

# StrokeDB

Yet Another Database?

*Yurii Rashkovskii & Oleg Andreev*

*2008*



**Trees, maps and  
sortables are hard with  
RDBMS**

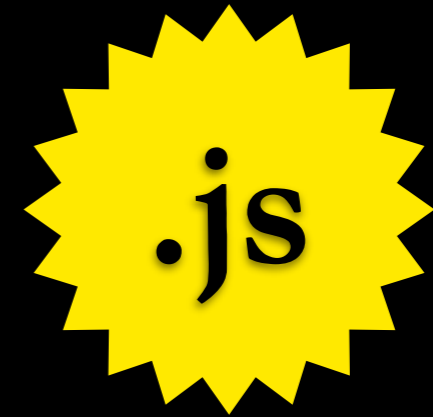


**We need  
flexible  
data formats**

# document.rb



$\{J : \{S : [\emptyset, "N"]\}\}$



```
{  
  "name": "Yurii",  
  "height": 180,  
  "interests": ["ruby", "lisp"]  
}
```



```
{  
  "name": "Yurii",  
  "height": 180,  
  "interests": ["ruby", "lisp"]  
}
```



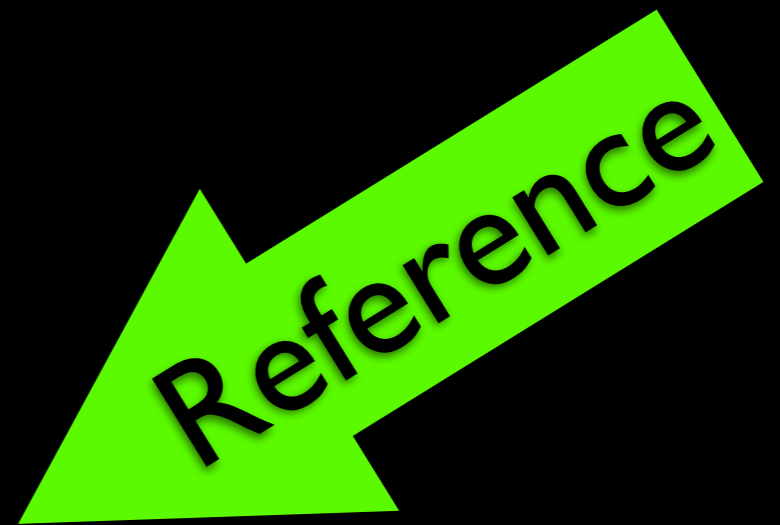
.rb

```
{  
  "name" => "Yurii",  
  "height" => 180,  
  "interests" => ["ruby", "lisp"]  
}
```

```
person = Document.new
person.name == "Yurii"    # String
person.height == 180      # Fixnum
person.interests[0] == "ruby"
person.save!
```

```
{  
  "name": "Yurii",  
  "height": 180,  
  "friends":  
    ["@#12345678-1234-5678-..."]  
}
```

```
{  
  "name": "Yurii",  
  "height": 180,  
  "friends":  
    ["@#12345678-1234-5678-..."]  
}
```



```
person.name == "Yurii"
```

```
person.height == 180
```

```
person.interests[0] == "ruby"
```

```
person.friends[0].name == "Oleg"
```

# Auto dereferencing

```
person.name == "Yurii"  
person.height == 180  
person.interests[0] == "ruby"  
person.friends[0].name == "Oleg"
```

`person.inspect`

`#<{User, Admin} "name"=>"Yurii" ...>`

person.inspect



Meta documents

#<{**User**, **Admin**} "name"=>"Yurii" ...>

```
Admin = Meta.new("rights"=>["kill", "ban"]) do
  def kill!(user)
    ...
  end
  def ban!(user)
    ...
  end
end
```

```
Admin = Meta.new("rights"=>["kill", "ban"]) do
  def kill!(user)
    ...
  end
  def ban!(user)
    ...
  end
end
```



Serialized behavior

```
Admin = Meta.new("rights"=>["kill", "ban"]) do
  def kill!(user)
    ...
  end
  def ban!(user)
    ...
  end
end
```



Executable code



**The data I need is  
somewhere else**

~~autoincrement~~

# UUID

550e8400-e29b-41d4-a716-446655440000

**1 trillion UUIDs would have to be created every nanosecond  
for 10 billion years to exhaust the number of UUIDs.**

**Distributed for**

**offline work**

**webservices**

**(REST, SCHMEST)**

**collaboration**

**Distributed for**

offline work

webservices

(REST, SCHMEST)

**collaboration**

Farmer, Milen

Милён Фармёр (фр. *Mylène Farmer*, настоящее имя Милан Готье (Mylène G...))

**Содержание** [убрать]

- 1 Биография
- 2 Дискография
  - 2.1 Альбомы
  - 2.2 Синглы
  - 2.3 DVD
  - 2.4 VHS
  - 2.5 Laser discs
- 3 Ссылки

**Биография**

Милен родилась в Канаде и первые годы жизни провела в окрестностях Монреаля. В начале 1980-х поступила на занятия в театральную школу. В этот период она познакомилась с режиссёром Жаном-Пьером Лопом, с которым выпустила дебютный сингл «*Maman a tort*» («Мама виновата») в 1984 году. В 1985 году выпустила французским диском «*Libertine*» с этого же названия одиннадцатиминутный видеоклип, ставший популярным. В 1988 году она выпустила альбом «*Autant en emporte le vent*» во Франции, и в 1989, в течение одного тура выступила в Париже, все билеты на которые были распроданы. Видеоклипы, снятые на её песни композитором Бутона. После выхода альбома «*L'Autre*» в 1990 году «*Anamorphosée*».

# Rails Trac

Wiki Timeline Roadmap

root / trunk

http://dev.rubyonrails.org/browser

Name	Size	Rev	Age	Last Change
./				
actionmailer		8820	1 month	bitsweat: Remove empty
actionpack		8985	2 days	pratik: Remove unused
activemodel		8118	4 months	rick: initial experiment
activeresource		8979	4 days	nzko: Make the schema
activesupport		8900	2 weeks	bitsweat: URI.decode s
activesupport		8984	2 days	pratik: Docs for Active
railties		8921	2 weeks	nzko: Patch to add a
cleanlogs.sh	75 bytes	865	3 years	david: Logs in GEMs is
pushgems.rb	486 bytes	8180	4 months	david: Ousted ActionW
Rakefile	0.5 kB	8432	3 months	bitsweat: Toplevel test
release.rb	0.8 kB	8329	3 months	david: Removed query

Property svn:ignore set to rails

View changes...

Download in other form  
Zip Archive

# Lighthouse

stay on course

Add new ticket 1.0 preview

Log in Sign up HELP

rubinfus

Next Milestone

1.0 preview 80%

Expected: May 16th | 68 tickets remain, 338 total

Pages

- Home
- Specs - Overview
- Specs - Continuous Integration
- Specs - Organization
- Specs - Runners
- Specs - Style Guide
- Bulletin Board
- Howto - Fix a failing spec
- Using Git
- Howto - Write a spec
- Contributor Platforms
- Releases
- Getting Started
- FAQ
- Installation

Overview Tickets Milestones

New ticket

Today, March 6th

- resolved Adam Gardiner updated "CPU Sampler Profiler has non-deterministic failures" #365 06:44 AM
- open Ryan Davis updated "[BUG] eval/instance\_eval fails to correctly modify TOPLEVEL\_BINDING" #354 | Assigned to Ryan Davis 02:27 AM
- open Ryan Davis updated "[BUG] assign against splatted range" #380 | Assigned to Ryan Davis 02:18 AM

Yesterday, March 5th

- open Brian Ford updated "[BUG] String#to\_f spec fails on "-0"" #307 | Assigned to Ryan Davis 06:10 PM
- new Brian Ford created "Replace Hash with LookupTable" #381 | Assigned to Brian Ford 06:05 PM

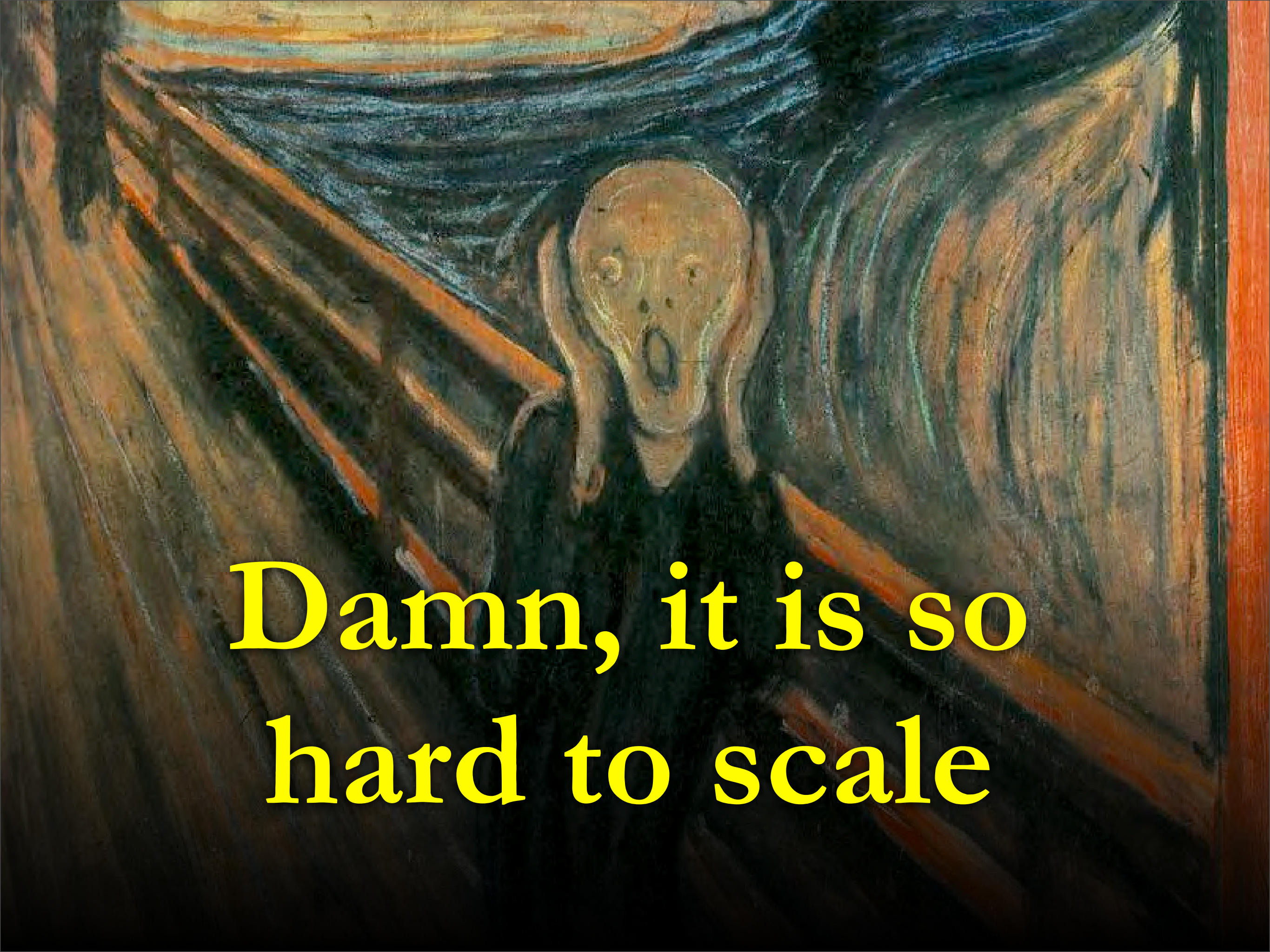
Before March 5th

- new Patrick Hurley created "[BUG] assign against splatted range" #380 | Assigned to Ryan Davis | 1 attachment March 3rd 08:22 PM

wikipedia, subversion, bugtrackers





The background of the image is a reproduction of the painting 'The Scream' by Edvard Munch. It depicts a figure in a dark, swirling, turbulent sea, with a pale, ghostly face and wide, staring eyes, symbolizing intense emotional distress or mental anguish. The colors are dominated by dark blues, greens, and browns, with a stark contrast in the central figure's pale skin.

**Damn, it is so  
hard to scale**



# Goals

Semistructured data

Decentralization

Universal scalability

# Thanks!

```
$ git clone git://gitorious.org/strokedb/mainline.git strokedb
```