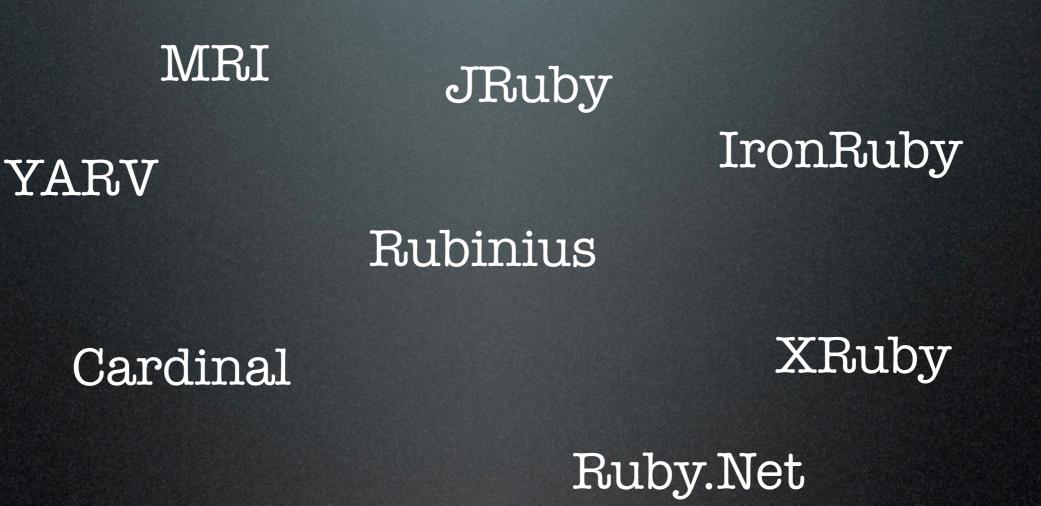
JRuby on and off Rails

Ruby interpreters



What JRuby is

An interpreter

A compiler





Performance-critical code is

Java

not C

Use Java libraries from Ruby code

Source code parsing

Crypto

Legacy Java code

Credit card processing

by Mathieu Martin

RFID

Using Rails in Java shops => Just deploy your WAR file

Real threads

Thread pools

(A temporary advantage)

But C extensions?

Once thought impossible. Now:

Declaration

```
import com.sun.jna.Library;
public interface POSIX extends Library {
    public int chmod(String filename, int mode);
    public int chown(String filename, int owner, int group);
}
```

Use

```
import com.sun.jna.Native
POSIX posix = (POSIX)Native.loadLibrary("c", POSIX.class);
```

Thanks to the JNA Java library



Source at the end

And performance?

As of JRuby 1.1 With Java 1.6...

And performance?

JRuby 1.1 might be the fastest way to run Ruby 1.8 and Rails

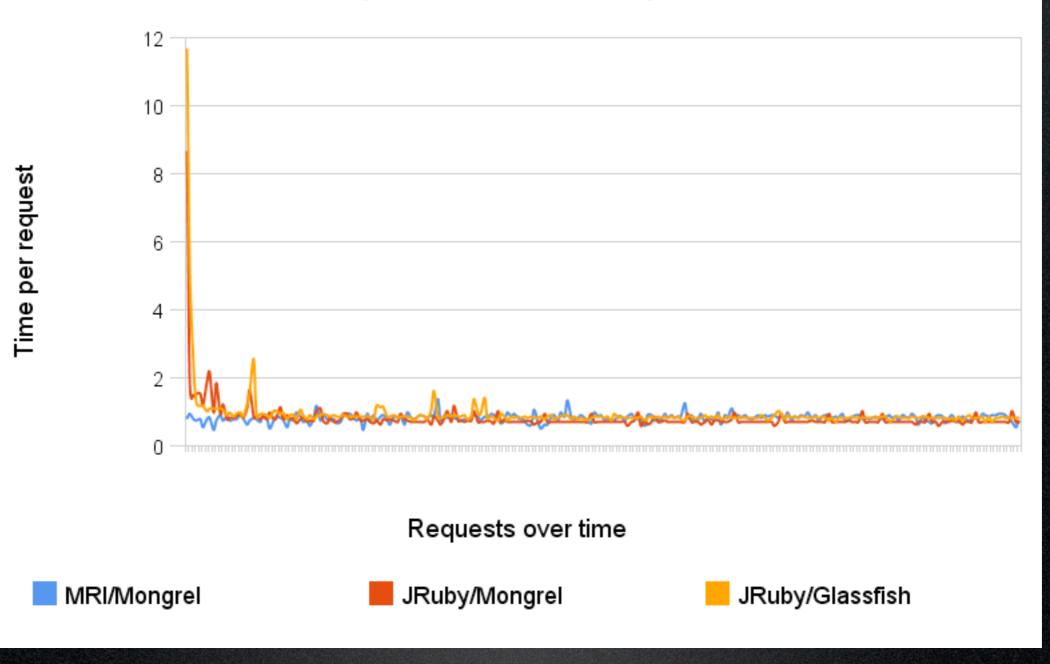
About performance

Performance improvements come from:

- JRuby team improving JRuby (free)
- Sun improving the JVM (free)
- Tweaking JVM settings and profiling (risk-free)
- You fixing your ugly code (work!)

Let's back this up

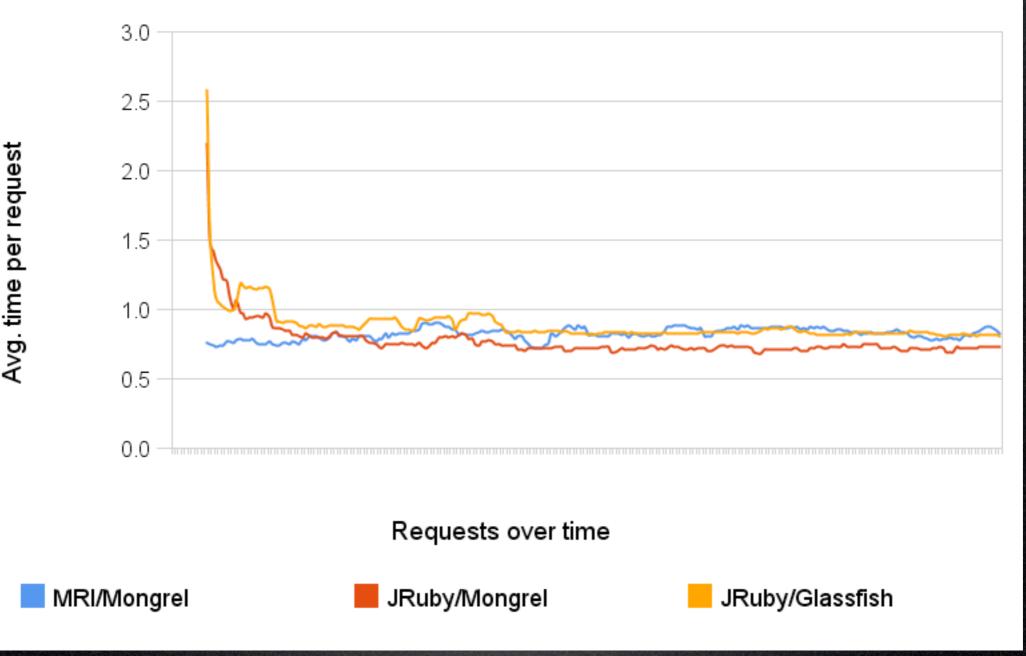
Rails performance comparison



Based on Nick Sieger's blog post from Oct 24th

Let's back this up

Rails performance comparison - avg. on last 10



Based on Nick Sieger's blog post from Oct 24th



All that on JRuby 1.0.1

Use cases

Use case: scripting

Not really its strength:

x JVM too long to start

x console clunky when Ruby and JRuby live side by side

mm:~ mat\$ jruby -S gem list

Use case: client-side app

Might work:

App runs long enough

✓ No frills install (+/-)

Java has a good market penetration

Swing's getting pretty fast Check out Profligacy by Zed Shaw

Use case: server-side app

That's where it's happening

- Server JVM optimizes app at runtime
- ✓ Lots of great servers
 - Glassfish, JBoss, Oracle, Tomcat, Jetty...

Great monitoring tools
 Deployment of a WAR file

Demo time?

What I'm about to use...

- mysqljdbc adapter
- activerecord-jdbc gem
- Glassfish and Jetty web servers
- Goldspike: Rails app => WAR file

Other options

- Warbler: also Rails app => WAR
- Glassfish gem is also available

Demo time!

What's the catch?

Downsides to JRuby

- Moving at breakneck speed
 - Getting very good very fast
 - x Documentation is lagging a bit and scattered over different blogs

Downsides to JRuby

- Some bugs remaining
- Still some differences vs MRI
 - Not all plugins will work out of the box

We can help!

- Contribute to the wiki
 - Blog about your findings, then put it on the wiki
- Contribute code fixes
 - To JRuby
 - To Goldspike
 - To Glassfish, Jetty

To know more

- Charles Oliver Nutter
 - => headius.blogspot.com
- Ola Bini
 - => ola-bini.blogspot.com
- Nick Sieger
 - => blog.nicksieger.com
- Thomas Enebo
 - => bloglines.com/blog/ThomasEEnebo

To know more

• The sites

- =>jruby.org ->jruby.codehaus.org
- =>headius.com/jrubywiki
- Mailing lists

=>user =>dev =>scm

To know more

• Other sources

=> ADS blog: rorblog.techcfl.com/category/jruby/

(2 great step by step JRuby tutorials)

- => jrubyinside.com
- => glassfish.dev.java.net
- => Glassfish gem:
 - => weblogs.java.net/blog/arungupta/archive/2007/09/ announcing_glas.html
- => Profligacy (Swing): ihate.rubyforge.org/profligacy

Elephant in the room

- => Article: newyorker.com/online/2007/05/14/ slideshow_070514_banksy
- => Artist: http://www.banksy.co.uk/

Shameless plug

I'll put this presentation on my blog => webmat.wordpress.com

Note: the performance charts are available at http://spreadsheets.google.com/pub?key=ps'7Wjwj1ZaGOmmOXH5bRtTA

Questions? Comments?

Insults? => /dev/null