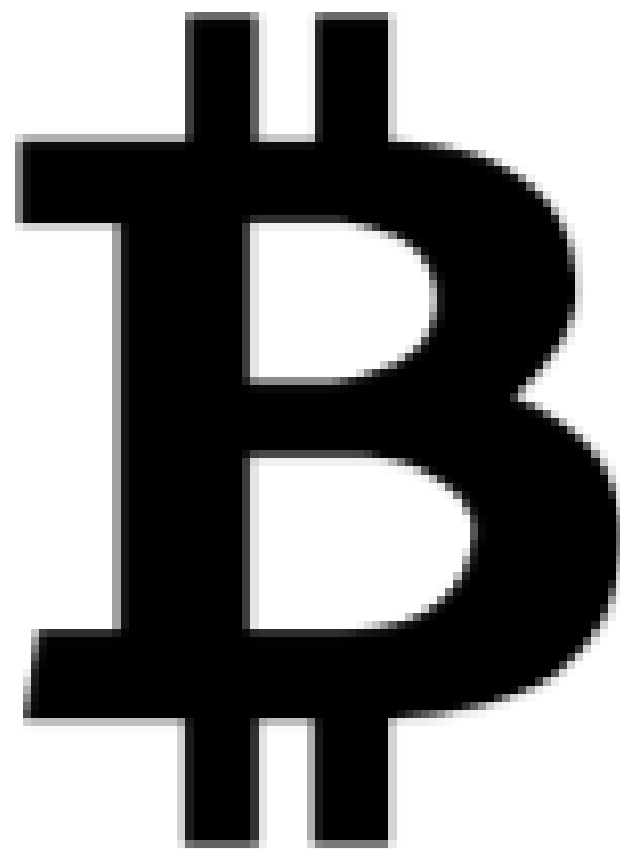
Containerised reactive serverless
microservice blockchain big data
machine learning applications



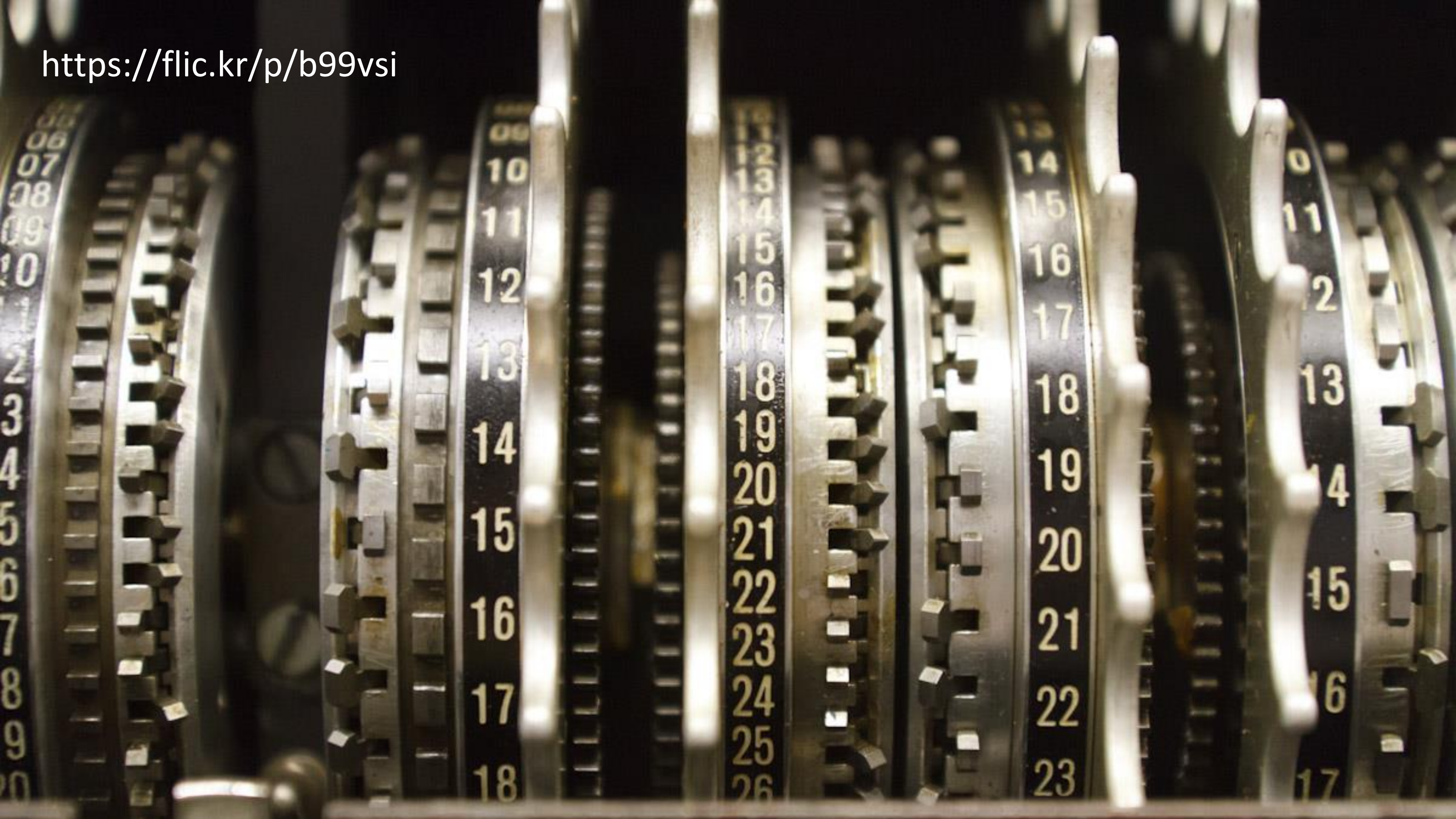
Containerised reactive **serverless**
microservice blockchain big data
machine learning applications

Containerised reactive serverless
microservice **blockchain** big data
machine learning applications

£ \$ €



<https://flic.kr/p/b99vsi>



Containerised reactive serverless
microservice blockchain **big data**
machine learning applications

Containerised reactive serverless
microservice blockchain big data
machine learning applications

SCHWARZENEGGER

A promotional image for the movie Terminator 2: Judgment Day. It features Arnold Schwarzenegger as the Terminator, wearing his signature black leather motorcycle jacket and sunglasses. He is seated on a motorcycle, holding a large, futuristic rifle. The background is dark, and the lighting highlights his face and the motorcycle's details.

IT'S NOTHING
PERSONAL.

TERMINATOR 2

JUDGMENT DAY[®]

Containerised reactive serverless
microservice blockchain big data
machine learning applications

Containerised **reactive** serverless
microservice blockchain big data
machine learning applications

Step 3: Enough Knowledge to be Dangerous



Containerised **reactive** serverless
microservice blockchain big data
machine learning applications

Reactive Systems?

Reactive Programming?

Functional Reactive Programming?

Functional reactive programming, commonly called *FRP*, is most frequently misunderstood. FRP was very precisely defined 20 years ago by Conal Elliott. The term has most recently been used incorrectly¹ to describe technologies like Elm, Bacon.js, and Reactive Extensions (RxJava, Rx.NET, RxJS) amongst others. Most libraries claiming to support FRP are almost exclusively talking about *reactive programming* and it will therefore not be discussed further.

<https://www.oreilly.com/ideas/reactive-programming-vs-reactive-systems>

Reactive programming vs. Reactive systems

- Reactive is a set of design principles
- Event-driven vs. message-driven
- From programs to systems
- The resilience of reactive systems
- The elasticity of reactive systems

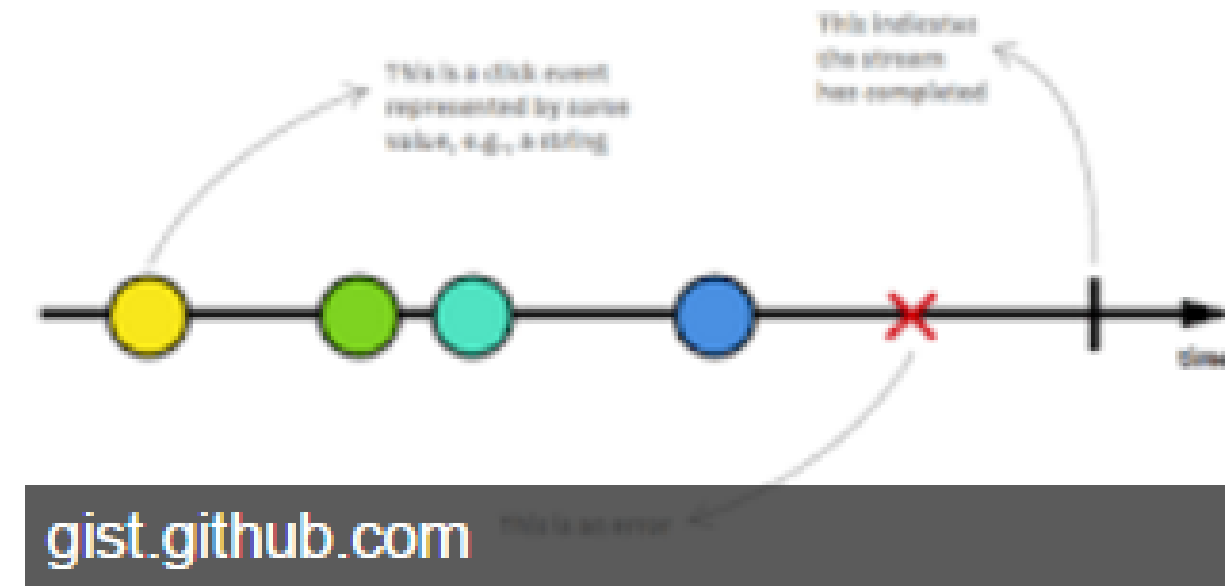
Reactive Systems sound hard

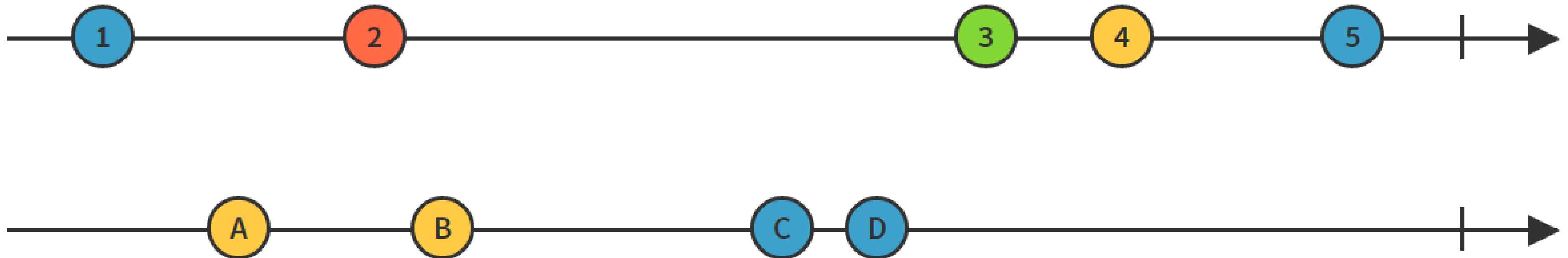
**Reactive Programming is available
in All Good Languages**

In computing, **reactive programming** is an asynchronous **programming** paradigm oriented around data streams and the propagation of change.

Reactive programming - Wikipedia

https://en.wikipedia.org/wiki/Reactive_programming





```
combineLatest((x, y) => "" + x + y)
```





MENU

More documents in Java APIs

Reactive Programming with JDK 9 Flow API

Created by Rahul_Srivastava-Oracle on 26-Sep-2016 06:24. Last modified by Bob Rhubart-Oracle on 26-Sep-2016 14:03.

Reactive programming is about processing an asynchronous stream of data items, where applicat example using the JDK 9 Flow API.

By Rahul Srivastava

What is Reactive Programming ?

Reactive programming is about processing an asynchronous stream of data items, where applicat data items occurring over time. This model is more memorv efficient because the data is processec

RXJava2 by Example

| Posted by Victor Grazi on Feb 13, 2017. Estimated reading time: 16 minutes | Discuss

Share + | | | | | |

Key Takeaways

- Reactive programming is a specification for dealing with asynchronous streams of data
- Reactive provides tools for transforming and combining streams and for managing flow-control
- Marble diagrams provide an interactive canvas for visualizing reactive constructs
- Resembles Java Streams API but the resemblance is purely superficial

ReactiveX / RxJava

<> Code | ! Issues 43 | Pull requests 0 | Projects 0 | Wiki | Pulse | Gra

Home

David Gross edited this page on Jan 12, 2015 · 95 revisions

RxJava is a Java VM implementation of [ReactiveX \(Reactive Extensions\)](#): a library for composing asynchronous and event-based programs by using observable sequences.

For more information about ReactiveX, see the [Introduction to ReactiveX](#) page.

ENGINEERING

Understanding Reactive types

ENGINEERING | SÉBASTIEN DELEUZE | APRIL 19, 2016 | 2 COMMENTS

Following previous [Reactive Spring](#) and [Reactor Core 3.0](#) blog posts, I would like to Reactive types are useful and how they compare to other asynchronous types, base we have learned while working on the Spring Framework 5 upcoming Reactive supp

Why using Reactive types?

Reactive types are not intended to allow you to process your requests or data faster

All Posts

RebelLabs

ZeroTurnaround

Android

Virtual JUG

RxJava for easy concurrency and backpressure

December 19, 2016 | Anton Arhipov | 2 Comments

Tweet | Like 19 | Share 41 | G+1 4

RxJava is growing in popularity in Android application development also very capable for server-side apps. RxJava makes concurrency though a seasoned Java developer would have to re-learn the con

RxJava 2.0 - Tutorial

Lars Vogel, Simon Scholz (c) 2017 vogella GmbH – Ver

Table of Contents

1. Using reactive programming with RxJava 2.0
2. Creating sources to observe
3. Caching values of completed observables
4. Conversion between types
5. RxAndroid
6. Exercise: First steps with RxJava and RxAndroid
7. Testing RxJava Observables and Subscriptions
8. About this website
9. RxJava resources
- Appendix A: Copyright and License

Step 4: Code



```
Observable.fromIterable(words)
    .flatMap(word -> fromArray(word.split("")))
    .zipWith(range(1, Integer.MAX_VALUE),
        (str, count) -> format("%2d. %s", count, str))
    .subscribe(System.out::println);
```

```
static String filterMessagesForMoods(String s) {  
    return Stream.of(s)  
        .map(MoodService::getTweetMessageFrom)  
        .flatMap(s1 -> Stream.of(splitMessageIntoWords(s1)))  
        .map(String::toLowerCase)  
        .map(MoodAnalyser::getMood)  
        .filter(Optional::isPresent)  
        .distinct()  
        .map(mood -> mood.get().name())  
        .collect(Collectors.joining(", "));  
}
```

```
static void filterMessagesForMoods(Publisher<String> stringPublisher,  
                                   Subscriber<String> stringSubscriber) {  
    fromPublisher(stringPublisher)  
        .map(MoodService::getTweetMessageFrom)  
        .flatMap(s1 -> fromArray(splitMessageIntoWords(s1)), maxConcurrency: 1)  
        .map(String::toLowerCase)  
        .map(MoodAnalyser::getMood)  
        .filter(Optional::isPresent)  
        .map(mood -> mood.get().name())  
        .subscribe(stringSubscriber);  
}
```


static String filterMessagesForMoods(String s) {	» 20	26
return Stream.of(s)	21	27
.map(MoodService::getTweetMessageFrom)	⬆ 22	28
.flatMap(s1 -> Stream.of(splitMessage1	⬆ 23	29 ⬆
.map(String::toLowerCase)	⬆ 24	30 ⬆
.map(MoodAnalyser::getMood)	⬆ 25	31 ⬆
.filter(Optional::isPresent)	⬆ 26	32 ⬆
.distinct()	» 27	33 ⬆
.map(mood -> mood.get().name())	⬆ 28	34 ⬆
.collect(Collectors.joining(", "));	» 29	35
}	30	36

static void filterMessagesForMoods(Publisher<String> stringPublisher,
Subscriber<String> stringSubscriber) {
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.filter(Optional::isPresent)	⬆ 26	32 ⬆
.distinct()	» 27	33 ⬆
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}	30	36

static void filterMessagesForMoods(Publisher<String> stringPublisher,
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.map(String::toLowerCase)
.map(MoodAnalyser::getMood)
.filter(Optional::isPresent)
.map(mood -> mood.get().name())
.subscribe(stringSubscriber);
}

[All Posts](#)[RebelLabs](#)[ZeroTurnaround](#)[Android](#)[Virtual JUG](#)

RxJava for easy concurrency and backpressure



December 19, 2016



[Anton Arhipov](#)



[2 Comments](#)



Tweet



Like 19



Share

41

G+1

4

RxJava is growing in popularity in Android application development. However, it is also very capable for server-side apps. RxJava makes concurrency easier even though a seasoned Java developer would have to re-learn the concepts to

How to limit the concurrency of flatMap?



4



2

I'm trying to use RxJS to write a script to process several hundreds of log files, each of which is about 1GB. The skeleton of the script looks like

```
Rx.Observable.from(arrayOfLogFilePath)
  .flatMap(function(logFilePath){
    return Rx.Node.fromReadStream(logFilePath)
      .filter(filterLogLine)
  })
  .groupBy(someGroupingFunc)
  .map(someFurtherProcessing)
  .subscribe(...)
```

The code works, but notice that the filtering step of all log files will start concurrently. However, from file system IO performance perspective, it is preferable to process one file after another (or at least

▼	OK	Test Results	322ms
▼	OK	MoodServiceTest	322ms
	OK	should correctly identify happy messages that are not lower case	264ms
	OK	should correctly identify mixed messages with multiple moods	8ms
	OK	should not have any mood for messages that are neither happy or sad	5ms
	OK	should correctly identify happy messages	12ms
	OK	should correctly identify mixed messages	17ms
	OK	should correctly identify sad messages	16ms

Step 5: Update CV





Search

Home

My Network

Jobs

Messaging

Notifications

Me

Work

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Featured Skills & Endorsements

Add a new skill

Add new profile section

Java

Endorsed by Peter Lowrey and 24 others who are highly skilled at this

Endorsed by 5 of Trisha's colleagues at MongoDB

MongoDB

Continuous Integr...

Trisha is also good at

Software Develop...

MySQL

Agile Project Man...

Scrum

Design Patterns

JavaScript

Continuous Delive...

Art

API Development

Community

Add Skill



React



React

Polymerase Chain Reaction (PCR)

Real-Time Polymerase Chain Reaction (qPCR)

Reverse Transcription Polymerase Chain Reaction (RT-PCR)

React.js

Reactor

Reaction Engineering

Yes



Share profile changes

If enabled, your network may see this change.

Add

In Summary



Step 1: Awareness

Find Zen in Surfing the Tsunami

Where?

- Twitter
- Newsletters
- User Groups
- Blogs & Tutorials

Step 2: Speaking the Lingo

“Wouldn’t a Reactive approach solve that problem?”

Step 3: Enough Knowledge to be Dangerous

Guideline: Enough to blag your way through a conversation in the pub

Where?

- Twitter
- Newsletters
- User Groups
- Blogs & Tutorials
- Online courses
- Conferences

Step 4: Code!

Remember: You must complete Steps
1-3 first

Where?

- Twitter
- Newsletters
- User Groups
- Blogs & Tutorials
- Online courses
- Conferences
- Books
- StackOverflow

How?

- Pet project
- Join an open source project
- Find a project at work

Step 5: Update CV

Or LinkedIn

Machine Learning	Security	Scalability	Design Patterns	TensorFlow
Go	HTML5	AngularJS	Git	TDD
Big Data	Cloud	Microservices	Performance	NoSQL
Reactive	Serverless	Blockchain	Resilience	Distributed Systems
RxJava	Reactor	React	Kotlin	Agile



<http://bit.ly/buzz-pc>