Good Morning.

Good Morning!

Saturday, 5 September 2009

Thank you for inviting me.

Who?

- Jan Lehnardt
- Hacker
- Entrepreneur
- I come from The Web
- Open Source makes me happy

capitalizing words
say we mean it

again!

I am not:

- coming from a telco-background
- a researcher
- an Erlang expert

questionnaire: who is any of these?

?

.

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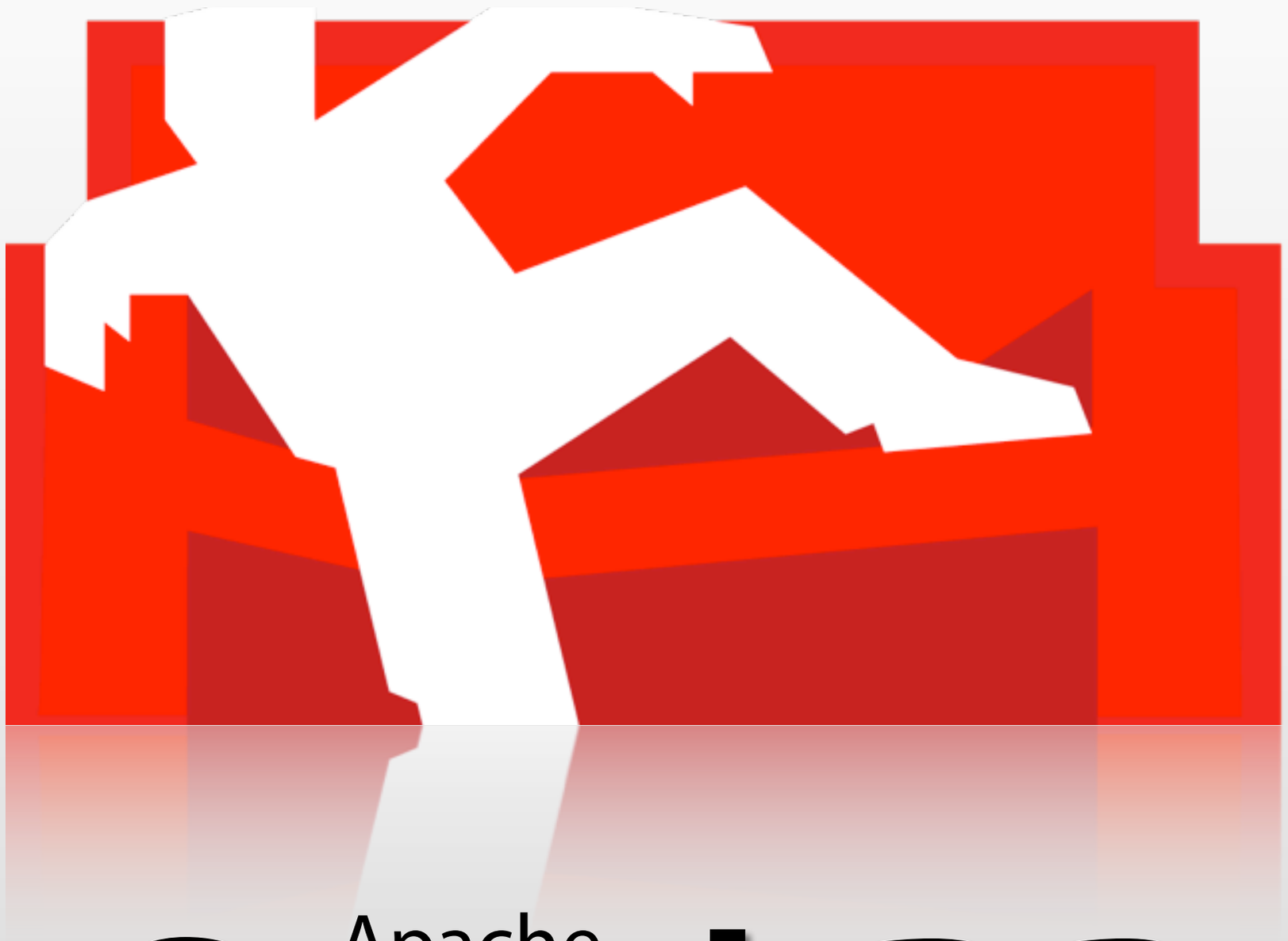
who has seen this logo?
who heard the name?



Apache CouchDB

who has seen this logo?
who heard the name?

CouchDB is a distributed, fault-tolerant, highly concurrent database…

yadda yadda,
why build another mnesia?

Story Time

cue fairy-tale music, a piano would be good

Damien Katz

Saturday, 5 September 2009

Inventor, awesome dude

Damien

- Wanted to work on “cool stuff”
- Started planning a distributed file system for Windows

yuck!

- Distributed Database “Couch”:
  “Cluster Of
  Unreliable
  Commodity
  Hardware”

Reading the manual: > 1y

The Early Days

- Storage Engine
- Query Engine & Custom Language ("Fabric")
- XML as a transport format
- All in C++. All singlethreaded

- Then he wanted to “add concurrency”
- Experience told him it was too hard to get right with the robustness requirements he set for CouchDB

He’s a very smart guy!

- This lead to a more general research of the concurrent programming landscape
- He found Erlang on the Programming Blog “Lambda the Ultimate”

Note to self: There's good stuff on The Web.

2004

- "Erlang so far seems to be a great fit for Couch. It seems like it will support all of my design goals and save me lots of development time compared to Java or C++."

- Port to Erlang in 1 + 6 weeks

Told ya he's smart.

2006++

- CouchDB picks up steam
  - I'm partly responsible

2008

- Becomes Apache CouchDB

2009

- ~~XML~~JSON, ~~Fabric~~JavaScript & Erlang MapReduce Views
- REST API
- Based on Open Standards
- Native to The Web

”Simplicity is prerequisite for reliability“

— *Edsger W. Dijkstra*

```
> wc -l *.*rl | tail -1
  15139 total
```

2009

- Version 0.10.0 beta(!)
- 9 Committers
  - 4 working full time on CouchDB or related stuff, 2 part time
- 100+ production users
- Active, vibrant, friendly, relaxed community

we've got all the important features now

2009…

- 3 books being written (go and buy the O'Reilly one :)
  - http://books.couchdb.org/relax
- Professional consulting, hosting, support, training
- (Sub-) Conference at Erlang Factory
- Multiple startups building their foundations on CouchDB

BBC

ABACA

meebo

mozilla.org

ebay

myspace.com

IBM

Industry Interest

and many more…

Ubuntu Linux

”13+ Million Users World Wide“ — ZDNet

Ubuntu 9.10 *Karmic*
will have CouchDB
as a system service.

Saturday, 5 September 2009

File Edit View History Bookmarks Tools Help

http://localhost:5984/_utils/document.html?bookmarks/79d105d77eff91eb58e908006ad5aaed

Google

main planets forums bugs Reader work play blog Cal Tasks Couchdb

Apache CouchDB - Futon: View ...

Overview bookmarks 79d105d77eff91eb58e908006ad5aaed

Save Document Add Field Upload Attachment Delete Document

Fields Source

Field	Value
_id	"79d105d77eff91eb58e908006ad5aaed"
_rev	"5-1796234659"
application_annotations	Firefox
record_type	"http://example.com/bookmark"
title	"Couchdb"
url	"http://couchdb.org"

Showing revision 5 of 5 ← Previous Version | Next Version →

CouchDB relax

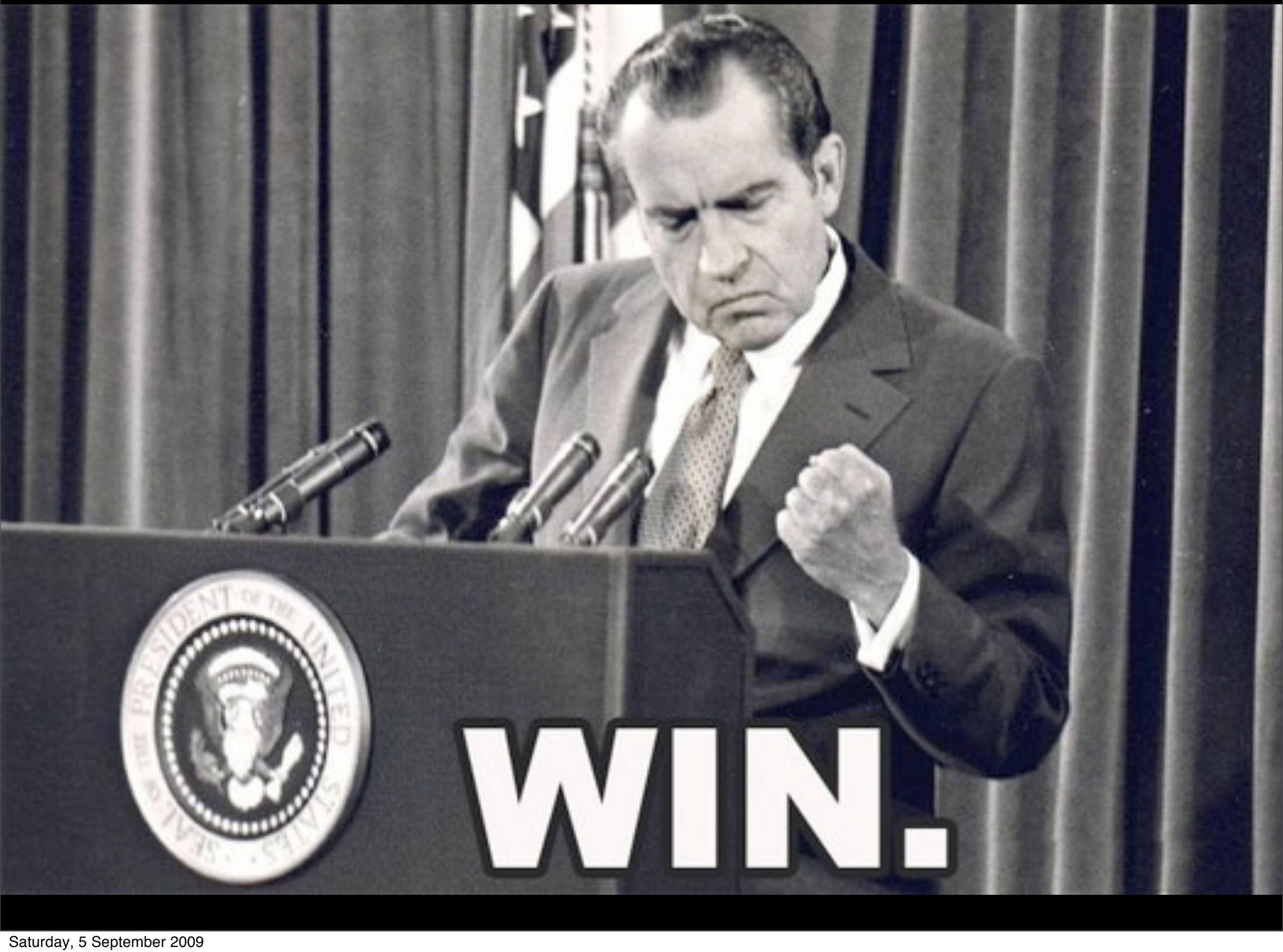
Tools
- Overview
- Configuration
- Replicator
- Status
- Test Suite

Recent Databases
- bookmarks

Futon on Apache CouchDB 0.9.0

Done whiprush

13 Million
New CouchDB
Users!



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We couldn't have done it without Erlang.

Thank you!

breathe

The Bigger Picture.

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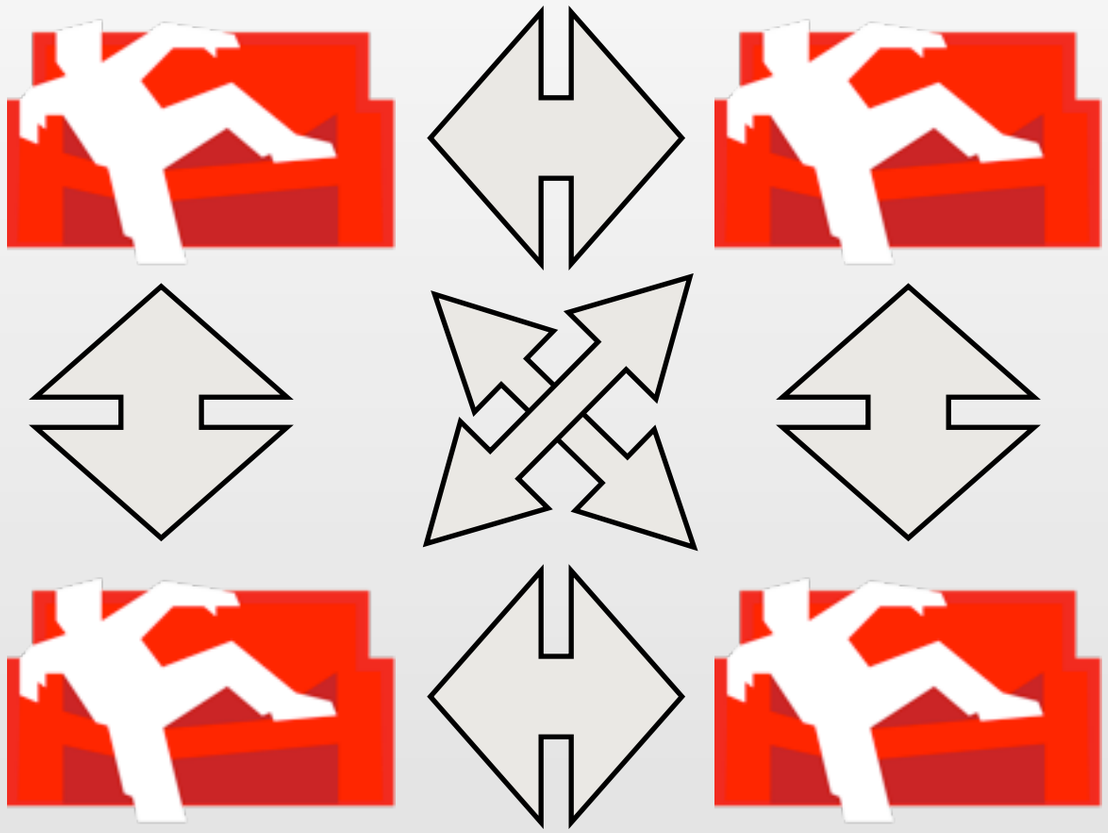
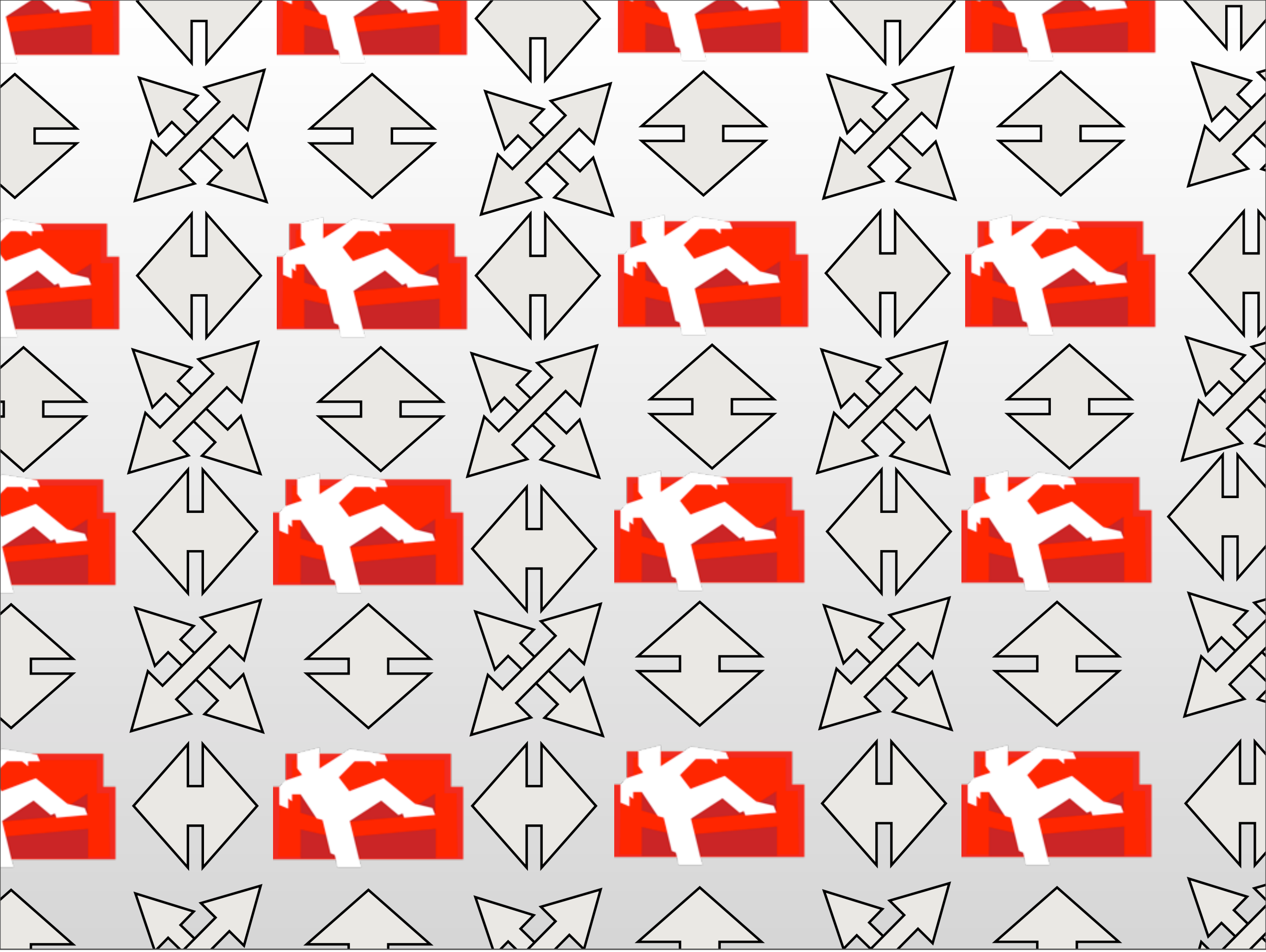
NoSQL / Postrelational

- Redis, Riak, Tokyo Cabinet, Project Voldemort, BerkleyDB, Cassandra, Scalaris, MemcacheDB, Dynamite, SimpleDB, BigTable, MongoDB, Persevere, FluidDB, DB4J ...



Replication



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CouchDB is a Platform.

- Mozilla: BrowserCouch
- Google Chrome: Native couch_btree suport
- Persevere & Midgard have one- and two-way CouchDB replication support

We're working on getting all the other vendors on board as well.

Saturday, 5 September 2009

empty

Erlang served us well.

Starting a discussion.

Saturday, 5 September 2009

no piss of

Starting a discussion.

Saturday, 5 September 2009

no piss of

Erlang is not Open Source

- No open development
- No open bug tracker
- No open roadmap definition
- Vendor lock-in

Reasons for strength
Open Source survey
VCs

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Reasons for strength
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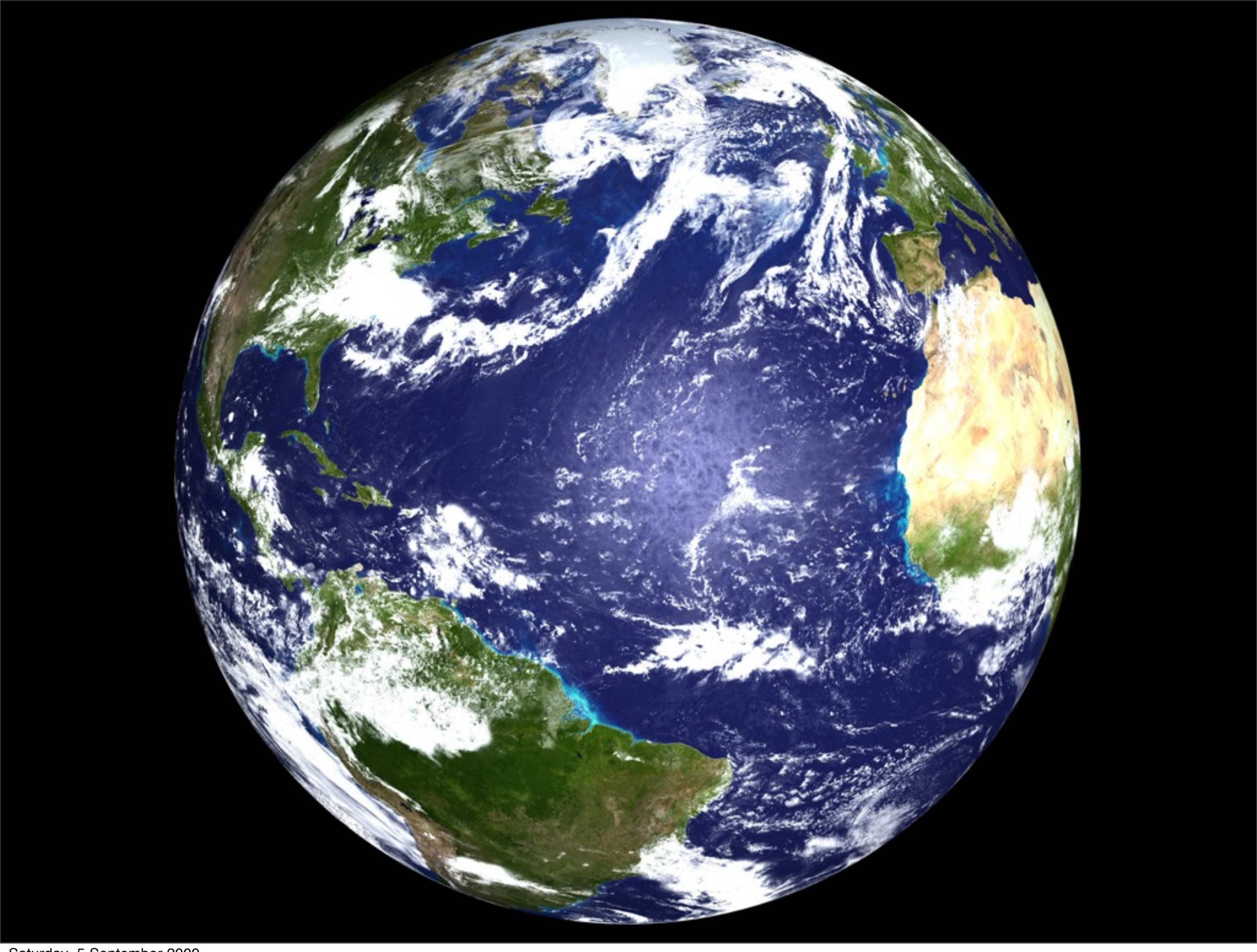
Cuddlez
We haz it
ICANHASCHEEZEBURGER.COM



Saturday, 5 September 2009

Let’s get em!

Thanks.

Thanks again.

Thanks a lot.

You're too kind.

Thank You. Thank You!

Thanks!

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