



PLEASE STAND BY

Blueflood 2.0 and Beyond

@gdusbabek • Berlin Buzzwords 2014 • Rackspace

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```
$ cat CHANGES.txt | grep AWESOME
```

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Outline

- ① Current state of Blueflood
- ② State and potential of the metrics community
- ③ How you can get involved in Blueflood
- ④ Beyond!!! 11

①

Current State

March 2013 – Decide to release

August 2013 – Actually released

Working hard in the mean time.



Lesson:
**Open source
project is best
started open**



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**Open source
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started open**

A row of small, light-colored bowls, possibly containing a beverage, is arranged on a wooden tray. The background is dark and warm, suggesting an indoor setting with low lighting. The text is overlaid in a bright green color.

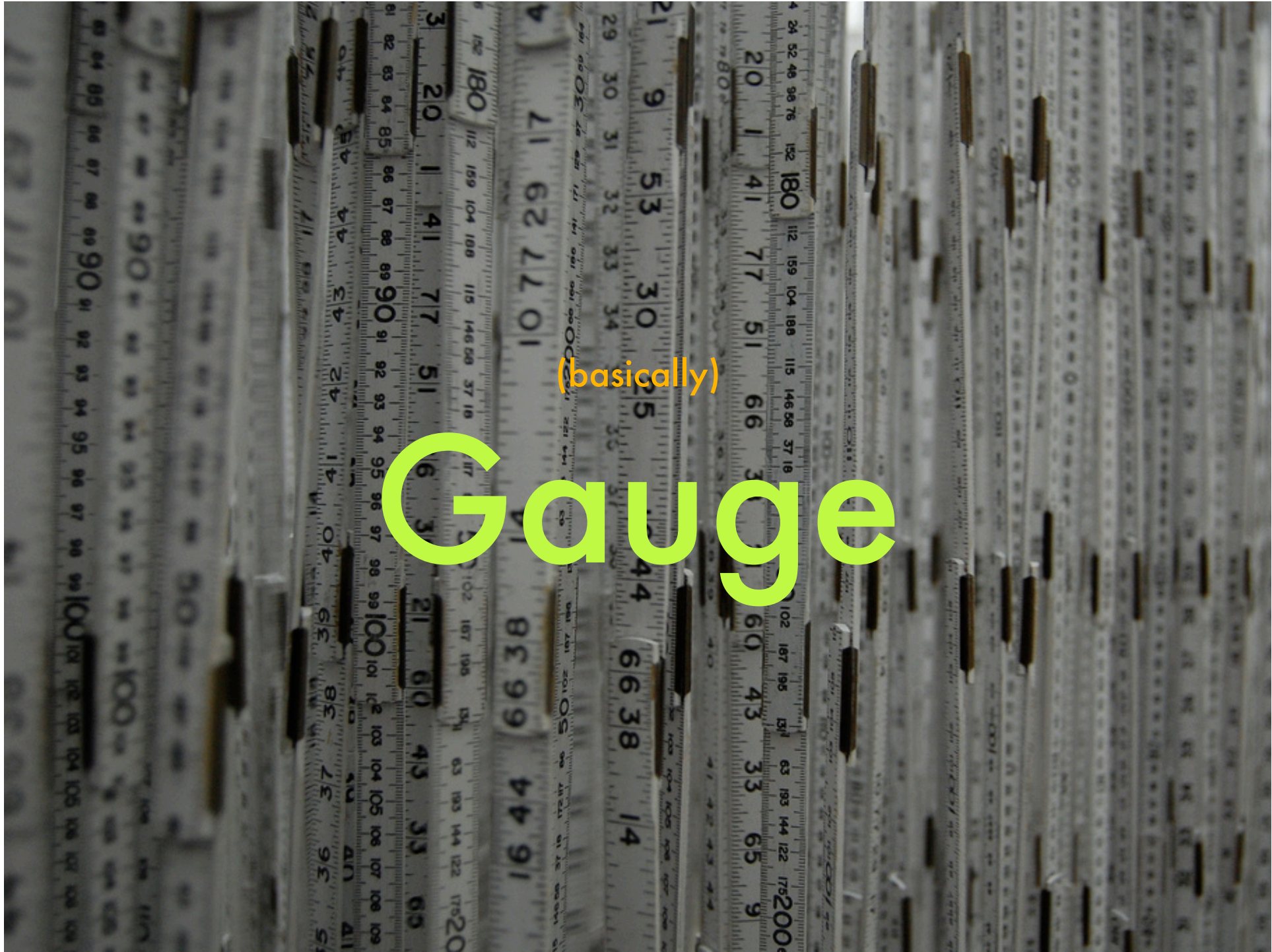
Old:
Ingesting 15k
points per
second

New:
Ingesting 30k
points per
second*

Higher Loads Tested



New Features



(basically)

Gauge

Gauge
Counter
Timer
Set

Export Rollups to External Systems



**Index metrics
on ingest**

**Index metrics
on ingest**


**Index metrics
on ingest**



**Performance:
Batch
Operations**



Cassandra Storage Improvements



Cassandra Storage Improvements

Improved Blueflood API



**Better
Multi-tenant
Experience**



Better Multi-tenant Experience

Great progress,

Right?

Blueflood is
a young
project







AWKWARD!

A young man with short, light brown hair is smiling and standing in front of a white wall with horizontal siding. He is wearing a light blue short-sleeved shirt with a tropical pattern of green leaves and colorful birds, a white necktie, and white pants with a teal belt. The word "IMMATURE" is overlaid in large, bold, yellow capital letters across the center of the image.

IMMATURE

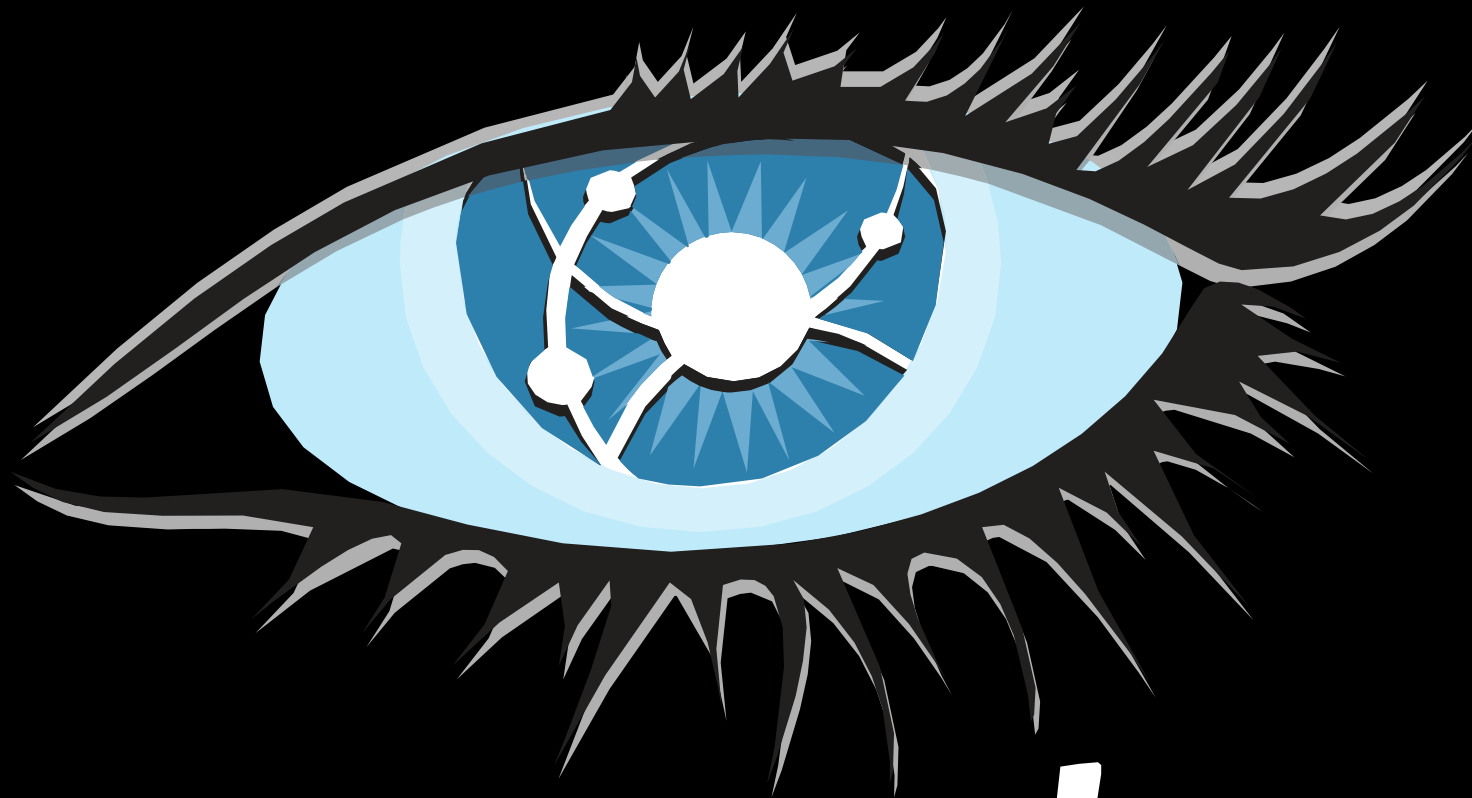
Software



Matures too



Java



cassandra

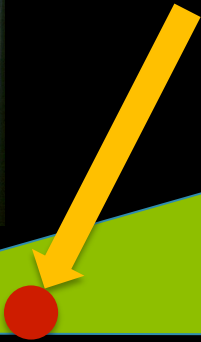


Blueblood Maturity





We are here



**HELP
WANTED
APPLY
WITHIN**

*Will
Train*

*Part
Time*

②

Potential of the
metrics
ecosystem



Just
getting
started

Expected Future

vs

Actual Future



1MM pts
per second
per node

Not That Far Away



③

Act Now!

Documentation





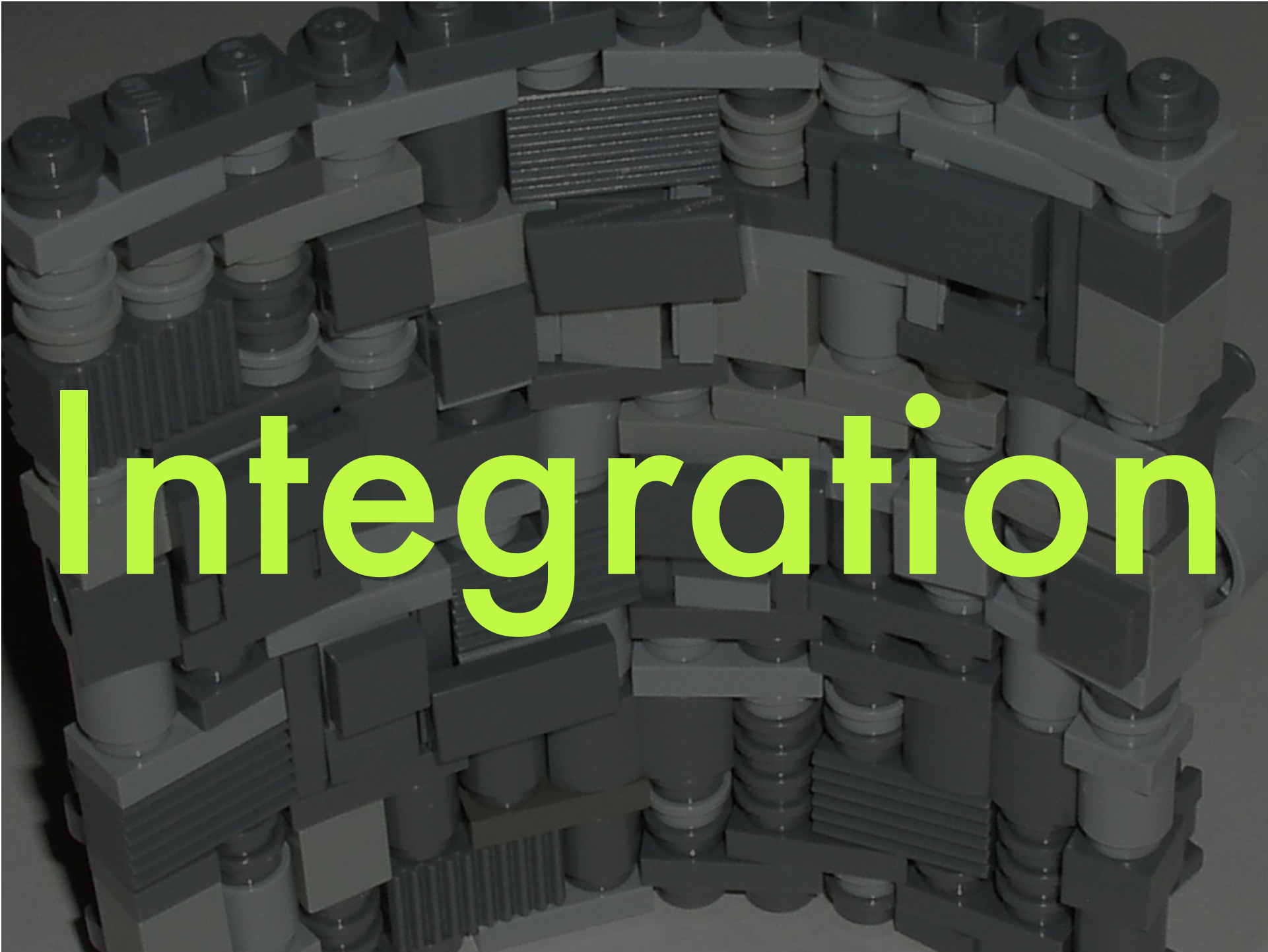
Give
Bluefood
a Try

Contribute
Code



Enhance

the Tools

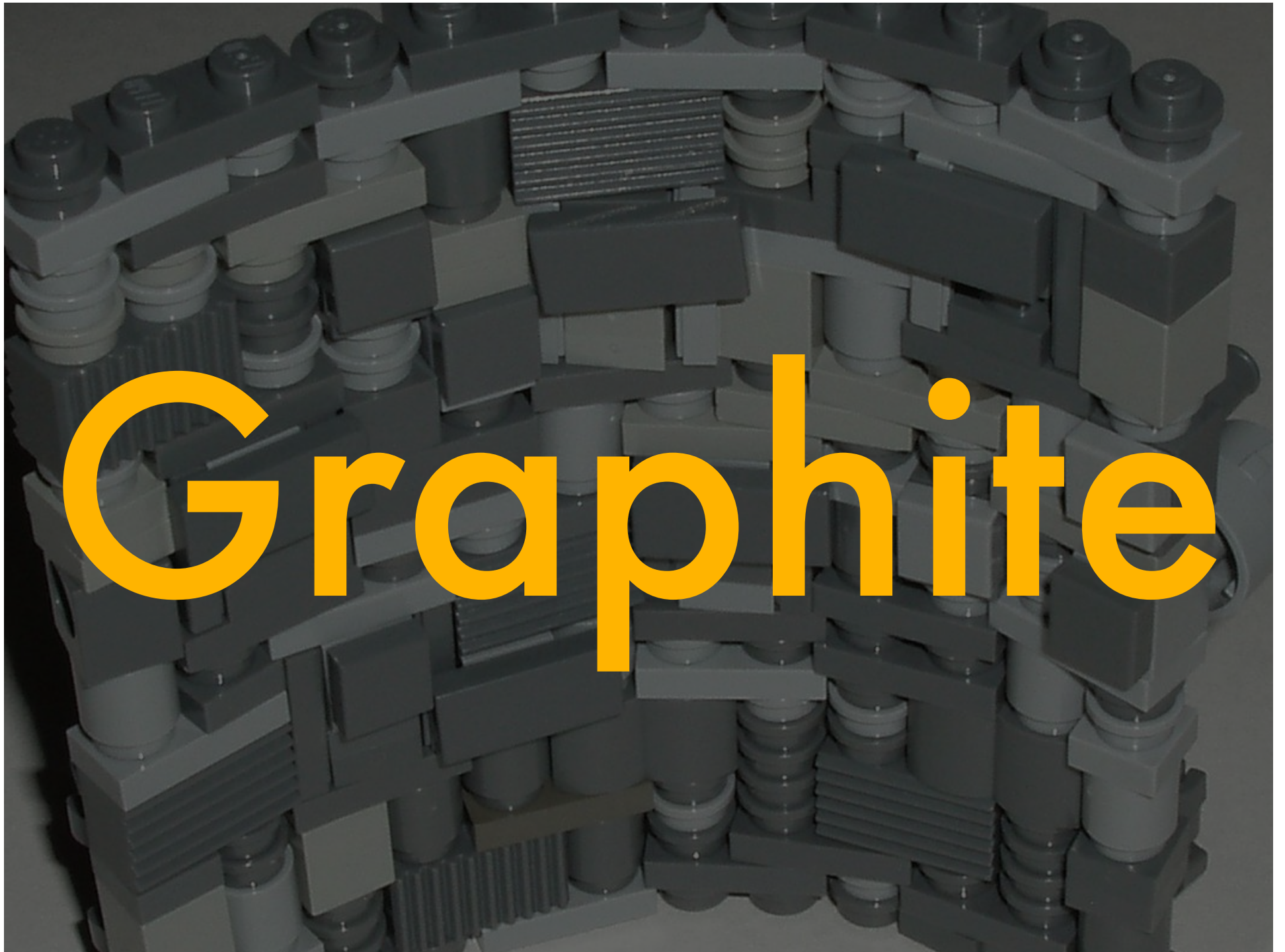


Integration



statsD

github.com/gdusbabek/blueflood-statsd-backend



Graphite

DEMONSTRATION

https://github.com/gdusbabek/blueflood/tree/graphite_integration

https://github.com/gdusbabek/blueflood/tree/lucene_discovery

https://github.com/gdusbabek/graphite-web/tree/blueflood_graphite



④

If We
Succeeded...



Community



Easy Installation



**No
Bottlenecks**



**Better
Technology**

Barriers to Success

A photograph of two glass bottles against a solid blue background. The bottle on the left is taller and has a long neck, while the one on the right is shorter and wider. Both bottles appear to be made of clear or light-colored glass. The text 'Bottlenecks' is overlaid in a large, bold, black font across the bottom half of the image.

Bottlenecks

**Immaturity of
metrics space**

Non- technical Problems



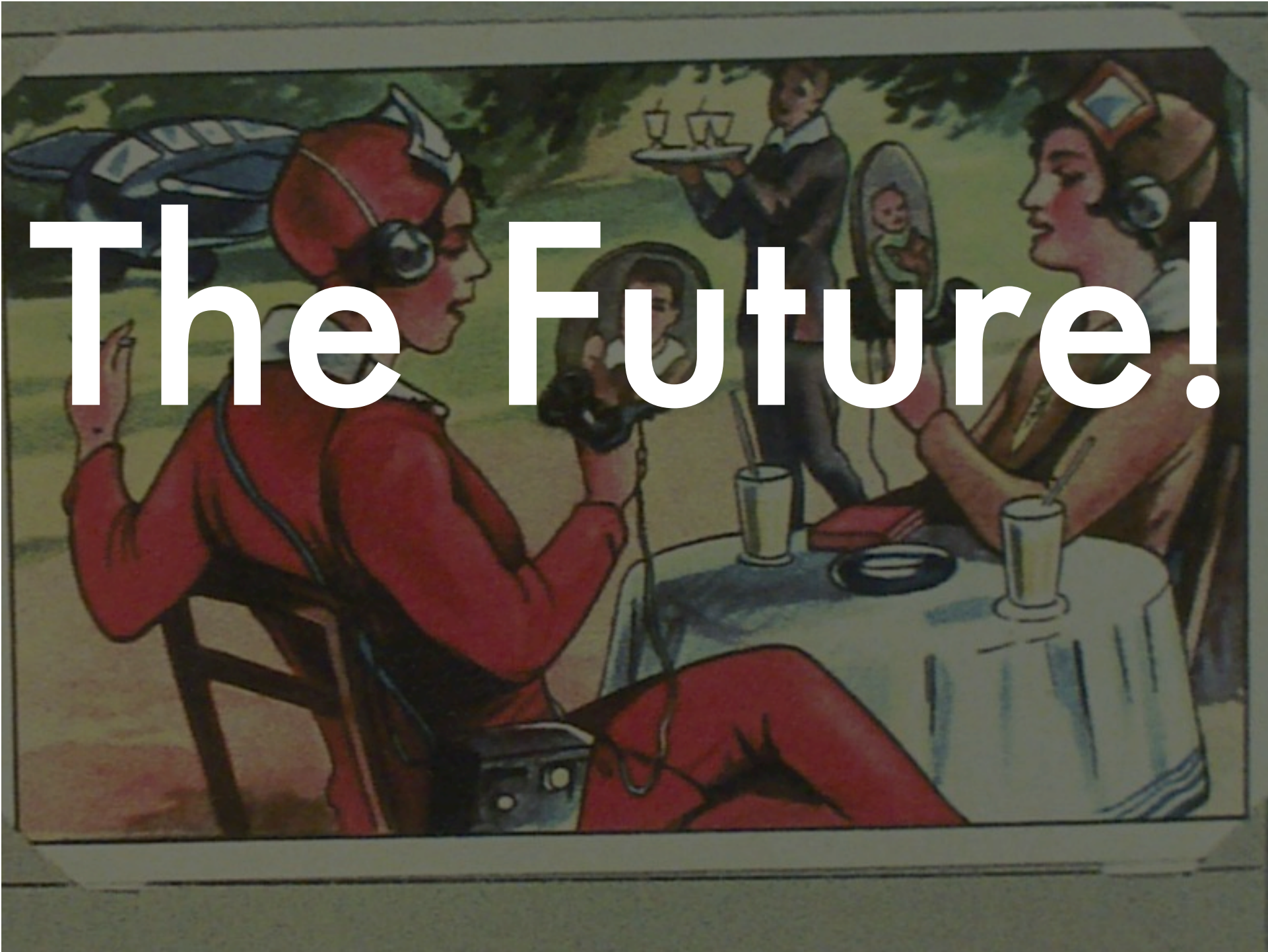
**Where do
we go
next?**



**Where do
we go
next?**

Start

Helping



The Future!

**Native
Distributed
Time Series
Data Store**

Common APIs



Time Series Community

More Time Series:

**Tue 11:30 – Time Series Data
With Apache Cassandra**

More Cassandra:

**Tue 16:10 – Data Modeling in
the New World**

@gdusbabek



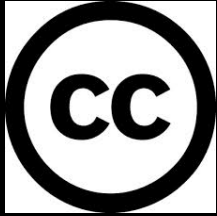


Image Credits

<https://creativecommons.org/licenses/by/2.0/>

outline	https://www.flickr.com/photos/zen/3978223
class	https://www.flickr.com/photos/22326055@N06/4264216476
funnels	https://www.flickr.com/photos/7603557@N08/9630569058
loads	https://www.flickr.com/photos/carsten_tb/7326580242
gauges	https://www.flickr.com/photos/antonymayfield/3221166562
train	https://www.flickr.com/photos/trains_in_tasmania/11214831086
cookies	https://www.flickr.com/photos/rhinoneal/5633001128
drawers	https://www.flickr.com/photos/inesplicabile/2093653233
apartments	https://www.flickr.com/photos/tracerbullet999/3722416917
plants	https://www.flickr.com/photos/br1dotcom/3251911748
meat	https://www.flickr.com/photos/splorp/12200621
help	https://www.flickr.com/photos/carianoff/4153837365
dogs	https://www.flickr.com/photos/81509206@N00/466440988
future	https://www.flickr.com/photos/perhapstoopink/4434966765
bottles	https://www.flickr.com/photos/temily/5521871004
ape	https://www.flickr.com/photos/tambako/8164835802
books	https://www.flickr.com/photos/azrasta/5088254388
tools	https://www.flickr.com/photos/katerha/5746905652
legos	https://www.flickr.com/photos/paul_garland/2510703886
thinker	https://www.flickr.com/photos/seatbelt67/502255276
map	https://www.flickr.com/photos/80497449@N04/8280699806
birds	https://www.flickr.com/photos/infomastern/12020409446
thanks	https://www.flickr.com/photos/psd/2086641