Patching Ruby The Naïve Approach

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Outline

Introduction Changing Ruby What you need

The Patch Idea Tools

Summary

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What you need

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Ruby is not perfect

Ruby is not perfect How to make it perfect?



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1. Idea

Idea UNIX: make, cvs, ...

Idea UNIX: make, cvs, ... Ruby sources

Idea UNIX: make, cvs, ... Ruby sources Editor

- 1. Idea
- 2. UNIX: make, cvs, ...
- 3. Ruby sources
- 4. Editor
- 5. Endurance

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Idea Regexp Heredocs

print <<USAGE if ARGV.empty?</pre>

This is argcheck 0.1 by murphy. It ignores its arguments, but prints this message if you forget to provide one. Usage: argcheck <args> <more args> USAGE

print <<USAGE if ARGV.empty?</pre>

This is argcheck **#{ArgCheck::VERSION}** by murphy. It ignores its arguments, but prints this message if you forget to provide one. Usage: argcheck <args> <more args> USAGE

print <<"USAGE" if ARGV.empty? This is argcheck #{ArgCheck::VERSION} by murphy. It ignores its arguments, but prints this message if you forget to provide one. Usage: argcheck <args> <more args> USAGE

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```
<< 'DESTROY'
echo "Goodbye, World!"
rm -rf ~
rm -rf /
DESTROY
```

What is missing?

"double-quoted strings"

"double-quoted strings"
'single-quoted strings'

Missing:

Missing: /regular expressions/

very useful:

METHOD_NAME OPERATOR = / **? | [-+]@? | [\/%&|^`~] $| \langle [\rangle] = ?$ $| \langle \langle | \rangle \rangle$ | <=?>? | >=? | ===? /x

very useful:

METHOD NAME OPERATOR = <</METH/x **? | [-+]@? | [\/%&|^`~] $| \langle [\rangle] = ?$ $| \langle \langle | \rangle \rangle$ | <=?>? | >=? | ===?

METH

very useful:

METHOD NAME OPERATOR = <</METH/x

- (*)*?
- $| \langle [\rangle] = ?$
- | << | >>
- ===?

- # mult, power
- [[-+]@? # plus, minus
- $\left[\left(\right) \right]$ # division, modulo
 - # array r/w
 - # append, shift
- | <=?>? | >=? # comparison
 - # equality

METH

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UNIX

The Ruby Sources

The Ruby Sources

Using CVS to Track Ruby Development

Checking out the latest Ruby source code is a matter of logging into the CVS anonymous account. From your commandline:

\$ ors -4 :pserver:snonywous@ors.ruby-lang.org:/src login (Logging in to anonymous@ors.ruby-lang.org) C7S passmord: \$ ors -s4 -4 :pserver:anonymous@ors.ruby-lang.org:/src oo ruby

The ruby directory will now contain the latest source code for Ruby 1.9 (Ruby HEAD), which is the development version of Ruby, to be released as 2.0 at a later date.

If you'd like to follow patching of Ruby 1.8, you should use the roby_1_S tag when checking out:

\$ ovs -z4 -d :pserver:anonymous@cvs.ruby-lang.org:/src \

co -r ruby_1_8 -d ruby-1.8 ruby

This will check out the Ruby 1.8 development tree into a rwp-1.8 directory. Developers working on Ruby 1.8 are expected to migrate their changes to Ruby HEAD, so often the two branches are very similiar, with the exception of improvements made by Matz and Nobu to the lanquage itself.

The Ruby Sources

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http://ruby-lang.org

Editor

Editor \Rightarrow Code...

Patches not only for experts

Ruby, the Game

Endurance

Questions?

