

Ruby master - Feature #14938

Provide API to get same result as ruby -wc

07/25/2018 03:58 PM - mtsmfm (Fumiaki Matsushima)

Status:	Open
Priority:	Normal
Assignee:	
Target version:	
Description	
I'm the author of an implementation of Ruby Language Server. Currently, it uses RubyVM::InstructionSequence.compile to get the result of ruby -wc and parses message and location by regexp. https://github.com/mtsmfm/language_server-ruby/blob/v0.11.0/lib/language_server/linter/ruby_wc.rb#L30 Do you have any plan to provide API?	

History

#1 - 07/25/2018 06:31 PM - shevegen (Robert A. Heiler)

This may also be useful for irb/pry add-ons, I think.

Perhaps Koichi-san can comment on the issue if he has time.

#2 - 07/26/2018 06:25 AM - ko1 (Koichi Sasada)

Good idea. Do you have an idea about API and implementation?
Maybe parse.y should be modified (== difficult).

#3 - 07/26/2018 03:21 PM - mtsmfm (Fumiaki Matsushima)

I want to get 3 things.

1. Type (warning or error)
2. Message
3. Location

I think location interface should be the same as RubyVM::AST::Node

<https://ruby-doc.org/core-2.6.0.preview2/RubyVM/AST/Node.html>

My proposal is the following:

```
source = <<-RUBY
a = 1
RUBY
```

```
results = RubyVM::AST.lint(source) # I'm not sure about suitable class/module for this method
result = results.first
result.type
#=> warning
result.message
#=> assigned but unused variable - a
result.first_lineno
#=> 1
result.last_lineno
#=> 1
result.first_column
#=> 0
result.last_column
#=> 1 (or 5?)
```

#4 - 07/27/2018 03:04 AM - nobu (Nobuyoshi Nakada)

Why don't you use ripper?

```
#!/usr/bin/ruby
require 'ripper'
class Lint < Ripper
```

```

def warn(*s)
  @results << [:warning, lineno, column, *s]
end
alias warning warn

def results
  unless defined?(@results) and @results
    @results = []
    parse
  end
  @results
end
end

$VERBOSE = true
results = Lint.new("def f;a = 0;end").results
p results

$ ruby lint.rb
[[:warning, 1, 15, "assigned but unused variable - %s", "a"]]

```

#5 - 07/29/2018 04:37 PM - mtsmf (Fumiaki Matsushima)

Hmm, I tried warn but it doesn't work in some case:

```

#!/usr/bin/ruby
require 'ripper'
require 'tempfile'

class Lint < Ripper
  def warn(*s)
    @results << [:warning, lineno, column, *s]
  end
  alias warning warn

  def results
    unless defined?(@results) and @results
      @results = []
      parse
    end
    @results
  end
end

data = DATA.read
result1 = nil

Tempfile.create do |file|
  file.write(data)
  file.flush
  result1 = `ruby -wc #{file.path}`
end

$VERBOSE = true
result2 = Lint.new(data).results.first

p result1
#=> /tmp/20180729-457-smihk6:1: warning: ambiguous first argument; put parentheses or a space even after `/' o
perator
#=> "Syntax OK\n"
p result2
#=> nil
__END__
a /#{
}

```

In addition,

- How can I get the range of code instead of lineno and column only?
- Is there any way to detect syntax error?
 - It seems Ripper#compile_error doesn't work

```

#!/usr/bin/ruby
require 'ripper'

```

```

require 'tempfile'

class Lint < Ripper
  def compile_error(*s)
    @results << [:error, lineno, column, *s]
  end

  def results
    unless defined?(@results) and @results
      @results = []
    end
    parse
  end
end

data = DATA.read
result1 = nil

Tempfile.create do |file|
  file.write(data)
  file.flush
  result1 = `ruby -wc #{file.path}`
end

$VERBOSE = true
result2 = Lint.new(data).results.first

p result1
#=> /tmp/20180729-461-1wcbfr4:1: syntax error, unexpected end-of-input
#=> ""
p result2
#=> nil
__END__
def

```

#6 - 07/30/2018 01:23 AM - nobu (Nobuyoshi Nakada)

mtsmfm (Fumiaki Matsushima) wrote:

```

#=> /tmp/20180729-457-smihk6:1: warning: ambiguous first argument; put parentheses or a space even after `
/' operator

```

This warning dispatches on `_arg_ambiguous` method.

- How can I get the range of code instead of `lineno` and `column` only?

No way right now.

I think you can propose new methods for them.

```

#=> /tmp/20180729-461-1wcbfr4:1: syntax error, unexpected end-of-input

```

It dispatches on `_parse_error` method.

#7 - 08/06/2018 06:27 PM - mtmfm (Fumiaki Matsushima)

This warning dispatches on `_arg_ambiguous` method.

It dispatches on `_parse_error` method.

How can I find the list of all events for warning and compile error?

When should I use `compile_error`?

https://docs.ruby-lang.org/en/2.5.0/Ripper.html#method-i-compile_error

I think you can propose new methods for them.

You meant adding new methods to Ripper, right?

If Ripper can have `first_lineno`, `last_lineno`, `first_column` and `last_column`, it's enough for me for now.