

# erbを偲んで

愚痴と謝罪

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# 重要なことを先に

- 先に

# 重要

- 初刷まだ買えます



# Who is translating it?

- 英語版はまだ買えません



# 私について

- 今日はtoRubyの方から
  - 西那須野公民館まで約100km
  - toRuby7月増刊号は7/12(土)!

<%=h ... %>

- 代表作
- Erubisの中の人も絶賛

# 今日はちょっと愚痴りたい

- MVCわかんない
  - 以前のトークスをリサイクル
- 1.8.7での失敗に関する言い訳

# オブジェクト倶楽部2006夏

## ●●● ERB Revealed.

そろそろ技術系エンターテイメントは  
いかなものか

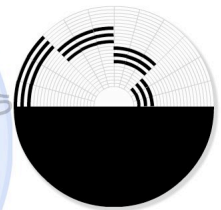
## ●●● 重要

- 昨夏発売!
- まだ初版買えます!



## ●●● 実行環境+テンプレート

- ベンハムのコマ
- うまいことをいう
- > gotoken



## ●●● ERBとは

- Rubyを文書に埋め込む
- 文書が主
- html専用じゃない

## ●●● tDiary

- BR世代のキラーアプリ
- ERB wayを具現



## ●●● もう一度

- Viewはテンプレートじゃない
- View Objectだよ
- 実行環境とテンプレート
- ERB way





# ERB Revealed.

**RECYCLED**

# ○ ● ● 私は違うがそうらしい

- 世界中のプログラマはWebベース帳票システムを書いてビジネスを加速させている

○ らしい

# ● ● ● MVC復興期

- Webアプリに普通の人が入る
- フレームワークをMVCで解説
- ふうふうの人から普通の人へ

# MVCなモデル

- 原理主義者にとってはSmalltalkのアレ
- 広くとらえるならそこから中に在るもの
  - オブジェクト群の相対的な関係

# ● ● ● 普通のView

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- Model-Controllerよくわからん
- View想像しやすい
- Viewとは

# ○ ● ● Viewとは

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- テンプレートのことであるらしい
  - ERB / JSP / ASP

# ●●● テンプレートこそ全て

● PH(ry)

# ○ ● ● 分業はすばらしい

- デザイナとプログラマに分けよ。
- え? Agile方面としてはどうよ?
- 連絡コスト高いし
- てゆかそううまく切れるの?





**えー**



**本当？**

# 協業すれば

- いいのにね



# GUI

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- GUIとWeb UIとなにか違うの？
- GUIの黒歴史に学ぶ
- 忘れてたけど私はGUI15年

# ○●● コードだけでやる

- はじまり
- 座標とか色とか書くのめんどう
- いつものコードとは異質なモノ

# ○●● やっでられぬい

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- 部品の記述をコードの外へ
- 書きやすい記法・配置
- テンプレートと言い換えてみる

# ○ ● ● コード+テンプレート

- MacOS Toolbox + RSRC
- Motif + UIL
- X11/Xt + X resource
- Cocoa + IB

# ● ● ● 二つの世界

- コードとテンプレート
- お互いを意識して繋いでる
- 単体では存在できない
- htmlとcssもちょっと似てる

# ○ ● ● Viewとは

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- View Objectだよ
- 実行環境+テンプレート

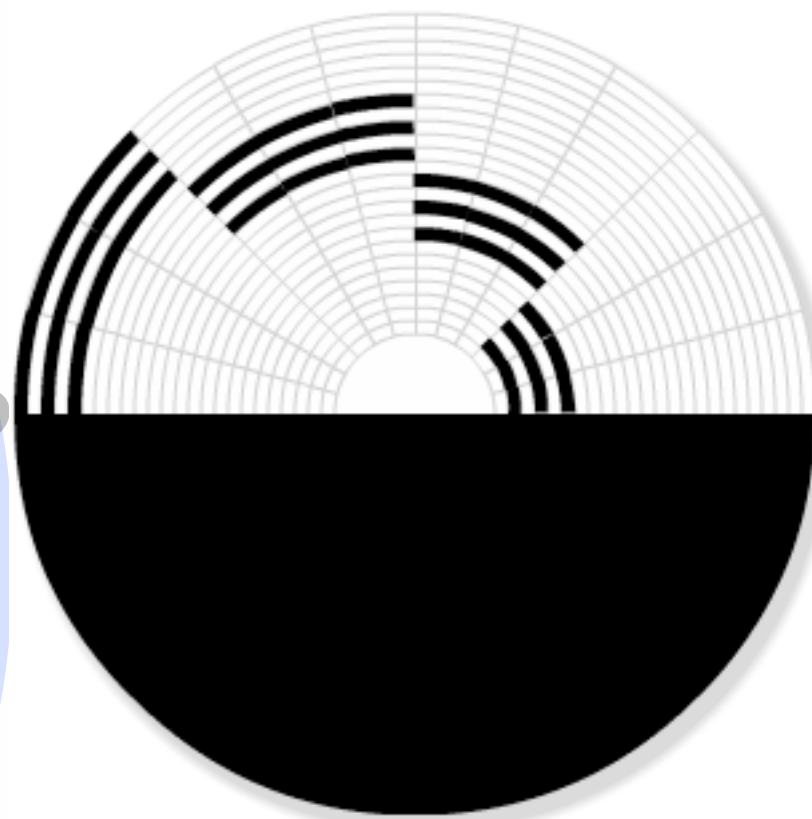


# ●●● 実行環境+テンプレート

● ベンハムのコマ

○ うまいことをいう

○ > gotoken



# ○●● 書きやすいから

- そう書くのが楽だから使う
- 分業するためじゃない

# ○ ● ● ERBとは

---

- Rubyを文書に埋め込む
- 文書が主
- html専用じゃない

# Hello, World.

```
puts "Hello, World."
```

# Hello, World.

```
Hello, World.
```

# 99 Bottles of Beer

- 予習してきましたか?
- マザーグースの詩を出力する遊び

# 99 Bottles of Beer

99 bottles of beer on the wall, 99 bottles of beer.  
Take one down and pass it around, 98 bottles of beer on the wall.

98 bottles of beer on the wall, 98 bottles of beer.  
Take one down and pass it around, 97 bottles of beer on the wall.

97 bottles of beer on the wall, 97 bottles of beer.  
Take one down and pass it around, 96 bottles of beer on the wall.

...

2 bottles of beer on the wall, 2 bottles of beer.  
Take one down and pass it around, 1 bottle of beer on the wall.

1 bottle of beer on the wall, 1 bottle of beer.  
Go to the store and buy some more, 99 bottles of beer on the wall.

# 99 Bottles of Beer

```
puts "99 bottles of beer on the wall, 99 bottles of beer."  
98.downto(2) do |i|  
  puts "Take one down and pass it around, #{i} bottles of beer on the wall."  
  puts  
  puts "#{i} bottles of beer on the wall, #{i} bottles of beer."  
end  
puts "Take one down and pass it around, 1 bottle of beer on the wall."  
puts  
puts "1 bottle of beer on the wall, 1 bottle of beer."  
puts "Go to the store and buy some more, 99 bottles of beer on the wall."
```



# 99 Bottles of Beer

```
99 bottles of beer on the wall, 99 bottles of beer.
```

```
<%- 98.downto(2) do |i| -%>
```

```
Take one down and pass it around, <%= i %> bottles of beer on the wall.
```

```
<%= i %> bottles of beer on the wall, <%= i %> bottles of beer.
```

```
<%- end -%>
```

```
Take one down and pass it around, 1 bottle of beer on the wall.
```

```
1 bottle of beer on the wall, 1 bottle of beer.
```

```
Go to the store and buy some more, 99 bottles of beer on the wall.
```

<%- -%>

- はじめて使ったけど99bottlesにはいいね
- こんな仕様忘れてた
- Rails偉い

# ○ ● ● ERB way

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- Rubyを文書に埋め込み
- ERBをアプリに埋め込む
  - 再びコードが主
  - テンプレートだけで使わない
  - 使えなくもないけど

```
require 'erb'
```

```
S = <<EOS
```

```
<%- beer = Beer[size] -%>
```

```
<%=beer%> on the wall, <%=beer%>.
```

```
<%- while beer = beer.take -%>
```

```
Take one down and pass it around, <%=beer%> on the wall.
```

```
<%=beer%> on the wall, <%=beer%>.
```

```
<%- end -%>
```

```
Go to the store and buy some more, <%=Beer[size]%> on the wall.
```

```
EOS
```

```
class Beer
```

```
  def initialize(n); @n = n; end
```

```
  def to_s; "#{@n} bottles of beer"; end
```

```
  def take; Beer[@n-1]; end
```

```
  class One < Beer
```

```
    def to_s; "1 bottle of beer"; end
```

```
  end
```

```
  def self.[](n)
```

```
    return nil if n <= 0
```

```
    (n == 1) ? One.new(1) : Beer.new(n)
```

```
  end
```

```
  def self.sing(size)
```

```
    ERB.new(S, nil, '-').result(binding)
```

```
  end
```

```
end
```

```
puts Beer.sing(99)
```

```
require 'erb'
```

```
S = <<EOS
```

```
<%- beer = Beer[size] -%>
```

```
<%=beer%> on the wall, <%=beer%>.
```

```
<%- while beer = beer.take -%>
```

```
Take one down and pass it around, <%=beer%> on the wall.
```

```
<%=beer%> on the wall, <%=beer%>.
```

```
<%- end -%>
```

```
Go to the store and buy some more, <%=Beer[size]%> on the wall.
```

```
EOS
```

```
class Beer
```

```
  def initialize(n); @n = n; end
```

```
  def to_s; "#{@n} bottles of beer"; end
```

```
  def take; Beer[@n-1]; end
```

```
  class One < Beer
```

```
    def to_s; "1 bottle of beer"; end
```

```
  end
```

```
  def self.[](n)
```

```
    return nil if n <= 0
```

```
    (n == 1) ? One.new(1) : Beer.new(n)
```

```
  end
```

```
  def self.sing(size)
```

```
    ERB.new(S, nil, '-').result(binding)
```

```
  end
```

```
end
```

```
puts Beer.sing(99)
```

# method

```
def self.sing(size)
  ERB.new(S, nil, '-').result(binding)
end
```

```
ERB.new(S, nil, '-').def_method(self, "self.sing(size)")
```

# ○ ● ● ERB way, more

- HTMLでなくHTML片を返す
  - 壊れたHTMLを許す
  - メソッド化でERBの入れ子
- レンダリングの最後だけじゃない

# ○ ● ● ERB on Rails

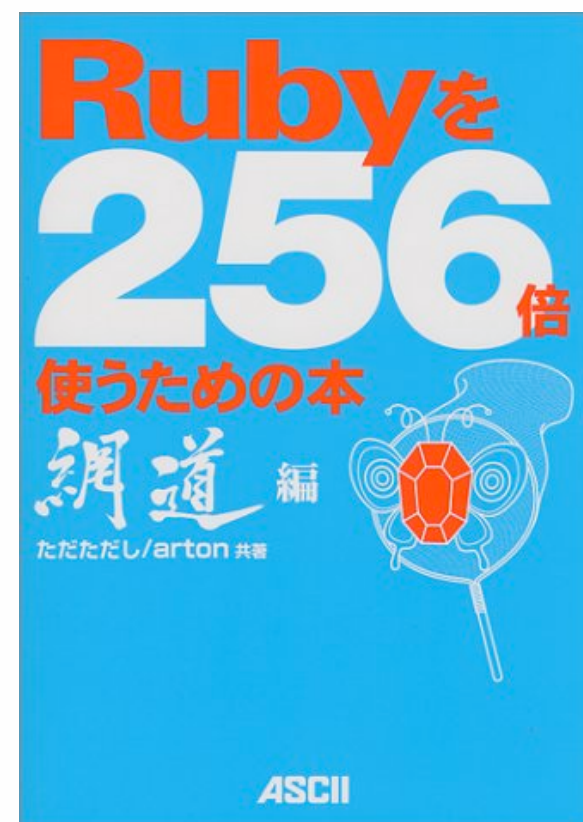
---

- フレームワークの一部として
- Rails様々
- dRubyも使ってる



# ○ ● ● tDiary

- BR世代のキラアプリ
- ERB wayを具現



# ただただし/arton共著

- ジュンク堂RubyKaigi支店



# ○ ● ● RWiki, Div&Tofu

- BR世代の自画自賛系
- さっぱりブームはこない

# ● ● ● もう一度

---

- Viewはテンプレートじゃない
- View Objectだよ
- 実行環境とテンプレート
- ERB way



# 重要

● まだ初刷買えます!



**One more thing...**

# 言いにくいことは最後に

- [ruby-core:17033] Ruby 1.8.7: ERB is broken
  - ごめんなさい
  - strscanがない状況でのテスト抜け..

# 言い訳

- eRuby→Ruby変換速度改善の失敗
- RK07のid: kwatchさんの発表に釣られた



# なにをしたか

- 従来は行ごとに分けて処理してた
- トークンに出会うまでまとめて扱う
  - 複数行を一度に処理できた場合に効く
- あとは飽きちゃった...
  - てゆか細かい工夫とか苦手...

# 実行時間

- eRuby→Rubyへの変換にかかる時間
- そのRubyスクリプトの実行時間
- メソッド化した場合の実行時間

```
require 'benchmark'  
require 'erb'  
require 'yaml'
```

```
script = File.read('erubybench.erb')  
context = YAML.load_file('erubybench.yaml')  
list = context['list']
```

```
count = 1000  
Benchmark.bm(20) do |x|  
  x.report('ERB.new') {  
    count.times {  
      ERB.new(script)  
    }  
  }  
}
```

```
erb = ERB.new(script)  
x.report('erb.result') {  
  count.times {  
    erb.result  
  }  
}
```

```
erb.def_method(Kernel, 'erb_bench(list)')  
x.report('def_method') {  
  count.times {  
    erb_bench(list)  
  }  
}  
end
```

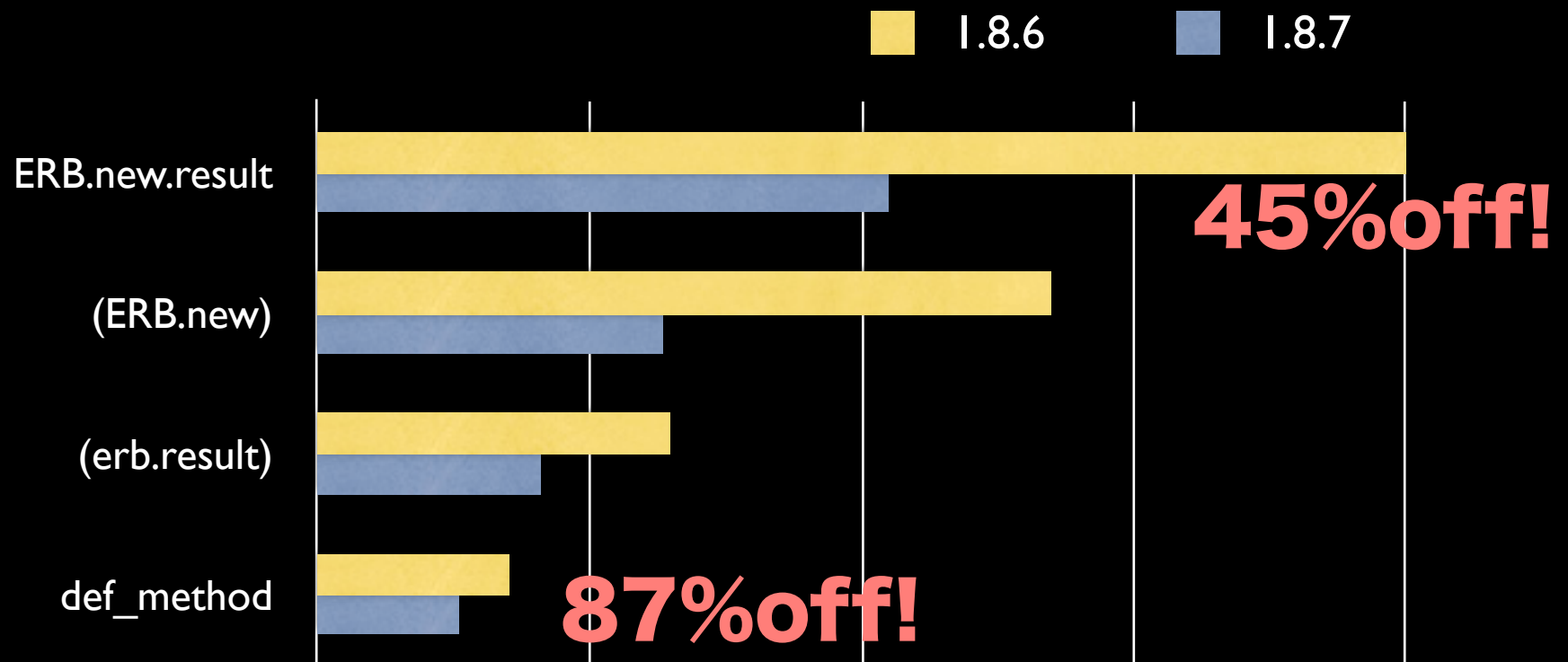
1000回やるよ

メソッド化した処理にかかる  
時間

# elapsed time

	ruby-1.8.6	ruby-1.8.7
ERB.new.result	4.69	2.46
(ERB.new)	3.16	1.49
(erb.result)	1.53	0.97
def_method	0.83	0.62

# elapsed time



# 速度

- ERB.newだと2倍くらい
- resultやdef\_methodも多少
  - いつでもメソッド化すべき

# Railsは速くなるか?

- “Ruby on Rails ではたしかに View 層に時間がかかりますが、View 層が遅い原因は ERB ではなくヘルパー関数だったわけです。” - RubyistMagazine002 I
  - 釣られた!?

# てゆかこれって

- 定数な行が連続するほど旧版が遅い?
- ということは...



# テストデータの工夫

- 変換されない行をたくさん書こう!
- 任意の改善比が出せるぞ

# 99 Bottles of Beer

99 bottles of beer on the wall, 99 bottles of beer.  
Take one down and pass it around, 98 bottles of beer on the wall.

98 bottles of beer on the wall, 98 bottles of beer.  
Take one down and pass it around, 97 bottles of beer on the wall.

97 bottles of beer on the wall, 97 bottles of beer.  
Take one down and pass it around, 96 bottles of beer on the wall.

96 bottles of beer on the wall, 96 bottles of beer.  
Take one down and pass it around, 95 bottles of beer on the wall.

95 bottles of beer on the wall, 95 bottles of beer.  
Take one down and pass it around, 94 bottles of beer on the wall.

94 bottles of beer on the wall, 94 bottles of beer.  
Take one down and pass it around, 93 bottles of beer on the wall.

93 bottles of beer on the wall, 93 bottles of beer.  
Take one down and pass it around, 92 bottles of beer on the wall.

92 bottles of beer on the wall, 92 bottles of beer.  
Take one down and pass it around, 91 bottles of beer on the wall.

92 bottles of beer on the wall, 92 bottles of beer.  
Take one down and pass it around, 91 bottles of beer on the wall.

91 bottles of beer on the wall, 91 bottles of beer.  
Take one down and pass it around, 90 bottles of beer on the wall.

90 bottles of beer on the wall, 90 bottles of beer.  
Take one down and pass it around, 89 bottles of beer on the wall.

89 bottles of beer on the wall, 89 bottles of beer.  
Take one down and pass it around, 88 bottles of beer on the wall.

88 bottles of beer on the wall, 88 bottles of beer.  
Take one down and pass it around, 87 bottles of beer on the wall.

87 bottles of beer on the wall, 87 bottles of beer.  
Take one down and pass it around, 86 bottles of beer on the wall.

86 bottles of beer on the wall, 86 bottles of beer.  
Take one down and pass it around, 85 bottles of beer on the wall.

85 bottles of beer on the wall, 85 bottles of beer.  
Take one down and pass it around, 84 bottles of beer on the wall.

84 bottles of beer on the wall, 84 bottles of beer.  
Take one down and pass it around, 83 bottles of beer on the wall.

83 bottles of beer on the wall, 83 bottles of beer.  
Take one down and pass it around, 82 bottles of beer on the wall.

82 bottles of beer on the wall, 82 bottles of beer.  
Take one down and pass it around, 81 bottles of beer on the wall.

81 bottles of beer on the wall, 81 bottles of beer.  
Take one down and pass it around, 80 bottles of beer on the wall.

80 bottles of beer on the wall, 80 bottles of beer.  
Take one down and pass it around, 79 bottles of beer on the wall.

79 bottles of beer on the wall, 79 bottles of beer.  
Take one down and pass it around, 78 bottles of beer on the wall.

78 bottles of beer on the wall, 78 bottles of beer.  
Take one down and pass it around, 77 bottles of beer on the wall.

77 bottles of beer on the wall, 77 bottles of beer.  
Take one down and pass it around, 76 bottles of beer on the wall.

76 bottles of beer on the wall, 76 bottles of beer.  
Take one down and pass it around, 75 bottles of beer on the wall.

75 bottles of beer on the wall, 75 bottles of beer.  
Take one down and pass it around, 74 bottles of beer on the wall.

74 bottles of beer on the wall, 74 bottles of beer.  
Take one down and pass it around, 73 bottles of beer on the wall.

73 bottles of beer on the wall, 73 bottles of beer.  
Take one down and pass it around, 72 bottles of beer on the wall.

72 bottles of beer on the wall, 72 bottles of beer.  
Take one down and pass it around, 71 bottles of beer on the wall.

71 bottles of beer on the wall, 71 bottles of beer.  
Take one down and pass it around, 70 bottles of beer on the wall.

70 bottles of beer on the wall, 70 bottles of beer.  
Take one down and pass it around, 69 bottles of beer on the wall.

69 bottles of beer on the wall, 69 bottles of beer.  
Take one down and pass it around, 68 bottles of beer on the wall.

68 bottles of beer on the wall, 68 bottles of beer.  
Take one down and pass it around, 67 bottles of beer on the wall.

67 bottles of beer on the wall, 67 bottles of beer.  
Take one down and pass it around, 66 bottles of beer on the wall.

66 bottles of beer on the wall, 66 bottles of beer.  
Take one down and pass it around, 65 bottles of beer on the wall.

65 bottles of beer on the wall, 65 bottles of beer.  
Take one down and pass it around, 64 bottles of beer on the wall.

64 bottles of beer on the wall, 64 bottles of beer.  
Take one down and pass it around, 63 bottles of beer on the wall.

63 bottles of beer on the wall, 63 bottles of beer.  
Take one down and pass it around, 62 bottles of beer on the wall.

62 bottles of beer on the wall, 62 bottles of beer.  
Take one down and pass it around, 61 bottles of beer on the wall.

61 bottles of beer on the wall, 61 bottles of beer.  
Take one down and pass it around, 60 bottles of beer on the wall.

60 bottles of beer on the wall, 60 bottles of beer.  
Take one down and pass it around, 59 bottles of beer on the wall.

59 bottles of beer on the wall, 59 bottles of beer.  
Take one down and pass it around, 58 bottles of beer on the wall.

58 bottles of beer on the wall, 58 bottles of beer.  
Take one down and pass it around, 57 bottles of beer on the wall.

57 bottles of beer on the wall, 57 bottles of beer.  
Take one down and pass it around, 56 bottles of beer on the wall.

56 bottles of beer on the wall, 56 bottles of beer.  
Take one down and pass it around, 55 bottles of beer on the wall.

55 bottles of beer on the wall, 55 bottles of beer.  
Take one down and pass it around, 54 bottles of beer on the wall.

54 bottles of beer on the wall, 54 bottles of beer.  
Take one down and pass it around, 53 bottles of beer on the wall.

53 bottles of beer on the wall, 53 bottles of beer.  
Take one down and pass it around, 52 bottles of beer on the wall.

52 bottles of beer on the wall, 52 bottles of beer.  
Take one down and pass it around, 51 bottles of beer on the wall.

51 bottles of beer on the wall, 51 bottles of beer.  
Take one down and pass it around, 50 bottles of beer on the wall.

50 bottles of beer on the wall, 50 bottles of beer.  
Take one down and pass it around, 49 bottles of beer on the wall.

49 bottles of beer on the wall, 49 bottles of beer.  
Take one down and pass it around, 48 bottles of beer on the wall.

48 bottles of beer on the wall, 48 bottles of beer.  
Take one down and pass it around, 47 bottles of beer on the wall.

47 bottles of beer on the wall, 47 bottles of beer.  
Take one down and pass it around, 46 bottles of beer on the wall.

46 bottles of beer on the wall, 46 bottles of beer.  
Take one down and pass it around, 45 bottles of beer on the wall.

45 bottles of beer on the wall, 45 bottles of beer.  
Take one down and pass it around, 44 bottles of beer on the wall.

44 bottles of beer on the wall, 44 bottles of beer.  
Take one down and pass it around, 43 bottles of beer on the wall.

43 bottles of beer on the wall, 43 bottles of beer.  
Take one down and pass it around, 42 bottles of beer on the wall.

42 bottles of beer on the wall, 42 bottles of beer.  
Take one down and pass it around, 41 bottles of beer on the wall.

41 bottles of beer on the wall, 41 bottles of beer.  
Take one down and pass it around, 40 bottles of beer on the wall.

40 bottles of beer on the wall, 40 bottles of beer.  
Take one down and pass it around, 39 bottles of beer on the wall.

39 bottles of beer on the wall, 39 bottles of beer.  
Take one down and pass it around, 38 bottles of beer on the wall.

38 bottles of beer on the wall, 38 bottles of beer.  
Take one down and pass it around, 37 bottles of beer on the wall.

37 bottles of beer on the wall, 37 bottles of beer.  
Take one down and pass it around, 36 bottles of beer on the wall.

36 bottles of beer on the wall, 36 bottles of beer.  
Take one down and pass it around, 35 bottles of beer on the wall.

35 bottles of beer on the wall, 35 bottles of beer.  
Take one down and pass it around, 34 bottles of beer on the wall.

34 bottles of beer on the wall, 34 bottles of beer.  
Take one down and pass it around, 33 bottles of beer on the wall.

33 bottles of beer on the wall, 33 bottles of beer.  
Take one down and pass it around, 32 bottles of beer on the wall.



32 bottles of beer on the wall, 32 bottles of beer.  
Take one down and pass it around, 31 bottles of beer on the wall.

31 bottles of beer on the wall, 31 bottles of beer.  
Take one down and pass it around, 30 bottles of beer on the wall.

30 bottles of beer on the wall, 30 bottles of beer.  
Take one down and pass it around, 29 bottles of beer on the wall.

29 bottles of beer on the wall, 29 bottles of beer.  
Take one down and pass it around, 28 bottles of beer on the wall.

28 bottles of beer on the wall, 28 bottles of beer.  
Take one down and pass it around, 27 bottles of beer on the wall.

27 bottles of beer on the wall, 27 bottles of beer.  
Take one down and pass it around, 26 bottles of beer on the wall.

26 bottles of beer on the wall, 26 bottles of beer.  
Take one down and pass it around, 25 bottles of beer on the wall.

25 bottles of beer on the wall, 25 bottles of beer.  
Take one down and pass it around, 24 bottles of beer on the wall.

24 bottles of beer on the wall, 24 bottles of beer.  
Take one down and pass it around, 23 bottles of beer on the wall.

23 bottles of beer on the wall, 23 bottles of beer.  
Take one down and pass it around, 22 bottles of beer on the wall.

22 bottles of beer on the wall, 22 bottles of beer.  
Take one down and pass it around, 21 bottles of beer on the wall.

21 bottles of beer on the wall, 21 bottles of beer.  
Take one down and pass it around, 20 bottles of beer on the wall.

20 bottles of beer on the wall, 20 bottles of beer.  
Take one down and pass it around, 19 bottles of beer on the wall.

19 bottles of beer on the wall, 19 bottles of beer.  
Take one down and pass it around, 18 bottles of beer on the wall.

18 bottles of beer on the wall, 18 bottles of beer.  
Take one down and pass it around, 17 bottles of beer on the wall.

17 bottles of beer on the wall, 17 bottles of beer.  
Take one down and pass it around, 16 bottles of beer on the wall.

16 bottles of beer on the wall, 16 bottles of beer.  
Take one down and pass it around, 15 bottles of beer on the wall.

15 bottles of beer on the wall, 15 bottles of beer.  
Take one down and pass it around, 14 bottles of beer on the wall.

14 bottles of beer on the wall, 14 bottles of beer.  
Take one down and pass it around, 13 bottles of beer on the wall.

13 bottles of beer on the wall, 13 bottles of beer.  
Take one down and pass it around, 12 bottles of beer on the wall.

12 bottles of beer on the wall, 12 bottles of beer.  
Take one down and pass it around, 11 bottles of beer on the wall.

11 bottles of beer on the wall, 11 bottles of beer.  
Take one down and pass it around, 10 bottles of beer on the wall.

10 bottles of beer on the wall, 10 bottles of beer.  
Take one down and pass it around, 9 bottles of beer on the wall.

9 bottles of beer on the wall, 9 bottles of beer.  
Take one down and pass it around, 8 bottles of beer on the wall.

8 bottles of beer on the wall, 8 bottles of beer.  
Take one down and pass it around, 7 bottles of beer on the wall.

7 bottles of beer on the wall, 7 bottles of beer.  
Take one down and pass it around, 6 bottles of beer on the wall.

6 bottles of beer on the wall, 6 bottles of beer.  
Take one down and pass it around, 5 bottles of beer on the wall.

5 bottles of beer on the wall, 5 bottles of beer.  
Take one down and pass it around, 4 bottles of beer on the wall.

4 bottles of beer on the wall, 4 bottles of beer.  
Take one down and pass it around, 3 bottles of beer on the wall.

3 bottles of beer on the wall, 3 bottles of beer.  
Take one down and pass it around, 2 bottles of beer on the wall.

# Go to the store and buy

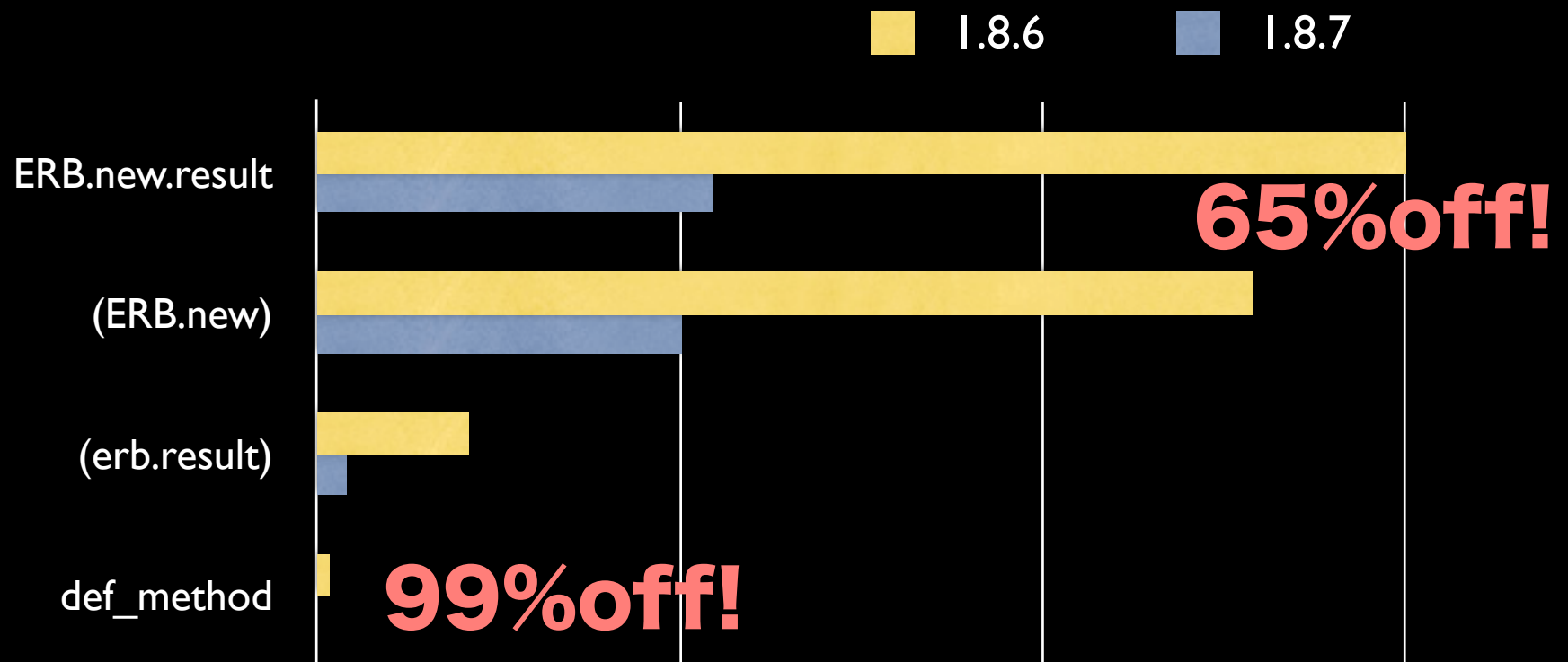
2 bottles of beer on the wall, 2 bottles of beer.

Take one down and pass it around, 1 bottle of beer on the wall.

1 bottle of beer on the wall, 1 bottle of beer.

Go to the store and buy some more, 99 bottles of beer on the wall.

# elapsed time



# knuさんごめんなさい

- そんなことをしているうちにstrscanがない環境でのテストを忘れてました..
- [ruby-core:17033] Ruby 1.8.7: ERB is broken

# まとめ

- 代表作は<%=h %>
- ViewはView Object
- スルー力重要