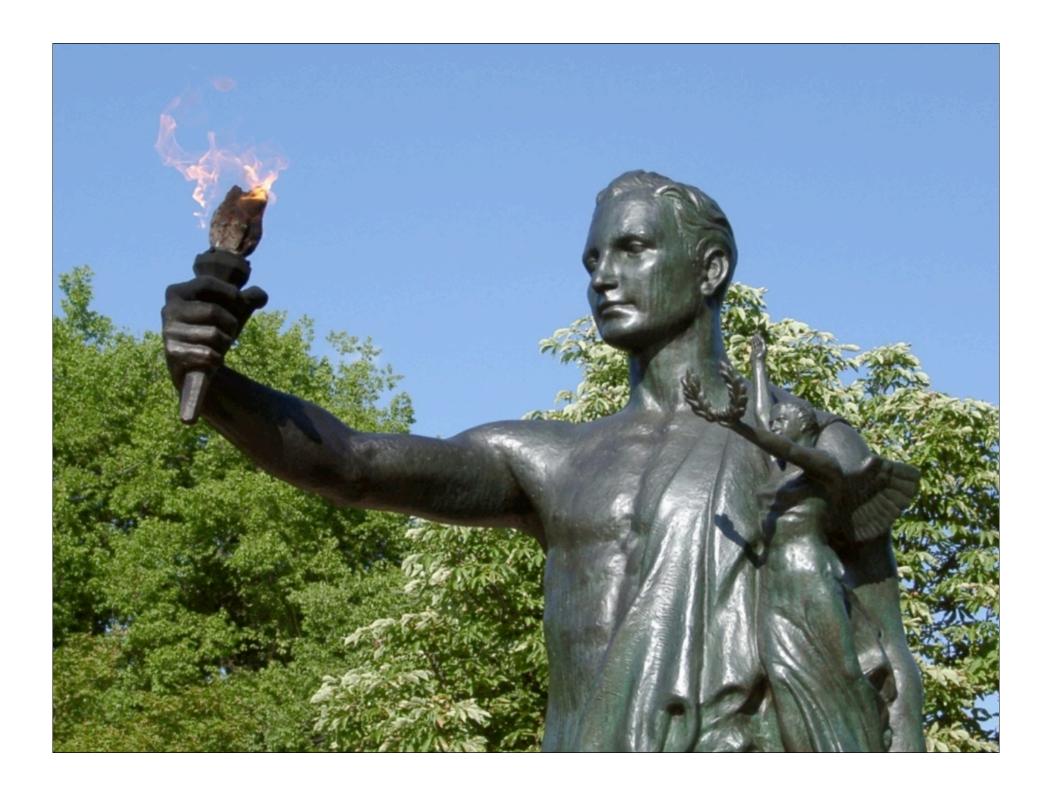
Eventing Data with RabbitMQ and Riak

Jon Brisbin
jon@jbrisbin.com - @j brisbin



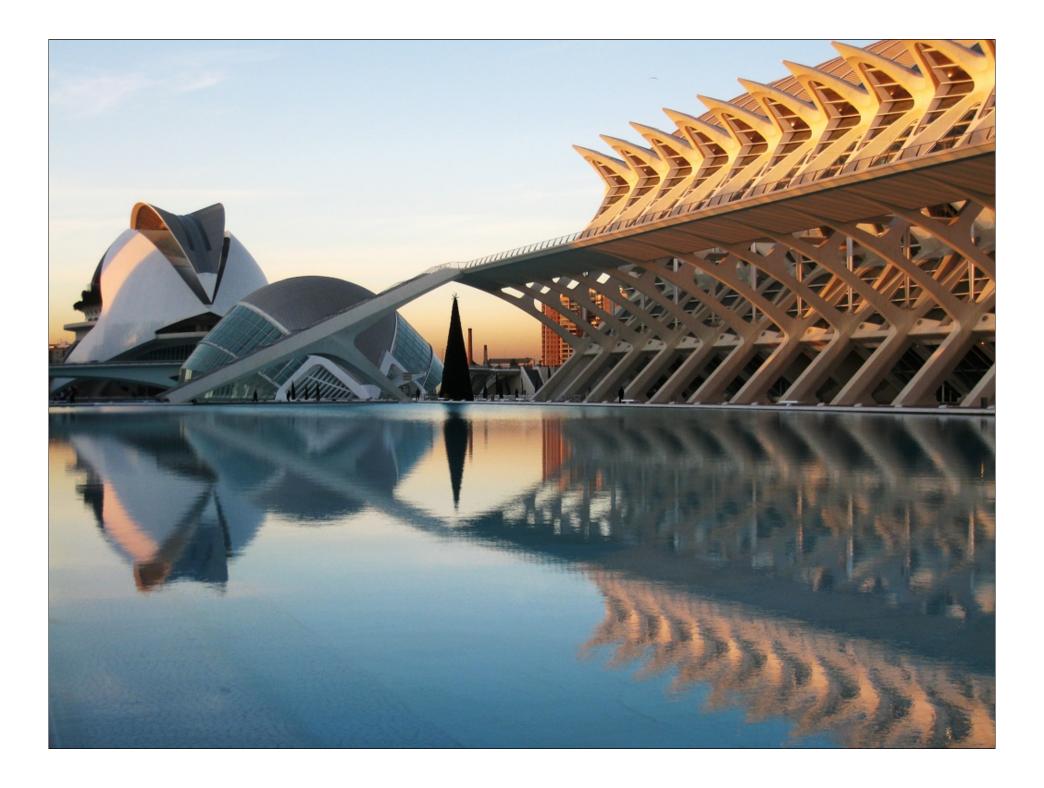
Evented Data is a reflection of different aspects of a single application.

What is Data, then?

cono	flno	flda8
	3877	20110609
	468	20110822



```
\mathbb{L}\{
  "company_number": 1,
  "flight_number": 3877,
  "flight_date": 20110609
  "company_number": 1,
  "flight_number": 468,
  "flight_date": 20110822
```



PUT /services/flightinfo Content-Type: text/plain

1,3877,20110609 1,468,20110822

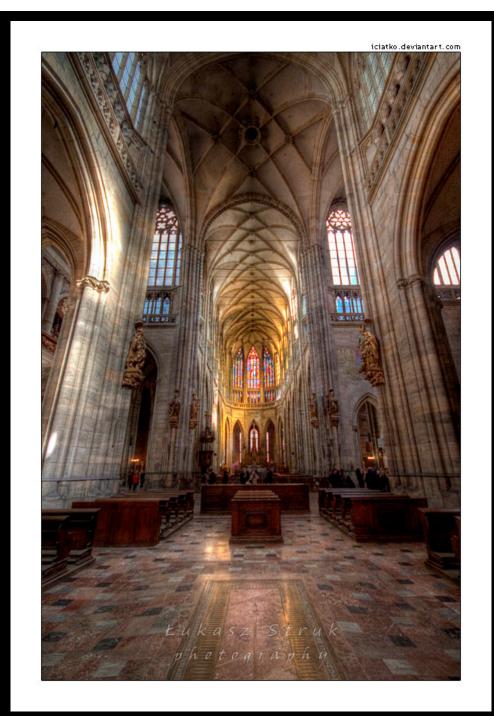
```
Exchange: flight
Routing-Key: info
X-Meta-Company: 1
Content-Type: application/json
  [3877, 20110609],
  [468, 20110822]
```

The only important pieces of data are...

```
[

[3877,20110609],

[468,20110822]
```



Where the data is stored doesn't really matter...

...nor does the language used to extract it...

...nor does the language of the server in which it is stored.

The only thing that matters is THE DATA.

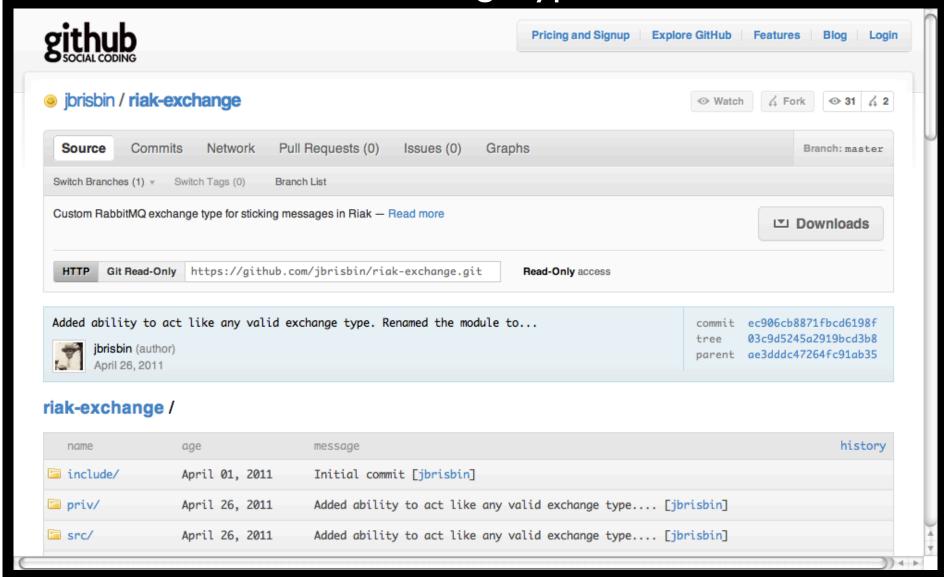
It is the Alpha and the Omega of the project.





The RabbitMQ Side

Custom exchange type "x-riak"



The RabbitMQ Side

Custom exchange type "x-riak"

Arguments:

```
host = "localhost"
port = 8087
type-module = "..._topic"
maxclients = 5
```

The RabbitMQ Side

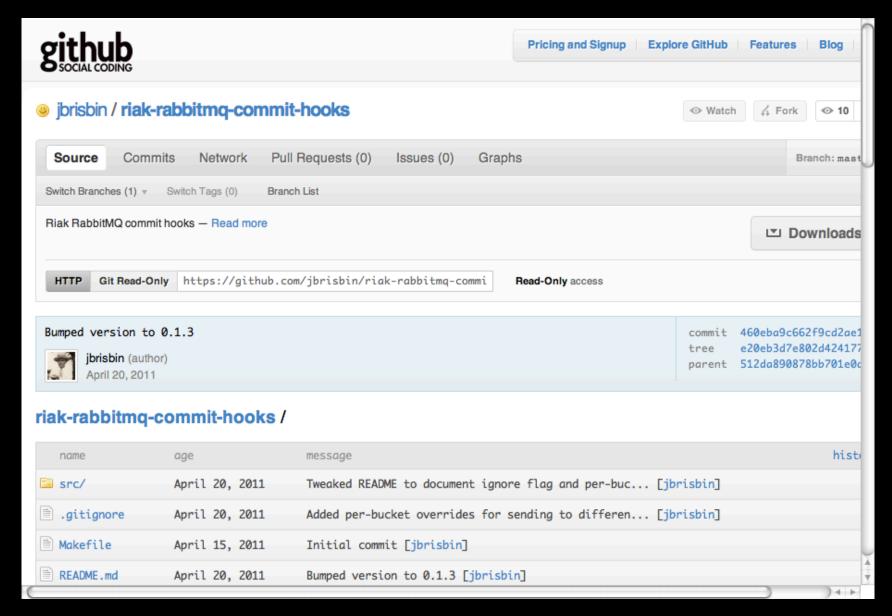
Custom exchange type "x-riak"

Possible type-modules:

rabbit_exchange_type_topic
rabbit_exchange_type_direct
rabbit_exchange_type_fanout
rabbit_exchange_type_headers
mymodule_custom_type_foo

presentation.startDemo();

The Riak Side



The Riak Side

```
PUT /riak/bucket
Content-Type: application/json
 props: {
  postcommit: [
   { mod: "riak_rabbitmq",
     fun: "postcommit_send_amap" }
```

The Riak Side

Metadata:

```
X-Riak-Meta-Amap-Exchange
X-Riak-Meta-Amap-Routing-Key
X-Riak-Meta-Amap-Host
X-Riak-Meta-Amap-Port
X-Riak-Meta-Amap-Vhost
X-Riak-Meta-Amap-User
X-Riak-Meta-Amap-Password
X-Riak-Meta-Amap-Ignore
```

Store metadata on a special entry named "AMQP-Meta" in that bucket

presentation.startDemo();

http://github.com/jbrisbin

@j_brisbin

jon@jbrisbin.com