

Queue it!

What job queues can do for you!

International PHP Conference 2014 - October 27th 2014 - Munich, GER



Ole Michaelis

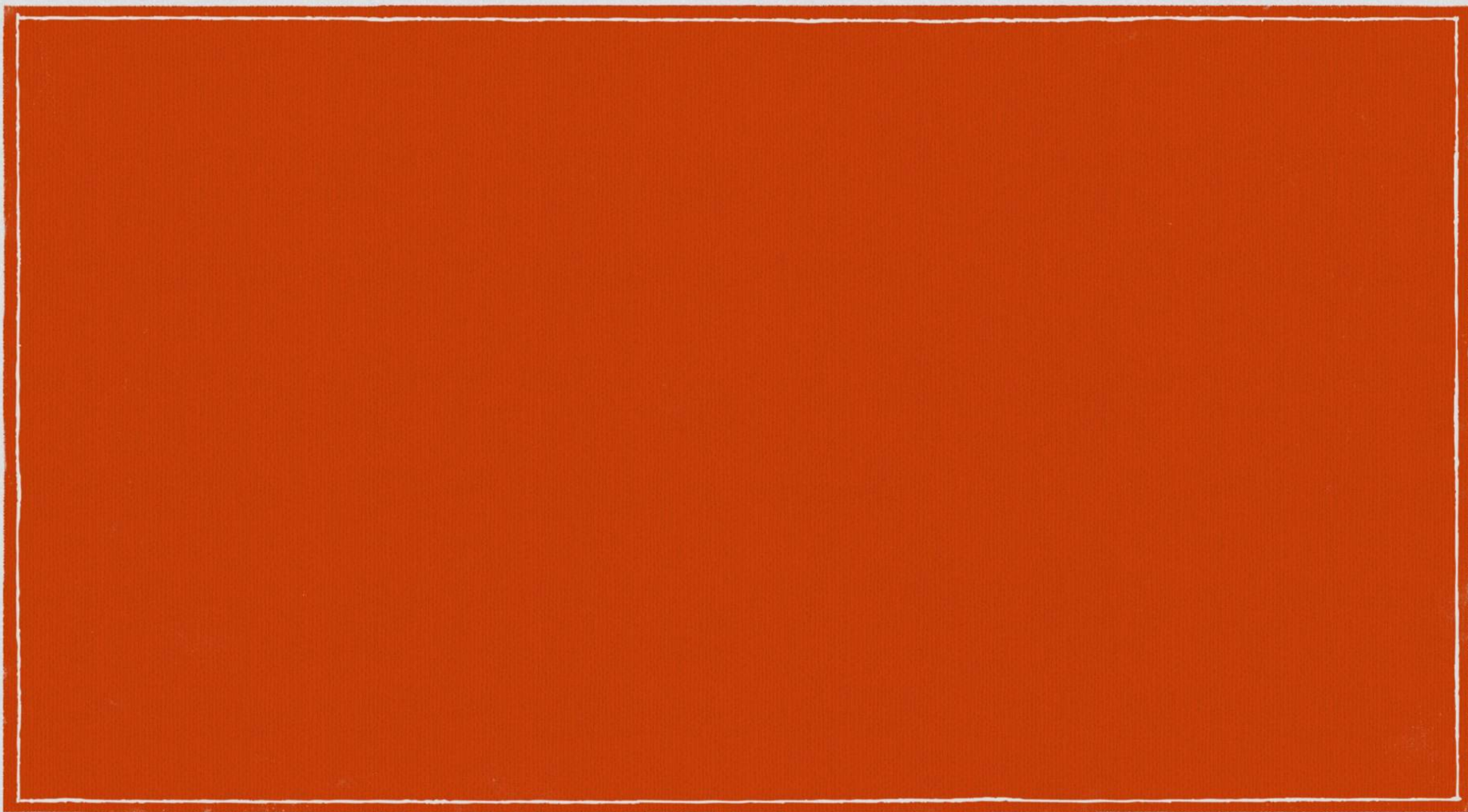
@CodeStars // codestars.eu // slidr.io // So Coded Conference

Jimdo



Do You Queue?

you do, you just may not know



The Problem!

computers are slow

User

Webserver

External Service



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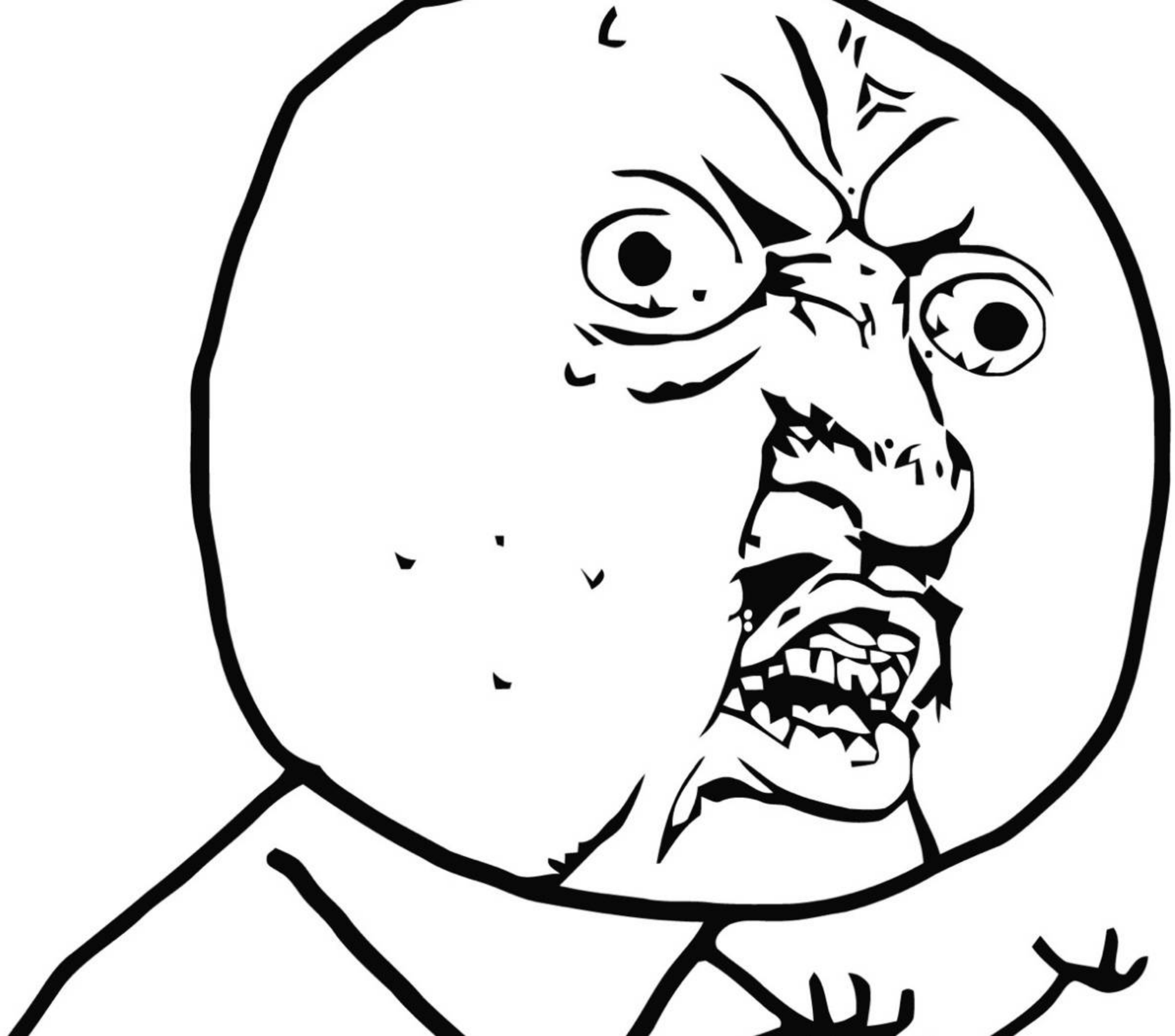
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Queues To The Rescue!

yay people

do it async

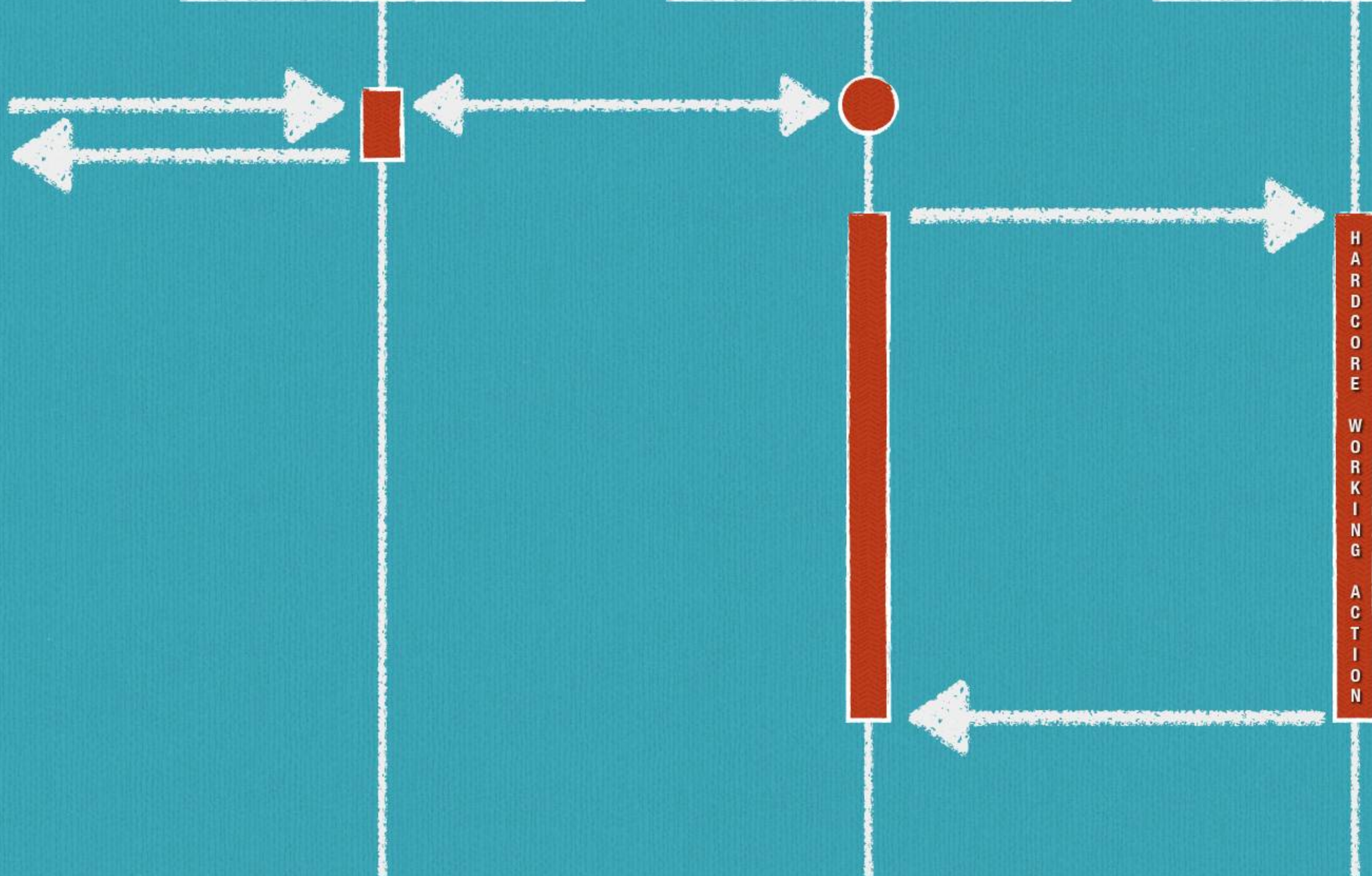
User



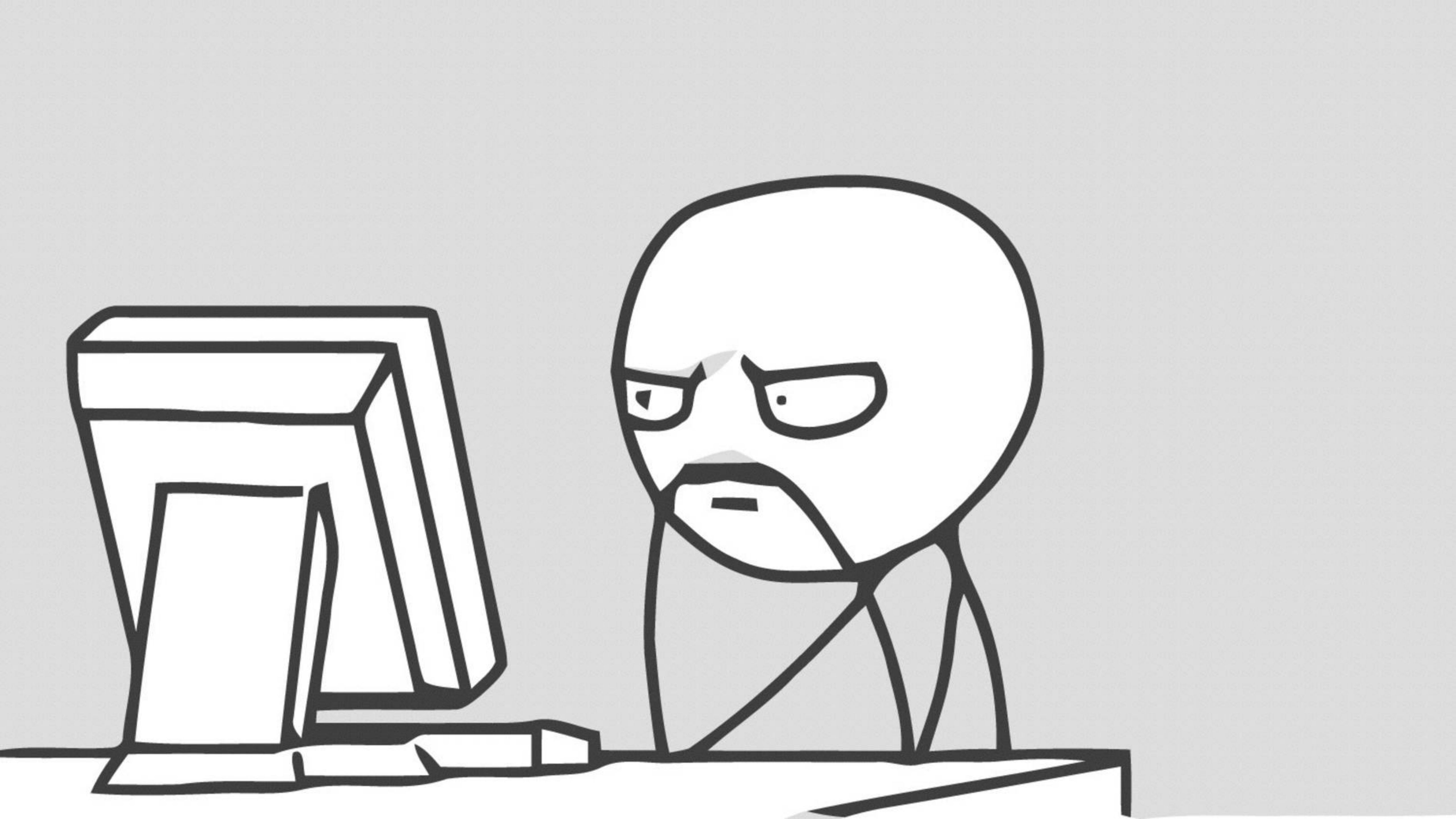
Webserver

Queue / Worker

External Service







it's easy

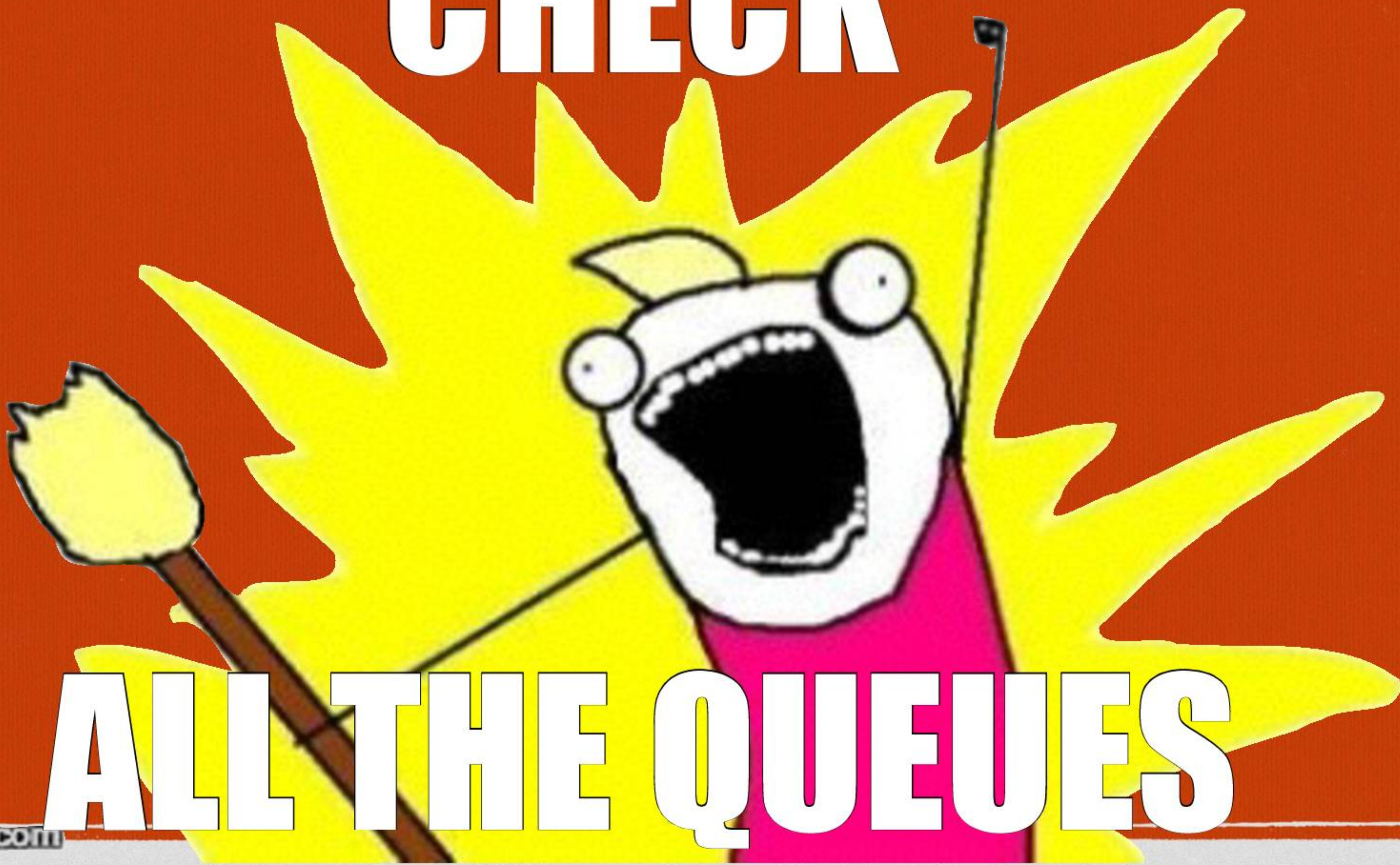



```
λ simple-queue █
```




**don't
try
this
at
home**

CHECK



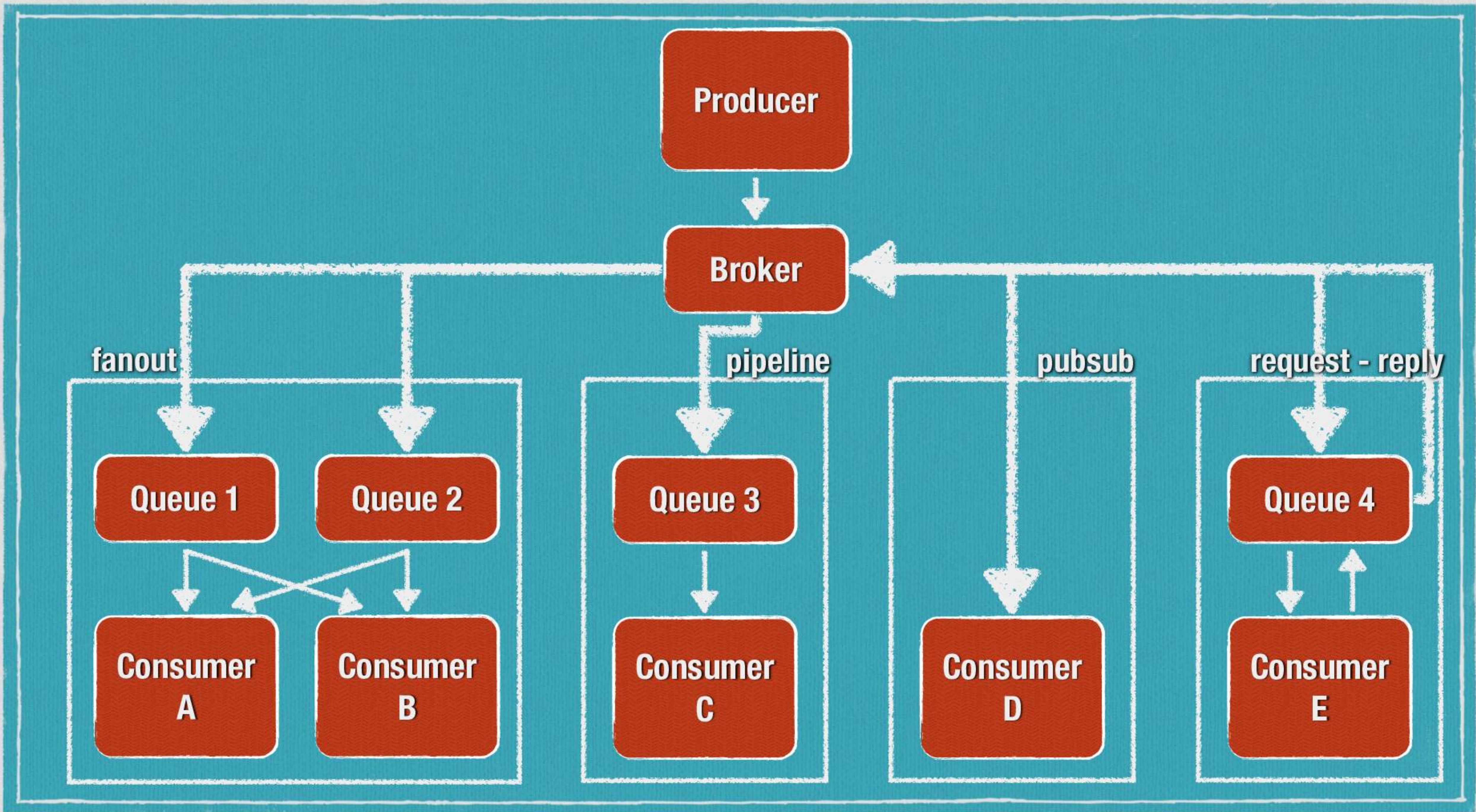
ALL THE QUEUES

Message Queues

anatomies of a queue



queue strategies



feature check

message distribution

broadcasting

Job Queues

designed for jobs

feature check

persistence

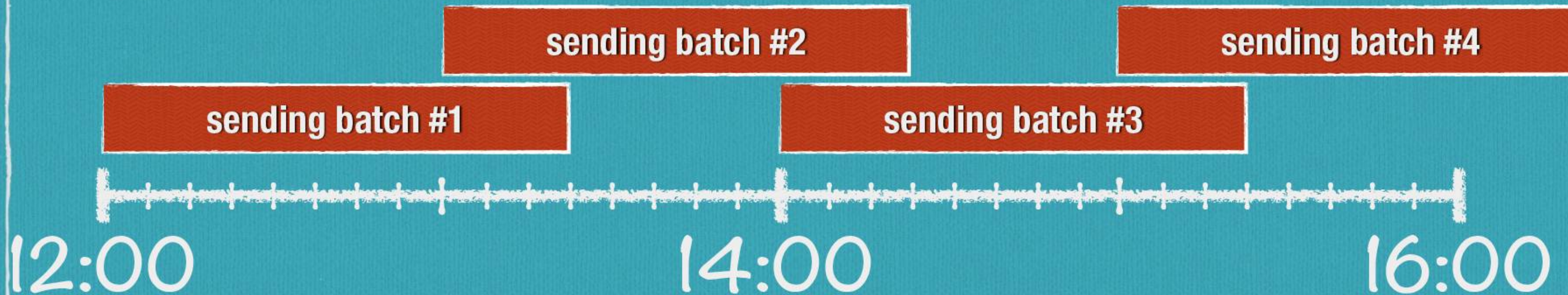
priorities

priorities



timing

timing - job delay



What Queue Should I Use?

**USE WHATEVER
MAKES
FUCKING SENSE!**

But Can't See a Few



allrounders

SaaS

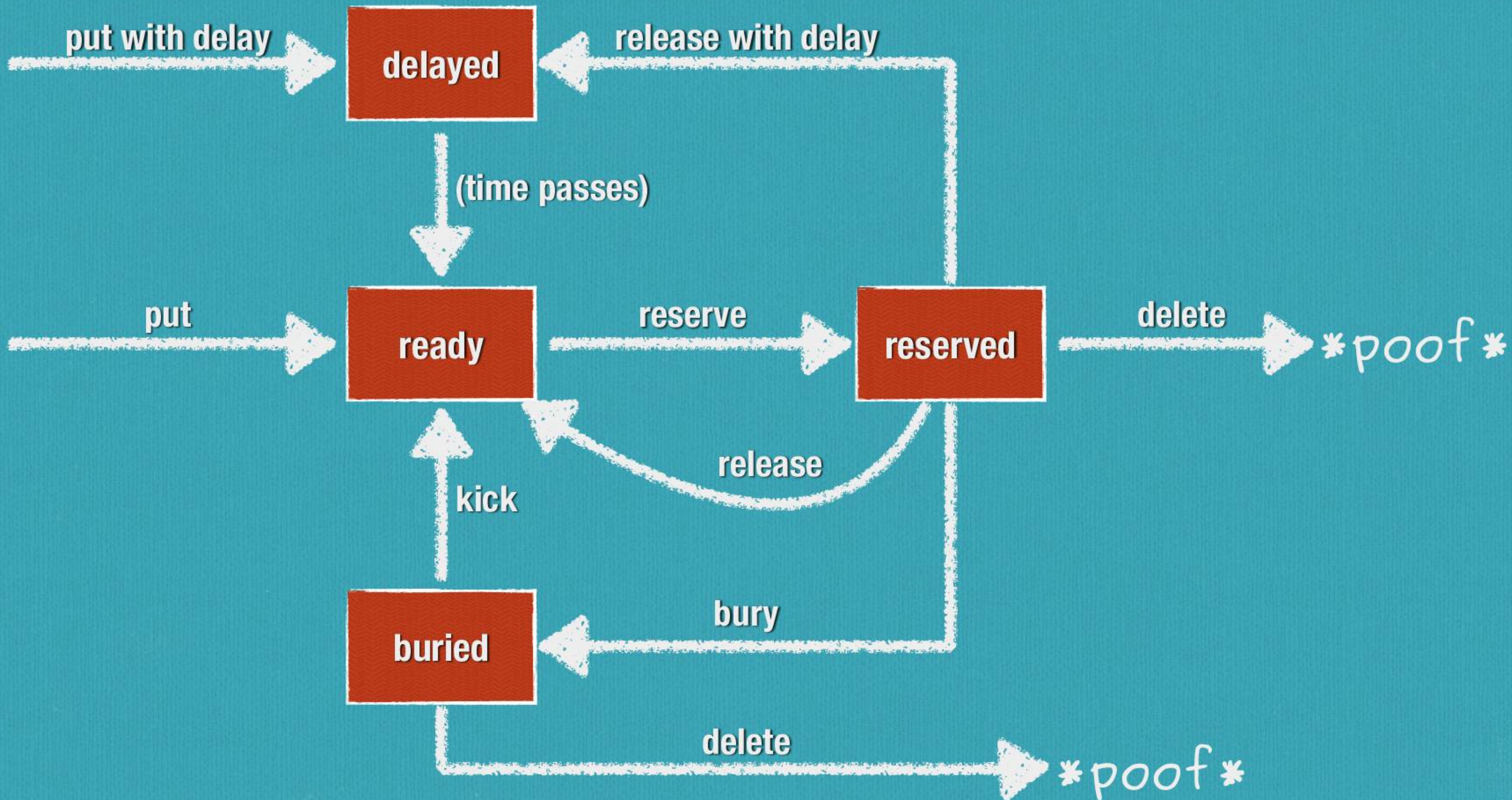
no queues

job queues

beanstalkd

(mostly general) implementation best practices





jobs will fail

you should retry



jobs will fail often

use timing for retries



don't retry infinite

count your retries

3



jobs can't be done

separate them



DEAD LETTER QUEUE



fanout & prioritize

scale workers effectively

42 42 28 28 17 17 14



watch your queue

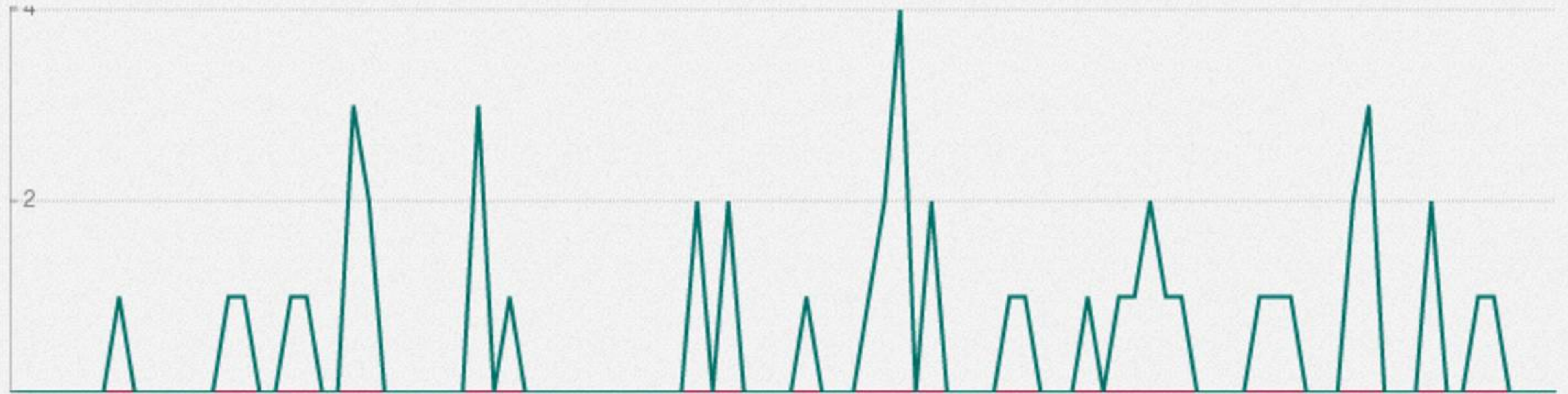
monitor and measure what is going on

Status  idle

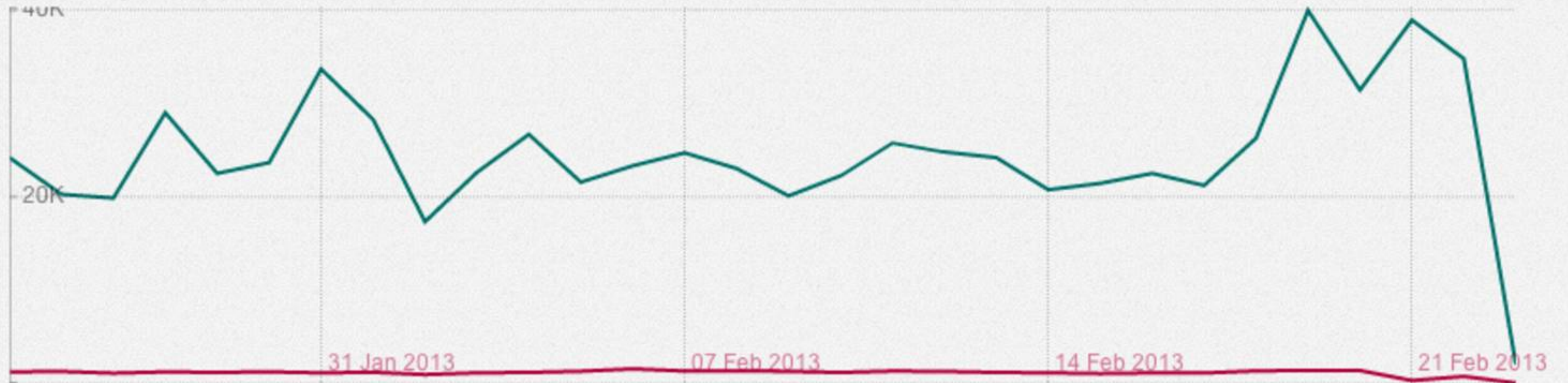
Dashboard

Processed	4,846,522
Failed	170,661
Busy	1
Scheduled	12
Retries	433
Enqueued	0

Real-time



History [1 week](#) **[1 month](#)** [3 month](#) [6 month](#)



Beanstalk console

stable 1.6.1

downloads 3.03 k

license MIT

Admin console for *Beanstalk* queue server, written in PHP

Beanstalk console

localhost:11300 ▾

All tubes ▾

Toolbox ▾

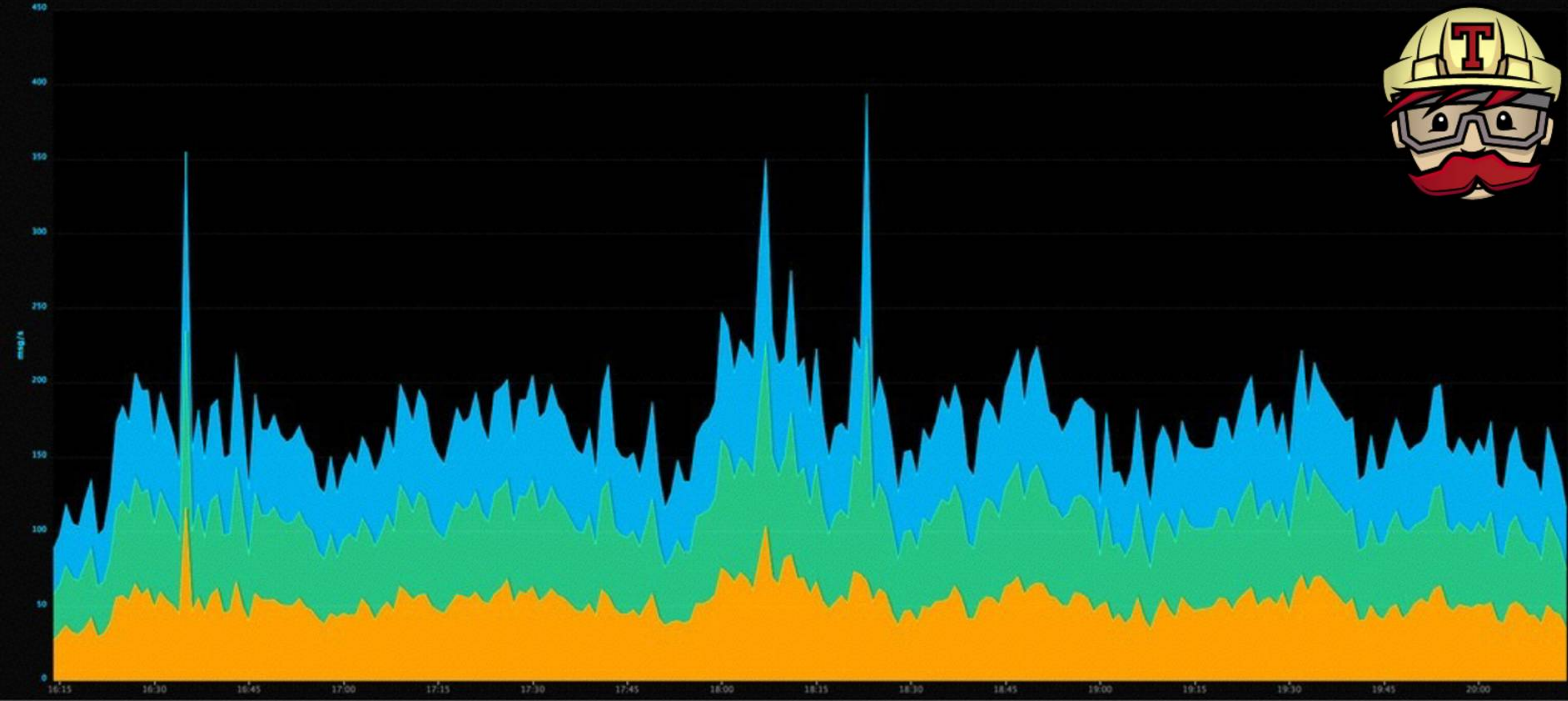
Links ▾



name	current-jobs-urgent	current-jobs-ready	current-jobs-reserved	current-jobs-delayed	current-jobs-buried	total-jobs
default	0	0	0	0	0	0
tube_download	1	1	0	0	0	1
tube_email	5	5	0	0	0	5

RabbitMQ Throughput

APR 19, 13 04:14 PM - APR 19, 13 08:14 PM



Yay or Nay?

Thank You



Let's Talk

or just ping me later @codestars or ole@jimdo.com



continuous reading

- <http://blog.thecodepath.com/2013/01/06/asynchronous-processing-in-web-applications-part-2-developers-need-to-understand-message-queues/>
- Mathias Meyer - Message Queues - Railsberry 2013 <https://vimeo.com/68698333>
- <https://github.com/kr/beanstalkd>
- <https://github.com/dp-opensource/pheanstalk>
- https://en.wikipedia.org/wiki/Message_queue
- https://github.com/denniskuczynski/beanstalkd_view
- <https://github.com/twitter/kestrel>
- <https://github.com/kr/beanstalkd/blob/master/doc/protocol.txt>

Products / Name dropping

activemq

rabbitmq

Ømq (zeromq)

zookeeper

pubnub

ironmq

sqz

sidekiq

resque

kue

gearman

beanstalkd

kestrel

kafka

delayed_job

celery

qlless

mqseries

nsq

jms

qpuid

hornetq

swiftmq

mqseries

stormmq

dotnetmq

snakemq

dropr

AND ALWAYS REMEMBER:



SAYS

