Boston.rb 2007.02.13 - G. Brown

Ruport

RUBY REPORTS

A quick look at the extensible reporting system for Ruby.

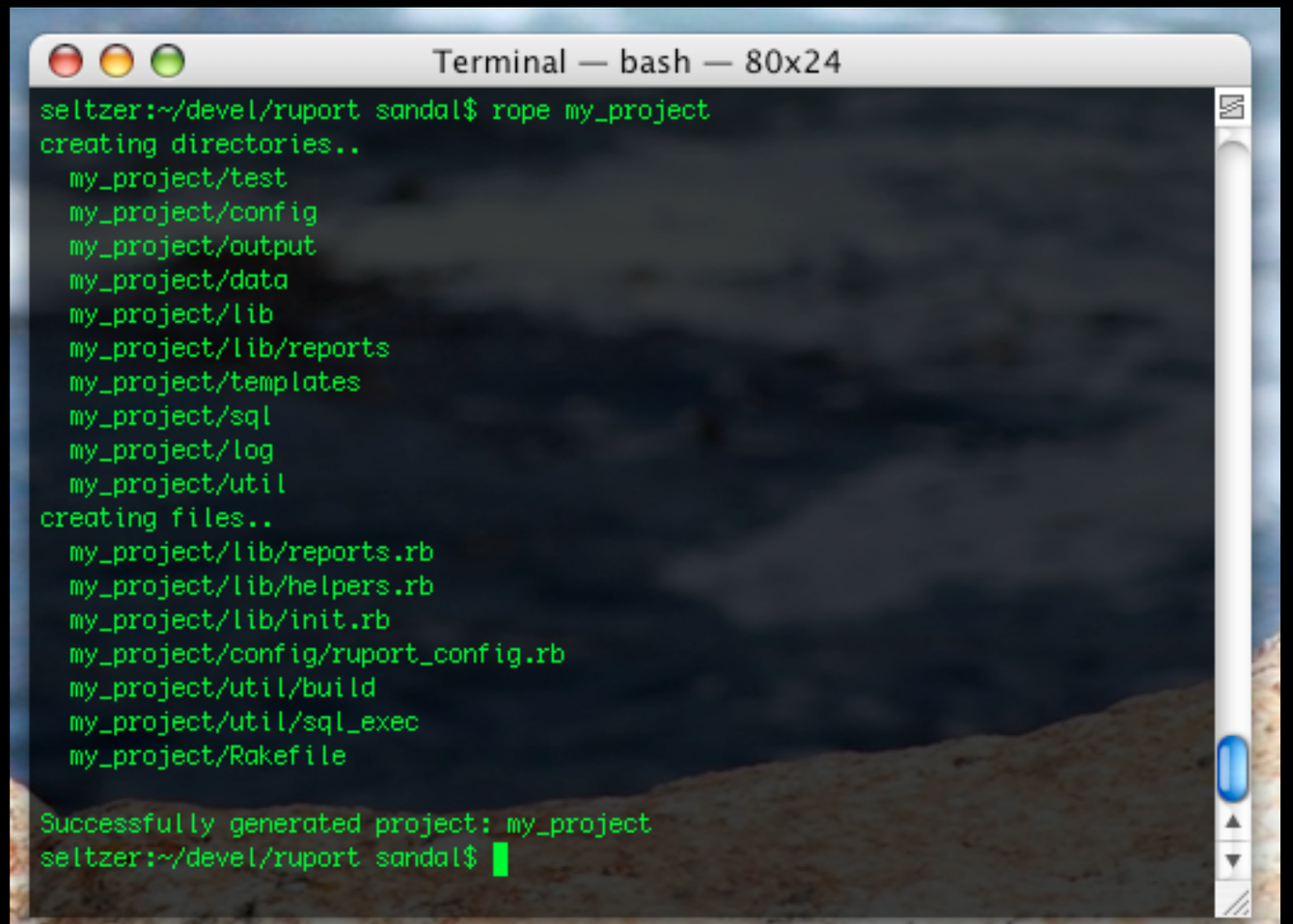
Reporting SUCKS

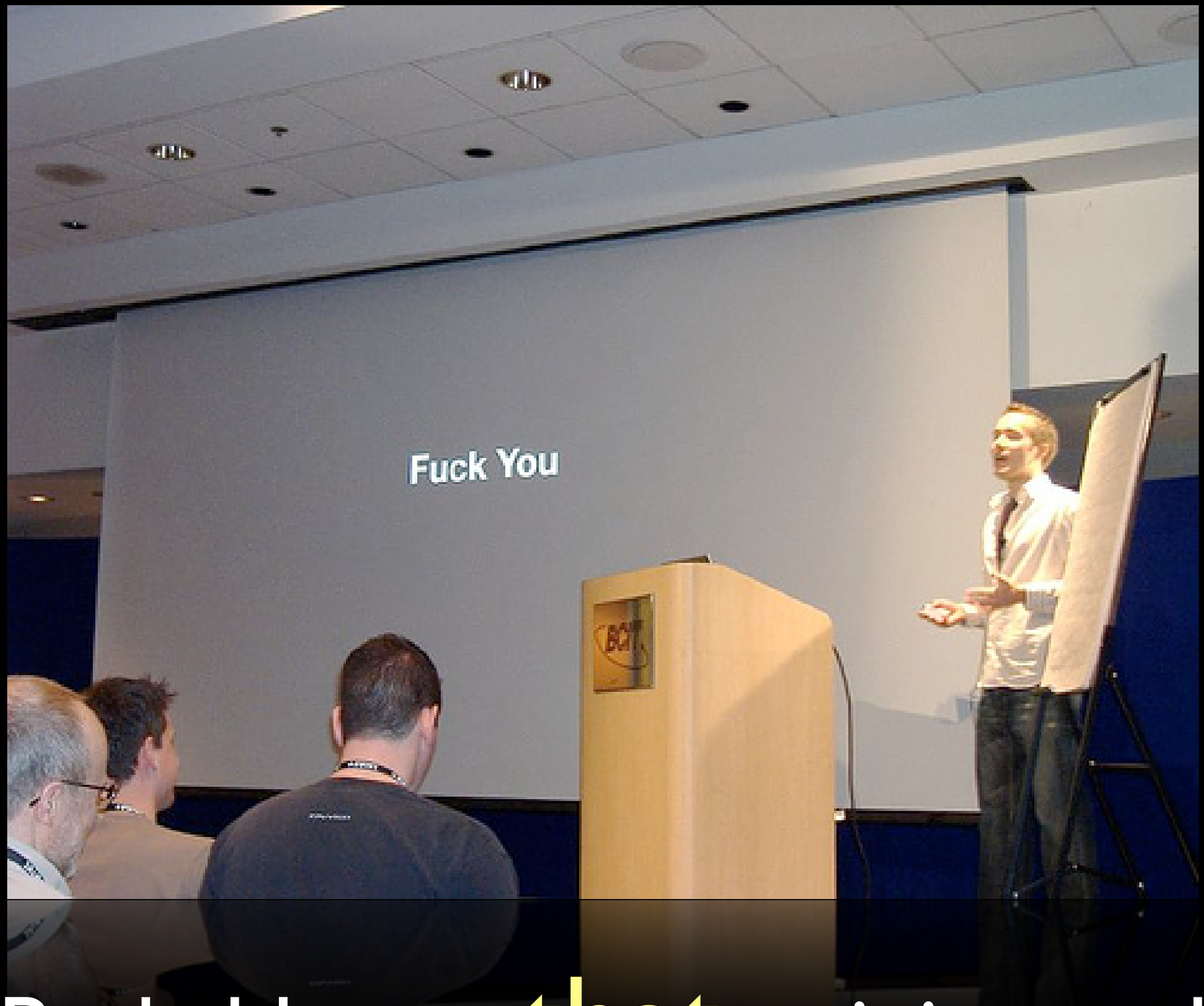
“Gee, I’m really looking forward to auditing those account balances today”

Ruby Reports can make it suck less.

Ruby

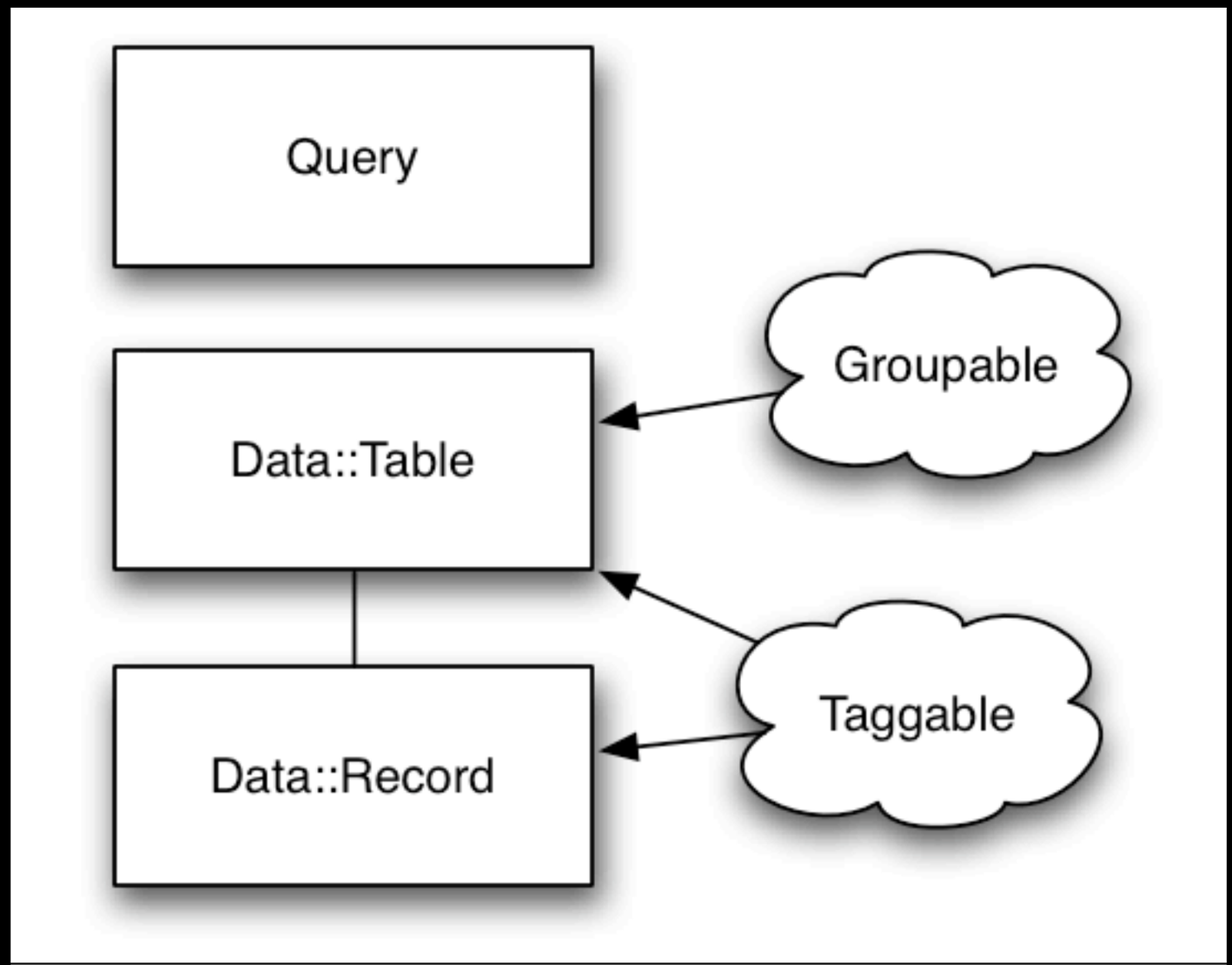
Ruport is opinionated software


Terminal — bash — 80x24
seltzer:~/devel/ruport sandal$ rope my_project
creating directories..
my_project/test
my_project/config
my_project/output
my_project/data
my_project/lib
my_project/lib/reports
my_project/templates
my_project/sql
my_project/log
my_project/util
creating files..
my_project/lib/reports.rb
my_project/lib/helpers.rb
my_project/lib/init.rb
my_project/config/ruport_config.rb
my_project/util/build
my_project/util/sql_exec
my_project/Rakefile
Successfully generated project: my_project
seltzer:~/devel/ruport sandal$



Probably not **that** opinionated

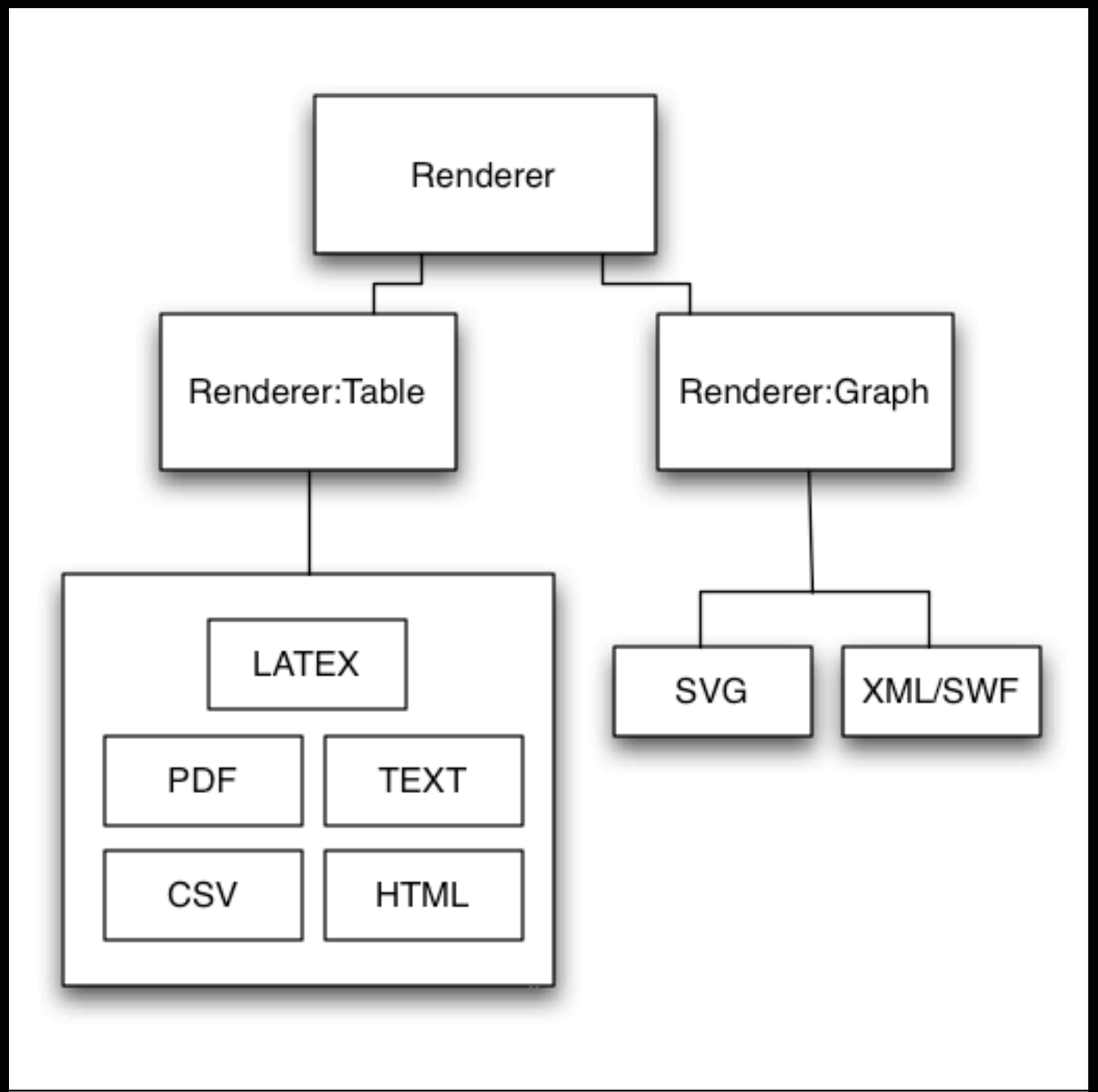
Ruport is SIMPLE sofware



Data Model

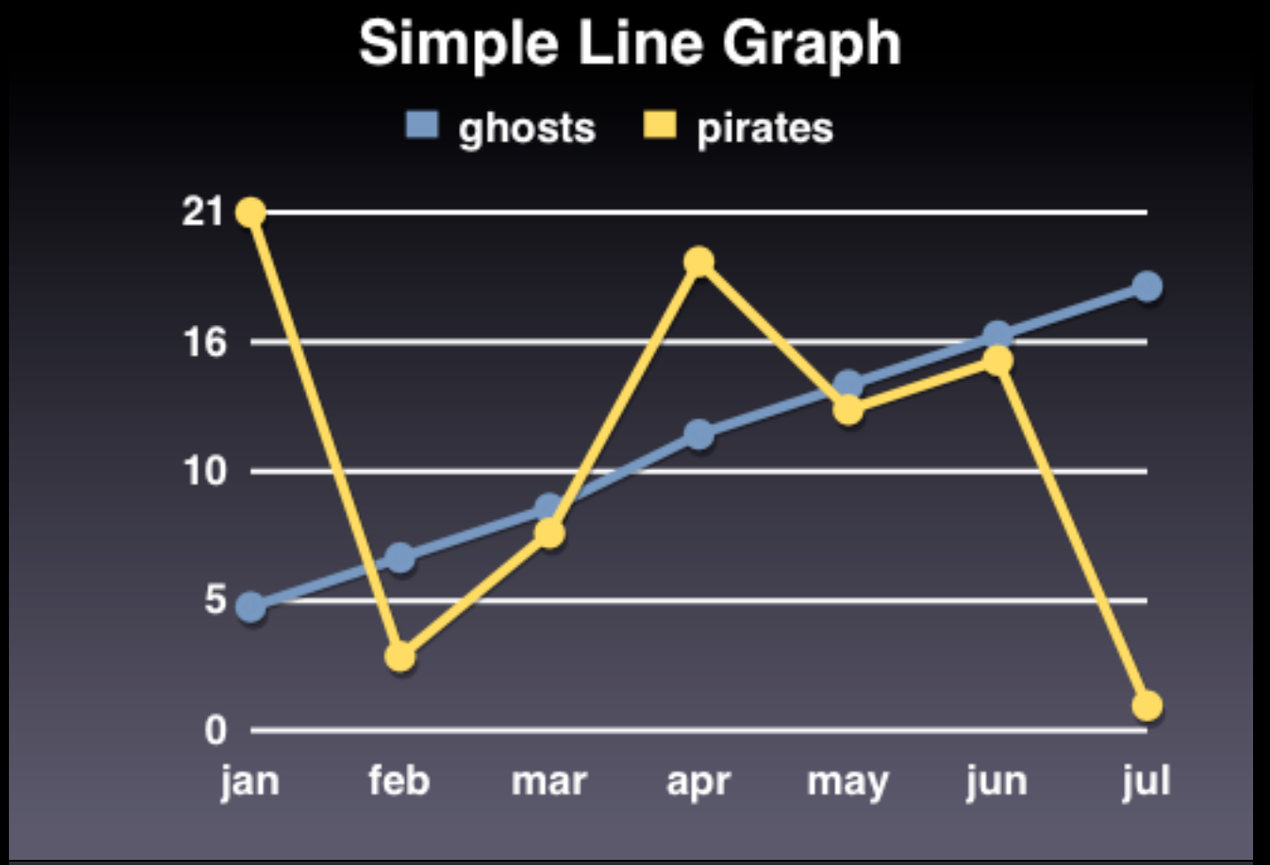
```ruby
require "rubygems"
require "ruport"

table = Table(%w[a b c first_name last_name]) { |t|
  t << [10,5,4,'gregory','brown'] # a + b + c = 19
  t << [11,13,2,'sam','jackson'] # a + b + c = 26
  t <<  { "a" => 3, "b" => 3, "c" => 2, # a + b + c = 8
          "first_name" => "joe", "last_name" => "loop" }
}

table.add_column("even?") { |r| ((r.a + r.b + r.c) % 2 ).zero? }

table.create_group("odd") { |r| not r.even? }
table.create_group("even") { |r| r.even? }

puts table.sub_table(%w[first_name last_name]).to_html
```

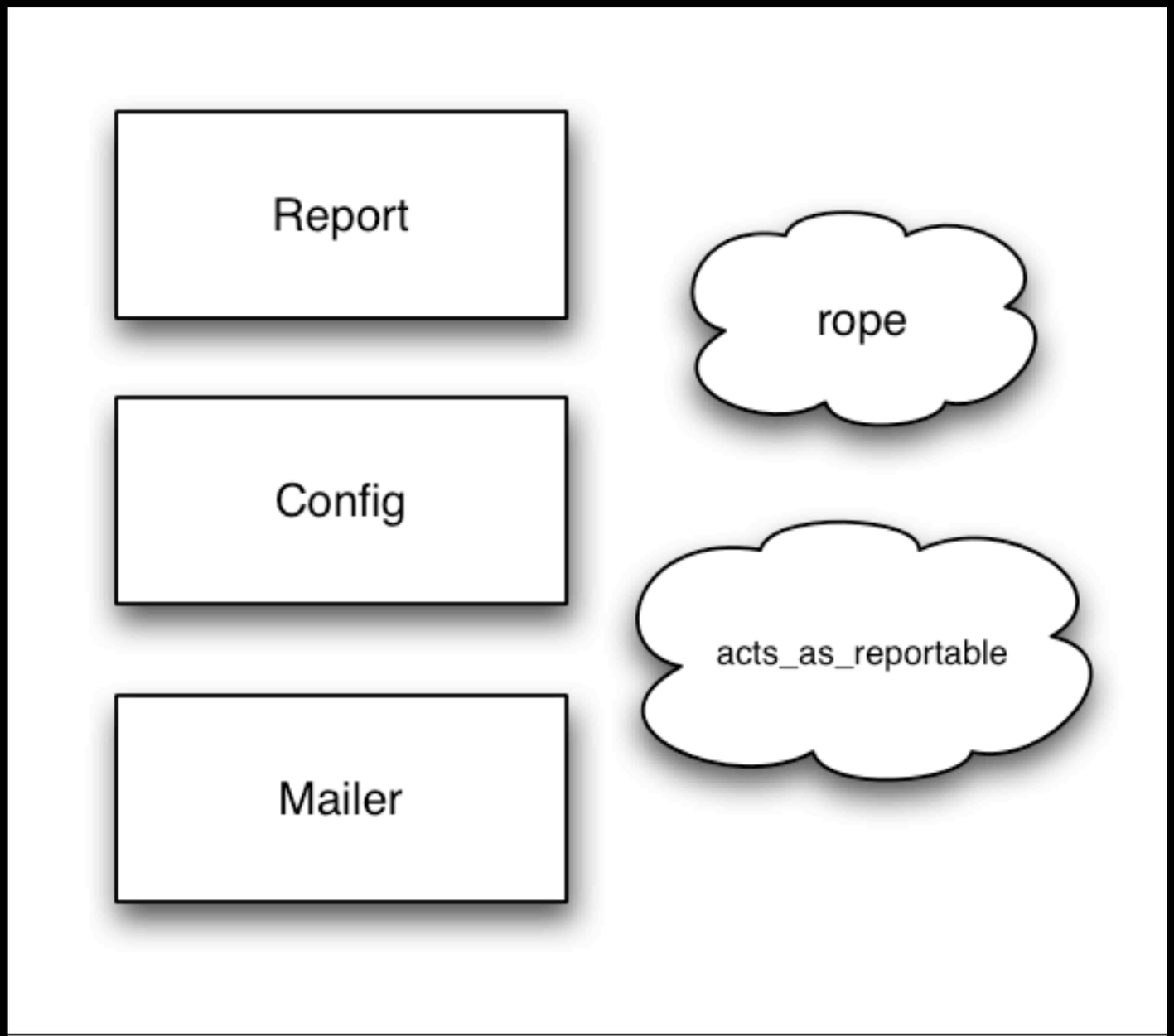
```
<table>
    <tr>
        <th>first_name</th>
        <th>last_name</th>
    </tr>
    <tr class='grp_odd'>
        <td class='grp_odd'>gregory</td>
        <td class='grp_odd'>brown</td>
    </tr>
    <tr class='grp_even'>
        <td class='grp_even'>sam</td>
        <td class='grp_even'>jackson</td>
    </tr>
    <tr class='grp_even'>
        <td class='grp_even'>joe</td>
        <td class='grp_even'>loop</td>
    </tr>
</table>
```



Formatting System

```ruby
require "ruport"
table = Table(%w[jan feb mar apr may jun jul]) do |t|
  t << [5,7,9,12,14,16,18]
  t << [21,3,8,19,13,15,1]
end

table[0].tag :ghosts
table[1].tag "pirates"

results = Ruport::Renderer::Graph.render_svg do |r|
  r.data = table

  r.options.title = "Simple Line Graph"

  r.layout do |l|
    l.width  = 700
    l.height = 500
    l.theme  = r.plugin.themes[:keynote]
    l.style  = :line
  end
end
```


Simple Line Graph
ghosts
pirates
21
16
10
5
0
jan
feb
mar
apr
may
jun
jul



Utilities / DSL

```
require "lib/init"
class Playlist < Ruport::Report

  def prepare
    t = load_csv "data/mix.txt", :csv_options => { :col_sep => "\t" }
    @table = t.sub_table(%w[Name Artist Album Time])
  end

  def generate
    @table.to_pdf
  end

end

if __FILE__ == $0
   Playlist.run { |res| res.write 'output/mix.pdf'}
end
```

Playlist from 2007-01-23

Name	Artist	Album	Time
We Didnât Start The Fire	Billy Joel	The Essential Billy Joel (Disc 2)	290
If You Want to Sing Out, Sing Out	Cat Stevens	Classics, Volume 24	167
Don't Let's Start	They Might Be Giants	Then: The Earlier Years	155
The Future Freaks Me Out	Motion City Soundtrack	I Am the Movie	216
Breakfast At Tiffany's	Deep Blue Something	Stealth Music Factory	251
I Palindrome I	They Might Be Giants	The Spine Hits the Road	147
Selfish Man	Flogging Molly	Swagger	176
XTC vs. Adam Ant	They Might Be Giants	Severe Tire Damage	219
Mad World	Gary Jules	(tears for fears cover)	189
New York City	They Might Be Giants	The Spine In Minneapolis	212
Hallelujah	John Cale	Scrubs Soundtrack	279
Daughters	John Mayer	Heavier Things	237
Boom Boom Boom	Vengaboys		202
Handbags and Gladrags	Rod Stewart	20th Century Masters - The Millennium Collection: The Best of Rod Stewart	264
Give Peace a Chance	John Lennon	Give Peace A Chance	281
World Leader Pretend	R.E.M.	Green	259
Under Pressure	David Bowie & Queen		241
It Ends Tonight	The All-American Rejects	Move Along	246
End of the Tour	They Might Be Giants	The Spine Hits the Road	208
It's The End Of The World As We Know It	REM	eponymous	244

However...

It will NOT build a blog in 15 minutes

We are YAGNI extremists.

We don't know what the hell Data Cubes are, and we don't want to know.

(only half joking...)

But if we're doing our job right, it shouldn't be hard to build them.

Ruport is a tool
for programmers.

Ruport is a tool
for ruby programmers.

All classes are extremely friendly to meta-hackery

Tons of modules
for decoupling
and collision avoidance

gem_plugin
for the hacks
that we're afraid of.

To sum it up...

Use Ruport if you want a simple, lightweight reporting system that will stay out of your way.

If you want
drag and drop AJAX,
let us know when
you've got something built.

[seriously :)]

mailing list:
http://list.rubyreports.org

wiki:
http://code.rubyreports.org

blog:
http://blog.rubyreports.org