Mutliple Datastores: WILL IT BLEND?!

Alex Brandt, Rackspace
POLYGLOT PERSISTENCE
BUZZWORDS

Any decision makers in the house?

Do you have the bandwidth?

Put anything in the cloud?

How much Data is “big”? 

We need someone with 5 years of DEVOPS / UX Experience.
POLYGLOT + PERSISTENCE

“Knowing and using many languages.”

“The continued existence of something despite challenges.”
1. How do you model data?

2. How do you query data?

*** Bonus - Silly Characters! ***
MEET THE FAMILY
1. RELATIONAL

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1. **RELATIONAL**

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1. RELATIONAL

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1. RELATIONAL

“The Obsessive Compulsive”

MYSQL

...ORACLE

...MSSQL
2. KEY VALUE

K:V
2. Key Value
2. KEY VALUE

“The Junkie”

DYNAMO
RIAK
REDIS
3. **Column**

K:V

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## 3. COLUMN

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K:V
3. COLUMN

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<td>V4</td>
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</tbody>
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3. COLUMN

“The Outcast”

CASSANDRA
HBASE
4. DOCUMENT

\{ K:V, K:V, K:V, ... \}  \rightarrow  \{ K:V, K:V, K:V, ... \}  \rightarrow  \ldots  \rightarrow  [ v, v, v, v, ... ]
4. DOCUMENT

“The Librarian”

MONGODB
COUCHDB
5. GRAPH

Node 1

Edge

Node 2
5. Graph
5. Graph

1 → 2 → 3 → 4 → 5
First Name: Alex
Last Name: Brandt
Employer: Rackspace
Height: 5’10”
Secret Skill: Kung Fu
5. Graph

Alex  Brandt  RAX  5’10”  Kung Fu
5. Graph

User

- Alex
- Brandt
- RAX
- 5’10”
- Kung Fu
5. GRAPH

User

Alex

Brandt

RAX

5'10"

Kung Fu
5. GRAPH

“The Hoarder”

NEO4J
COMBINING DATASTORES
A.K.A.
WILL IT BLEND?!?
craigslist

mongoDB + MySQL

ARCHIVING + PRODUCTION
GILT

PostgreSQL + mongoDB / riak

transaction + user data
USER DATA + STRUCTURED DATA
Your data has a format it wants to live in, so listen carefully and it will tell you.

- Kenny Gorman
  Director of Databases,
  ObjectRocket
FORGET THE BUZZWORDS:
RIGHT TOOL, RIGHT JOB
GET BLENDING !!!
Mutiple Datastores: WILL IT BLEND?!  
Alex Brandt, Rackspace