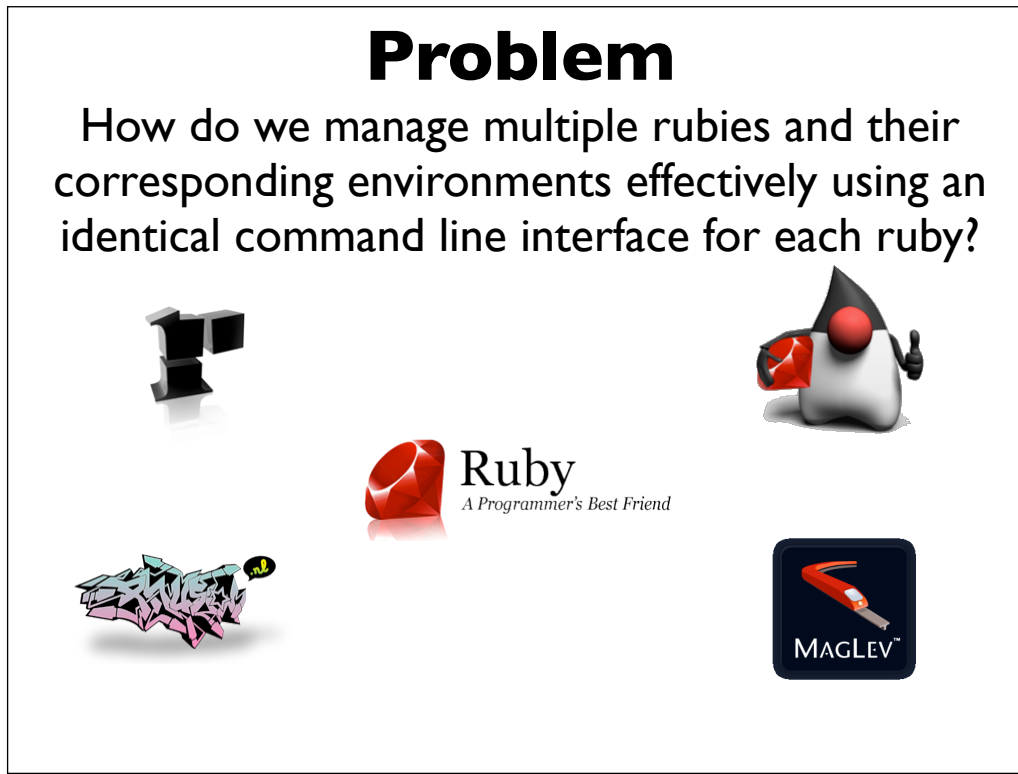


Problem

How do we manage multiple rubies and their corresponding environments effectively using an identical command line interface for each ruby?



RVM Requirements

- * Modify the shell environment!!!
- * Must be available on all semi-intelligent systems by default or very easy to install!
bash, sed, awk, grep, curl

Problem

How do we install and use rubies, in the absence of a 'system' ruby, in a consistent yet simple manner while allowing for manipulation of the underlying compilation?

Further, how do we install the latest versions from each Ruby's repository using the same command line interface?

- ▼ ▢ Rubies
 - ▼ ▢ Installing OS Dependencies
 - ▢ rvm notes
 - ▢ listing known
 - ▢ installing
 - ▢ using
 - ▢ listing installed
 - ▢ setting a default
 - ▼ ▢ installing 'head/trunk' versions
 - ▢ Mention versions & revisions -tv..., -r...

Problem

How do we account for system library incompatibilities with each Ruby's requirements?

▼ Packages

▼ why they exist

- point out openssl 1.0.0 for example

▼ readline / zlib / ...

- architecture library version differences

- show package install X

▼ show how to include from command line -C

- NOTE: Different ruby interpreters will accept the parameters differently

▼ show ruby_configure_flags= -> ~/.rvm/user for convenience

- MRI Rubies

Problem

How do we effectively manage each projects gem dependencies while eliminating gem and version conflicts?

```
▼ Gemsets
  · -about
  · -creating
  ▼ using: ruby string@gemset also
  · -listing
  · -deleting
  · -emptying
  · -exporting
  · -importing
  · -copying
  · -global
  ▼ initial (default gemset files) ~/.rvm/gemsets/...
```

Problem

How do we automatically enter each projects environment simply by switching to the project root in our consoles?

▼ ▢ .rvmrc files, Project management

▼ ▢ /etc/rvmrc & \$HOME/.rvmrc

- ▢ configuration

▼ ▢ \$project/.rvmrc

- ▢ functionality when entering a project directory, works great when used with gemsets.

▼ ▢ Examples:

- ▢ select an RVM ruby
- ▢ Autoload gemsets
- ▢ Bundler auto install technique

▼ ▢ arbitrary shell commands

- ▢ git fetch origin

Problem

How do we operate and test our applications across various rubies in a consistent and simple manner?

▼ □ Set Commands

Notes:

Without any rubies selected runs against all base interpreter gemssets.

If a list of rubies is provided, iterates through that list.

Can specify --json / --yaml / --summary for succinct output with logged full output.

- □ ruby
- □ gem
- □ rake
- □ tests / specs
- □ benchmark
- □ monitor

Problem

How do we integrate our various tools and applications?

Integration

- * Mention & Show documentation pages
- * Show passenger example specifically

Problem

How do we effectively deploy our applications to production environments given no system ruby on the servers while requiring each application to be completely isolated from the next.

Deployment

- * 1 project = 1 user
- * 1 RVM installation per user (optimal)
- * Bring new servers online very quickly
 - * 'Cloning' -> rsync 'just works' for example, to bring up the application on new servers quickly (assuming \$home path same)
- * Separation of rubies, modifying one user's rubies does NOT affect another's.
- * .bashrc / .bash_profile
- * .environment
- * rvm sudo when necessary (controlling a web server from RVM env)

Problem

How do I manage development of this insane and challenging project?

Development

UDD

- * IRC!!!

- * easy -> now

- * hard / requires more thought -> Tracker

DDD

- * Document then Implement

Plans

- * Ruby API

- * Named Installs

- * Binary Installs

Problem

How do I contribute to the awesome
Ruby Summer of Code?
(<http://rubysoc.org/>)

Explain Ruby Summer of Code

show website

Some Goals

- * Deployments made

easier

- * Helping RVM integration for many deployment projects

- * CI made easier

- * RVM based CI system for ruby projects

Problem

How do I thank all of the awesome people that have kept me going through encouragement and donations?

Darcy Lacock
@Sutto
Ruby Summer of Code

Doners!!!

<http://rvm.beginrescueend.com/credits/donations/>





Problem

How do we end this problematic presentation?

Problem

How do we end this problematic presentation?

Resources

Further Basic & Background Information

- <http://rvm.beginrescueend.com/presentations/mwrc-2010/>
- <http://mwrc2010.confreaks.com/2010-03-11-10-30-wayne-e-seguin-managing-ruby-projects-with-rvm.html>

RVM Resources

- <http://rvm.beginrescueend.com/>
- <https://www.pivotaltracker.com/projects/26822>
- <http://webchat.freenode.net/?channels=rvm>
- <http://www.pledgie.com/campaigns/9822>

Questions?