

mongoDB

```
{  
  name: "MongoDB",  
  tags: [ "agile", "scalable", "noSQL",  
          "non-relational", "non-scheme" ],  
  speaker: "Radek Šimko"  
}
```



Jan Vetyška

@jvety



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Nechapu, kde vsichni berou cas chodit na ty konference a podobny moderni eventy [#rodina](#) [#konicky](#) [#zivot](#) ???

4

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TOP CHAPTERS

(most events in last six months)

1. [GUG.CZ and subchapters](#) (29)
2. [Kyiv GTUG Center](#) (26)
3. [Poznan GTUG](#) (25)
4. [Buenos Aires GTUG](#) (15)
5. [Mercer University GTUG](#) (15)
6. [Omsk GTUG](#) (14)
7. [Taipei GTUG](#) (13)
8. [Ufa GTUG](#) (13)
9. [Knust GTUG](#) (12)
10. [Moscow GTUG](#) (11)

TOP COUNTRIES

(most events in last six months)

1. United States (113)
2. Russia (45)
3. India (43)
4. Poland (42)
5. Czech Republic (29)
6. Germany (27)
7. Japan (27)
8. Ukraine (26)
9. Argentina (26)
10. Ghana (20)

TOP TOPICS

(most discussed during last six months)

1. Android (410)
2. Google App Engine (115)
3. Google Chrome Extensions (74)
4. Google Web Toolkit (62)
5. Google Maps APIs (57)

~ \$ whoami



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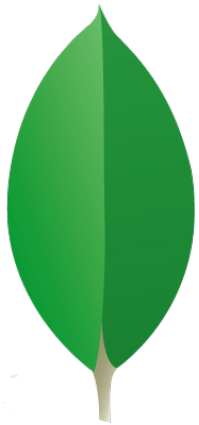
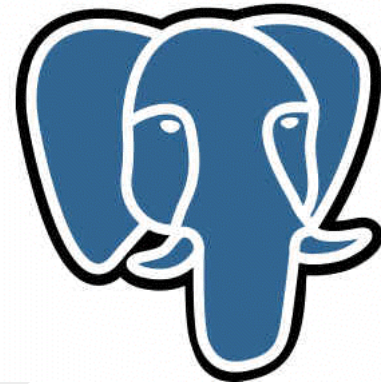
What do we monitor?



Few of our recipes



PostgreSQL



mongoDB

Why MongoDB?



So what is MongoDB?

Scalability & Performance

● memcached

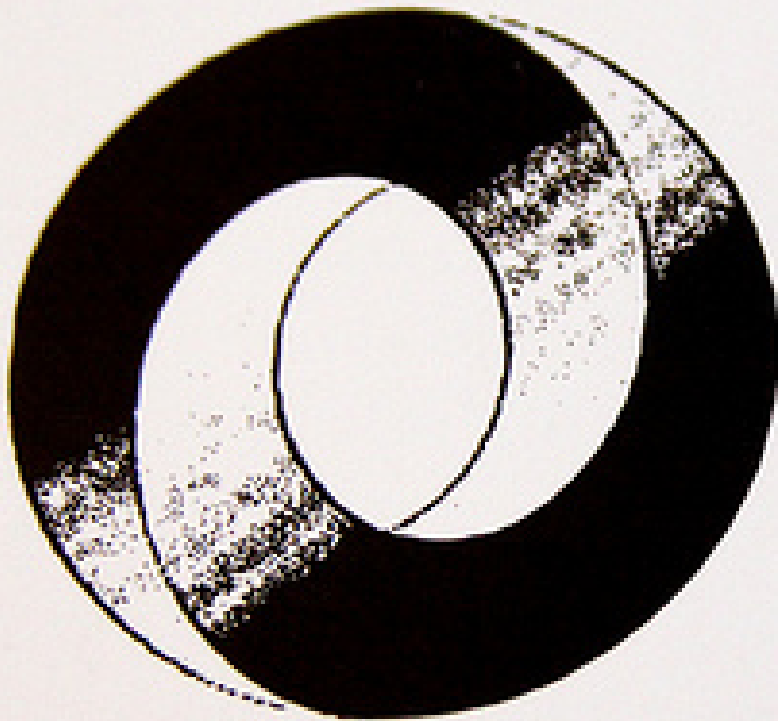
● key / value stores

● MongoDB

● RDBMS

Depth of Functionality

Document-oriented



JSON
Data Interchange Format

A Tiny MongoDB **Browser Shell**

Just enough to scratch the surface (mini tutorial included)

```
MongoDB browser shell version: 0.1.0
```

```
connecting to random database
```

```
type "help" for help
```

```
type "tutorial" to start the tutorial
```

```
> help
```

```
HELP
```

```
Note: Only a subset of MongoDB's features are provided here.
```

```
For everything else, download and install at mongodb.org.
```

```
db.foo.help()          help on collection methods
db.foo.find()          list objects in collection foo
db.foo.save({a: 1})    save a document to collection foo
db.foo.update({a: 1}, {a: 2}) update document where a == 1
db.foo.find({a: 1})    list objects in foo where a == 1
it                     use to further iterate over a cursor
>
```

Easy to use API

Language Drivers

- C
- C++
- Erlang
- Haskell
- Java
- Javascript
- .NET (C# F#, PowerShell, etc)
- Perl
- PHP
- Python
- Ruby
- Scala

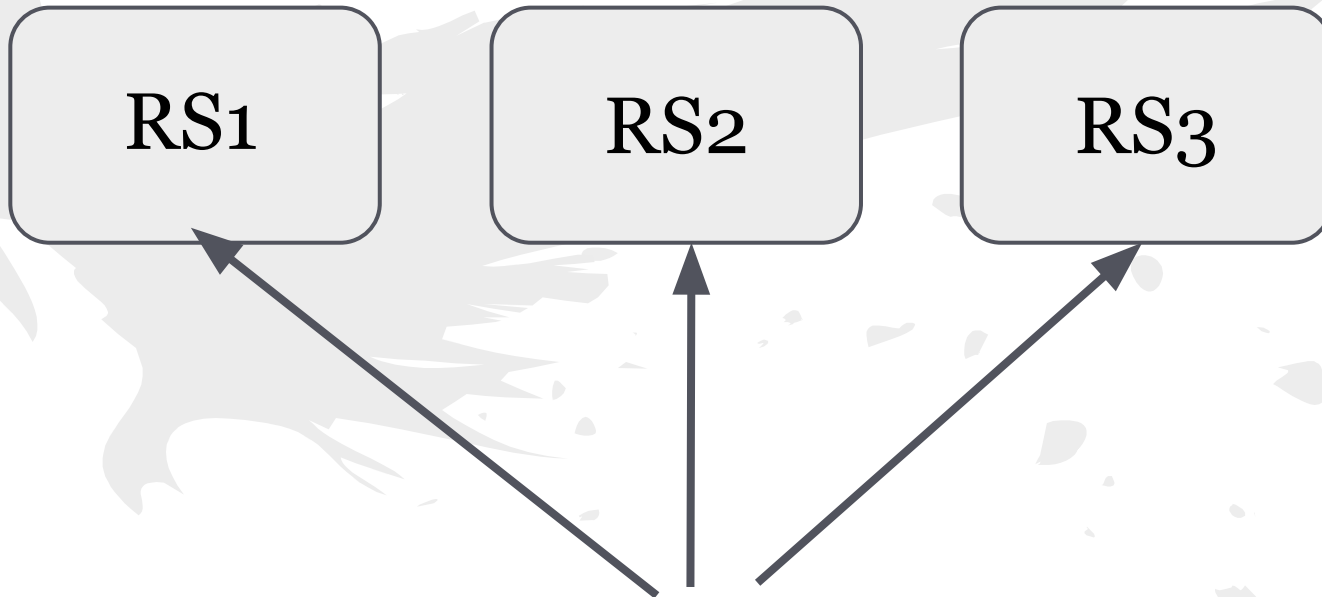
Indexes

- compound

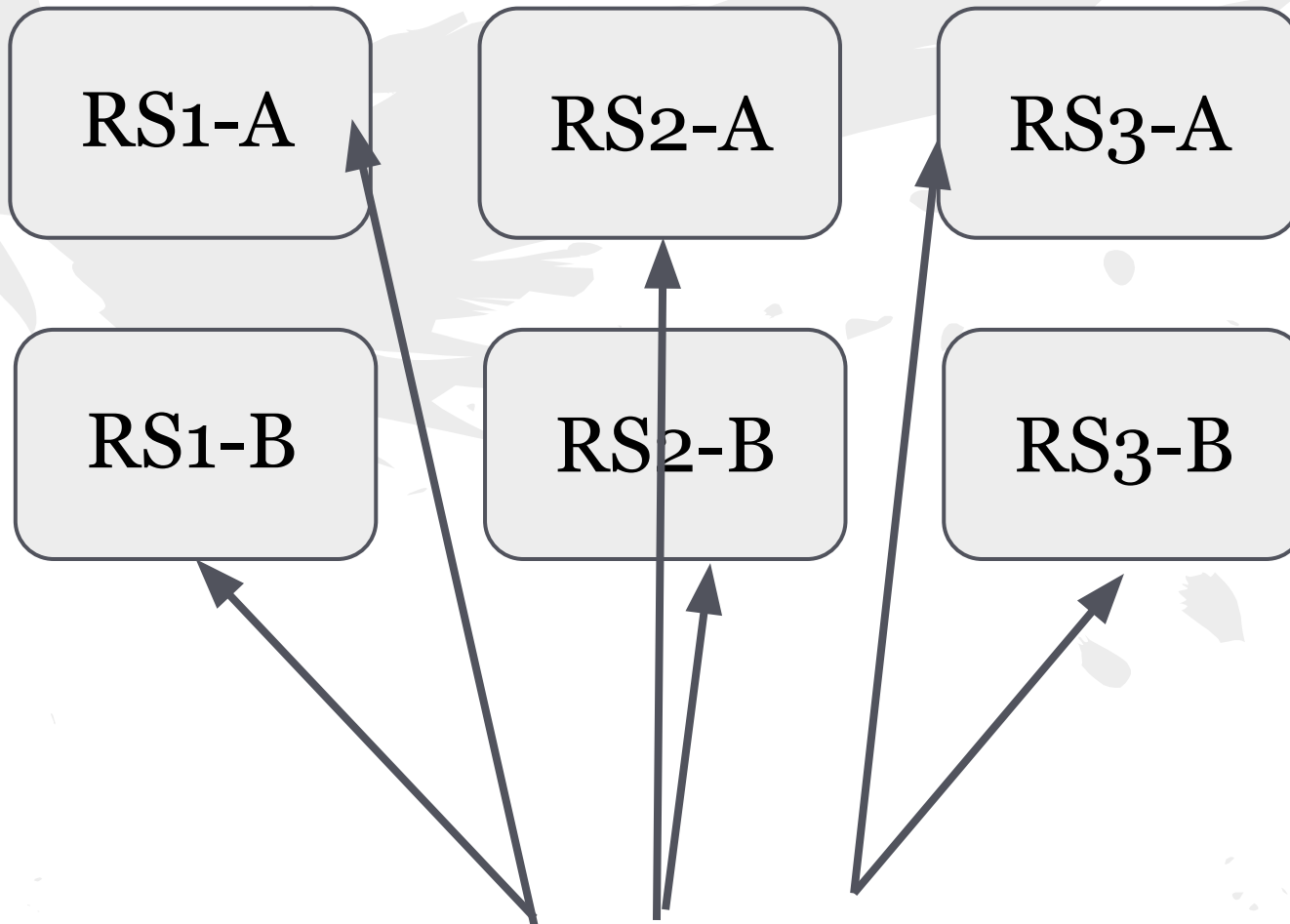
$$A - B - C = A = A - B$$

- sparsed

Replica Sets



Sharding




What cannot Mongo do?

- *Fulltext search*
- relations (foreign keys, joining tables)
- SQL
- triggers
- *authentication* (when sharding)

It's open!

```
git clone git://github.com/mongodb/mongo.git
```

 **mongodb / mongo**

 Watch

 Fork

 2,548

 320

Code

Network

Pull Requests 59

Stats & Graphs

The Mongo Database — [Read more](#)

<http://www.mongodb.org/>

 ZIP

HTTP

Git Read-Only



Read+Write access

branch: **master**

Files

Commits

Branches 11

Tags 124

Downloads

Latest commit to the **master** branch

Dont add addUser lines to shell history SERVER-3768

 **RedBeard0531** authored a day ago

 commit 88db626c74

mongo /

name

age

message

[history](#)



It's under development!

Always use latest STABLE version.

```
> db.mongodb_users.find();
```

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QUESTIONS