Athens ruby meetup #11

22 June 2012

Theodoros Orfanidis | @teoulas

Yukihiro Matsumoto
One size does not fit all

- Ruby's Unix scripting beginnings

- Moved to CGI/WWW

- Mobile age

- Embedded systems, appliances, other devices

- Ruby fits brain, but not small devices

- Alternative runtimes, JRuby, rubinus, maglev

- mruby!

- Separate parser, ship bytecode

- Include custom subset of core libraries and classes

- Incremental GC, MRI GC pauses

- Soft-realtime

- Embeddable in applications (like lua)

Sean Cribbs
A Case of Accidental Concurrency

- Intro (Riak promotion, Erlang usage @ basho)

- Riak streaming operations (eg. HTTP chunked encoding)

- Curb/libcurl takes a block that runs each chunk

- libcurl handle reuse issue (not re-entrant)

- Fibers

- "Pump" (event-loop like)

- Connection pool

- Scope leak (shared resources)

- Pass custom behaviour to library (eg. curb)

Vicent Martí
Ruby is unlike a Banana

- github:fi fork for JRuby was behind

- Re-merged with github.com running on MRI

- They don't believe in JVM

- Need C to understand UNIX?

- Need UNIX to understand Ruby

- UNIX philosophy of simple tools

- Ruby: So UNIX it hurts

- github is a UNIX shop

Eloy Durán
CocoaPods

- Objective-C situation with libraries

- Shaving

- Bundler-like simplicity

- Singing!

Rick Olson
ZeroMQ: Supercharged Sockets

- Travis-CI uses AMQP

- Experiment with ZeroMQ

- Library, not server (unlike resque, rabbitMQ)

- Content agnostic

- Thread to thread, IPC, TCP, Multicast

- Parallel pipeline, Pub-sub patterns

Elise Huard
Ruby's bin men: a closer look at the garbage collector

- Automatic, dynamic, memory management

- Ruby: all in the heap

- Rails: long running-processes, lots of objects (350k!)

- MRI (1.8): Conservative, mark-and-sweep, stop-the-world

- YARV (1.9): Lazy sweep, Env. vars

- REE (1.8): Copy-on-write

- Ruby 2.0: Bitmap marking, parallel marking

- Rubinius: Generational GC

- JRuby: JVM GC (generational)

Roy Tomeij
Modular & reusable front-end code with HTML5, Sass and CoffeeScript

- Modular HTML (using HTML5 elements)

- Module gets its own (generic) class name

- Module gets its own scope

- Use classes, not IDs

- Shallow selectors

- CSS nesting using SASS

- Media queries in the module (using SASS)

- IDs and data-attrs for Javascript hooks

- File per module

Martin Rehfeld
Ruby & Erlang - At Scale with Style

- 14b req/month, 100k DB ops/sec

- Stateless app servers mostly

- Then they went stateful with erlang

- One process per user gaming session, no shared data

- Where's Ruby? Running background jobs

- ZeroMQ for messaging

Geoffrey Grosenbach
Watching people code

- Play-by-play series of screencasts

- 90-minute tasks

- Most people use VIM

- Most people don't start with the text editor (sketching)

- Simple tools (UNIX way)

- @tenderlove "flawless" workflow

- TDD helps focusing on the problem

- Delete your code

- Getting lost in the rabbit hole (distractions)

- Flow (skater analogy)

- Sunk cost fallacy

Mitchell Hashimoto
Building a Ruby Library, the Parts No One Talks About

- Intuitive API (idiomatic)

- Configuration (plain old Ruby)

- Logging (stdlib Logger is shit)

- Exceptions (abstraction leakage)

- Documentation (YARD, Jekyll)

- Support

- Whole is greater than sum

Brian Ford
Code Insight: Rubinius 2.0 and Nikita

- Generational GC

- Uses LLVM

- Inlining

- Provides C API

- Internals (primitives and compiled methods)

Bruno Aguirre
The Future is Dead: Long live the Past

- UNIX philosophy

- Simple parts, clean interfaces

- Single responsibility principle

- Keep it simple stupid (KISS)

- Forgotten database features due to ORMs

- Constraints (FKs, unique indexes)

- Prepared statements, stored procedures

- HTTP protocol history

- HTTP Upgrade header

- PTTH

- Learn from the past

Konstantin Haase
Beyond Ruby

- Full object orientation

- Data and functionality?

- Message sending

- Extreme late binding

- Newspeak, only message sending

- Homoiconicity (program code as primitive data type)

- Declarative programming (prolog, erlang)

- Hardware programming (VHDL)

Terence Lee
Bundle install Y U SO SLOW

- Dependencies before bundler

- Bundler 1.0 was slow

- Gem spec files (version info, no dep. info)

- .gemspec files (dependencies)

- Dependency tree memory-heavy, slow

- Rubygems API endpoint, fetches deps

- Private gem server complexity

- Gem development locally

- Gem with binstubs, bundle exec or not?

Charles Nutter
JRuby, dudes!

- Red hat supports JRuby

- JRuby as a drop-in replacement for MRI

- JVM not very POSIXy

- JRuby 1.7 defaults to Ruby 1.9.3 features

- Swing GUI and midi audio demo from jirb!

- JRuby takes advantage of JVM optimizations

- On the server: Trinidad and Torquebox

- JVM GC and multi-threading

- Profiling and monitoring tools for the JVM

- VisualVM demo

http://vimeo.com/euruko/videos

Our turn!

EuRuKo 2013 in Athens!