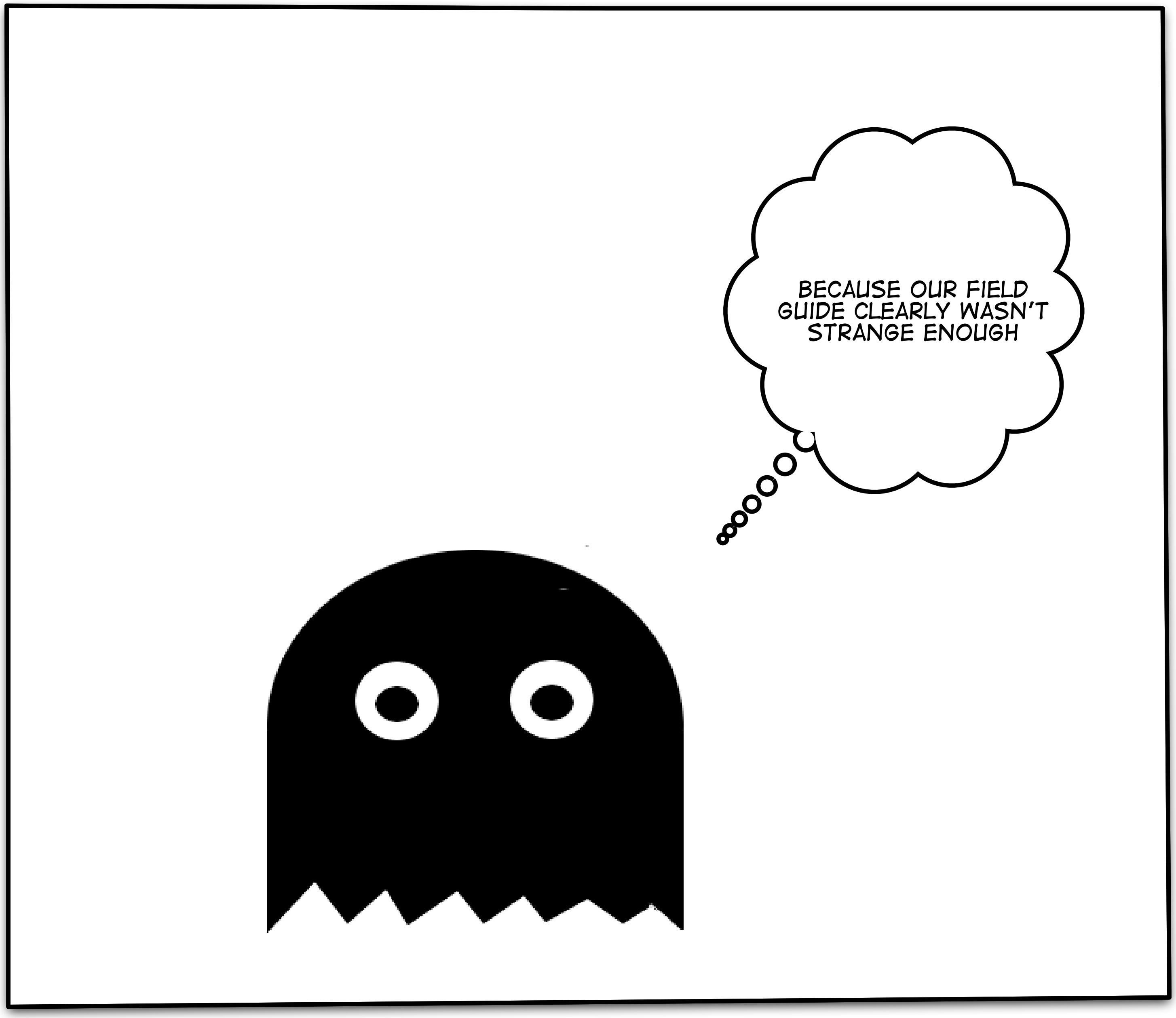
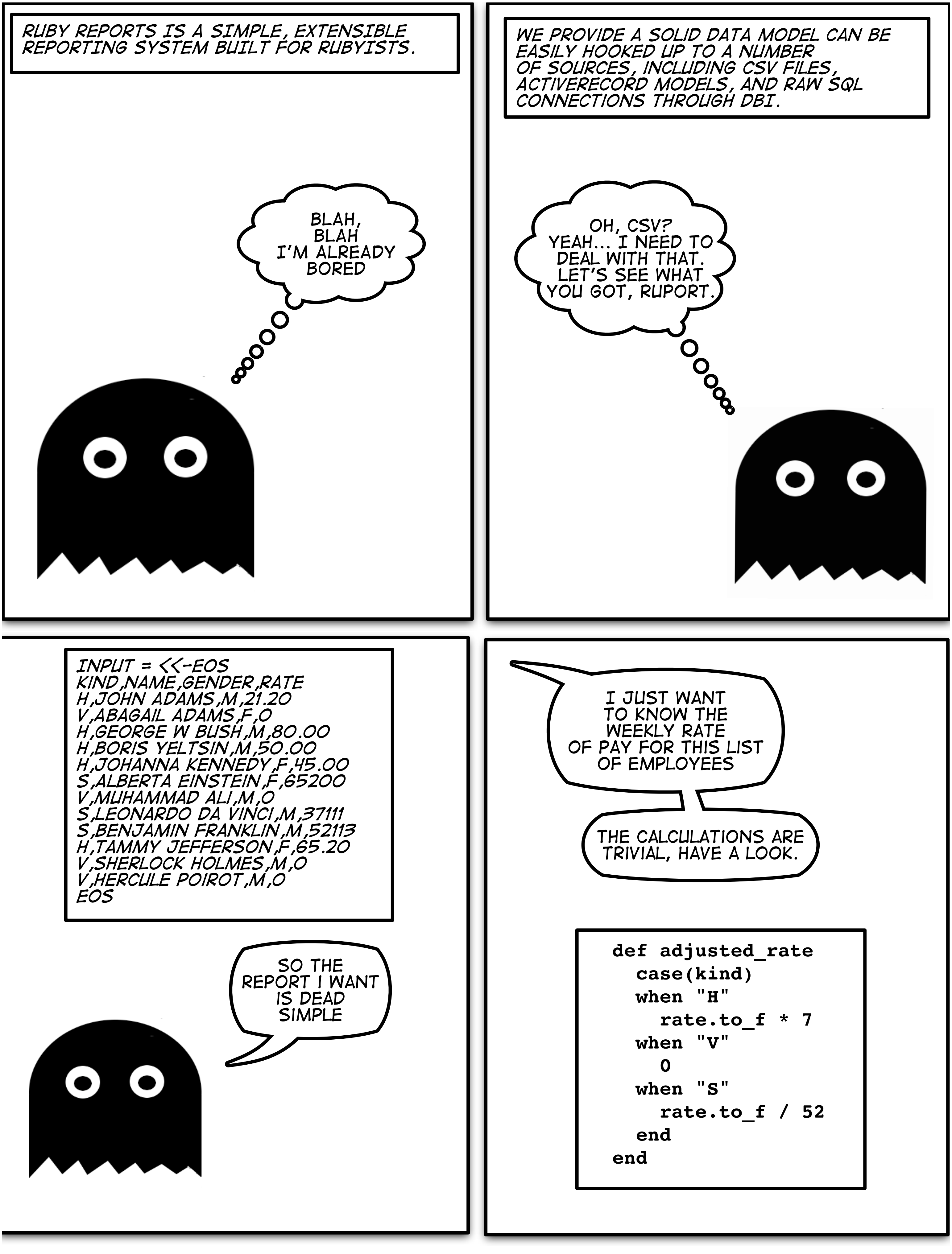
Ruport in 10 minutes





RUBY REPORTS IS A SIMPLE, EXTENSIBLE REPORTING SYSTEM BUILT FOR RUBYISTS.

BLAH, BLAH I'M ALREADY BORED

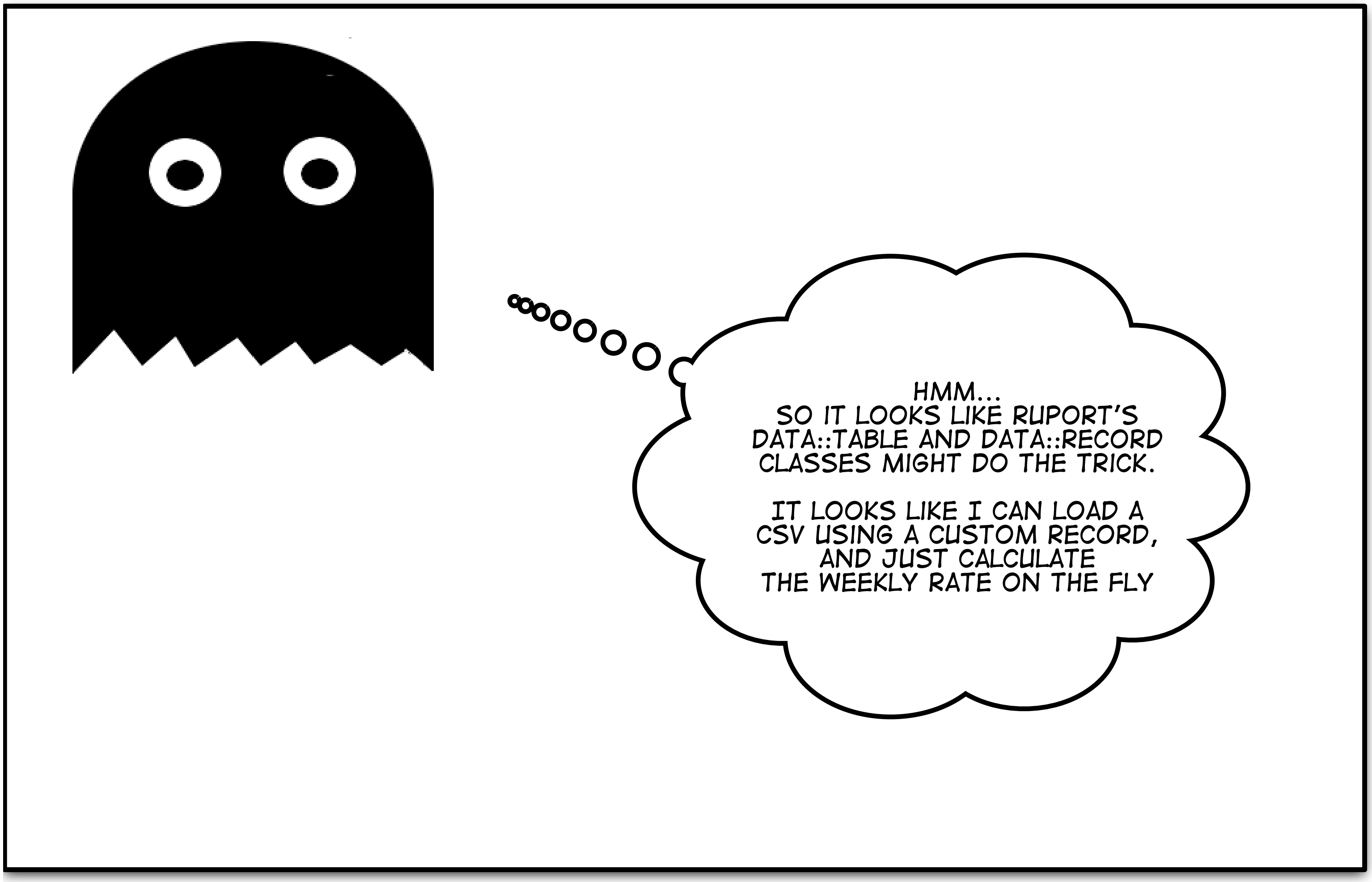
WE PROVIDE A SOLID DATA MODEL CAN BE EASILY HOOKED UP TO A NUMBER OF SOURCES, INCLUDING CSV FILES, ACTIVERECORD MODELS, AND RAW SQL CONNECTIONS THROUGH DBI.

OH, CSV? YEAH... I NEED TO DEAL WITH THAT. LET'S SEE WHAT YOU GOT, RUPORT.

```
INPUT = <<-EOS
KIND,NAME,GENDER,RATE
H,JOHN ADAMS,M,21.20
V,ABAGAIL ADAMS,F,0
H,GEORGE W BUSH,M,80.00
H,BORIS YELTSIN,M,50.00
H,JOHANNA KENNEDY,F,45.00
S,ALBERTA EINSTEIN,F,65200
V,MUHAMMAD ALI,M,0
S,LEONARDO DA VINCI,M,37111
S,BENJAMIN FRANKLIN,M,52113
H,TAMMY JEFFERSON,F,65.20
V,SHERLOCK HOLMES,M,0
V,HERCULE POIROT,M,0
EOS
```

SO THE REPORT I WANT IS DEAD SIMPLE
I JUST WANT TO KNOW THE WEEKLY RATE OF PAY FOR THIS LIST OF EMPLOYEES
THE CALCULATIONS ARE TRIVIAL, HAVE A LOOK.

```
def adjusted_rate
  case(kind)
  when "H"
    rate.to_f * 7
  when "V"
    0
  when "S"
    rate.to_f / 52
  end
end
```


HMM...
SO IT LOOKS LIKE RUPORT'S DATA::TABLE AND DATA::RECORD CLASSES MIGHT DO THE TRICK.

IT LOOKS LIKE I CAN LOAD A CSV USING A CUSTOM RECORD, AND JUST CALCULATE THE WEEKLY RATE ON THE FLY

```
require "rubygems"
require "ruport"

class Employee < Ruport::Data::Record
  def adjusted_rate
    case(kind)
    when "H"
      rate.to_f * 7
    when "V"
      0
    when "S"
      rate.to_f / 52
    end
  end
end

table = Table(:string => INPUT, :records => true,
              :record_class => Employee) do |s,r|
  r.rate = r.adjusted_rate
  s << r
end
```

WE ALSO PROVIDE AN INSANELY EASY TO EXTEND FORMATTING SYSTEM WHICH PROVIDES A CONSISTENT INTERFACE AS WELL AS A SET OF HELPER FUNCTIONS FOR A NUMBER OF OUTPUT TYPES (HTML,PDF,CSV, AND PLAIN TEXT).

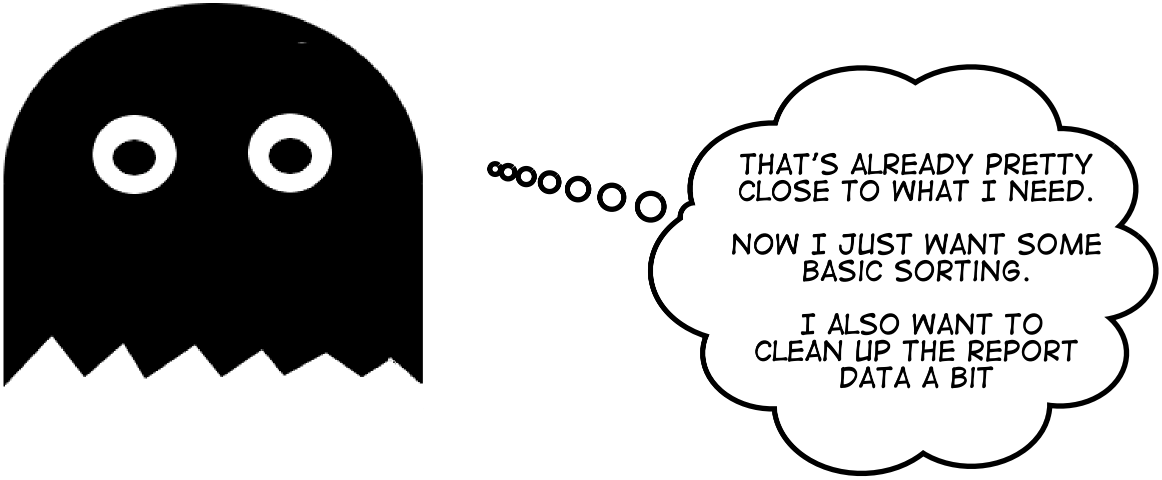
OKAY, THESE DEVELOPERS SERIOUSLY UNDERESTIMATE MY LAZINESS...
I'M JUST GOING TO TRY TO PRINT THE TABLE. IF THAT DOESN'T WORK I'M SO OUT OF HERE...

PROGRESS!

```
++++ ++++ +++++ +++++ +++++
+  + +    +       +     +
++++ ++++ +       +     +
+  +    + +       +     +
+  + ++++ +++++ +++++ +++++

=     =====  =     =  ======
=     =   =  =     =  =
=     =   =   =   =   ====
=     =   =    = =    =
===== =====     =     ======

          ------
         /       \
         |  o  o |
         |       |
         \/\/\/\/
```

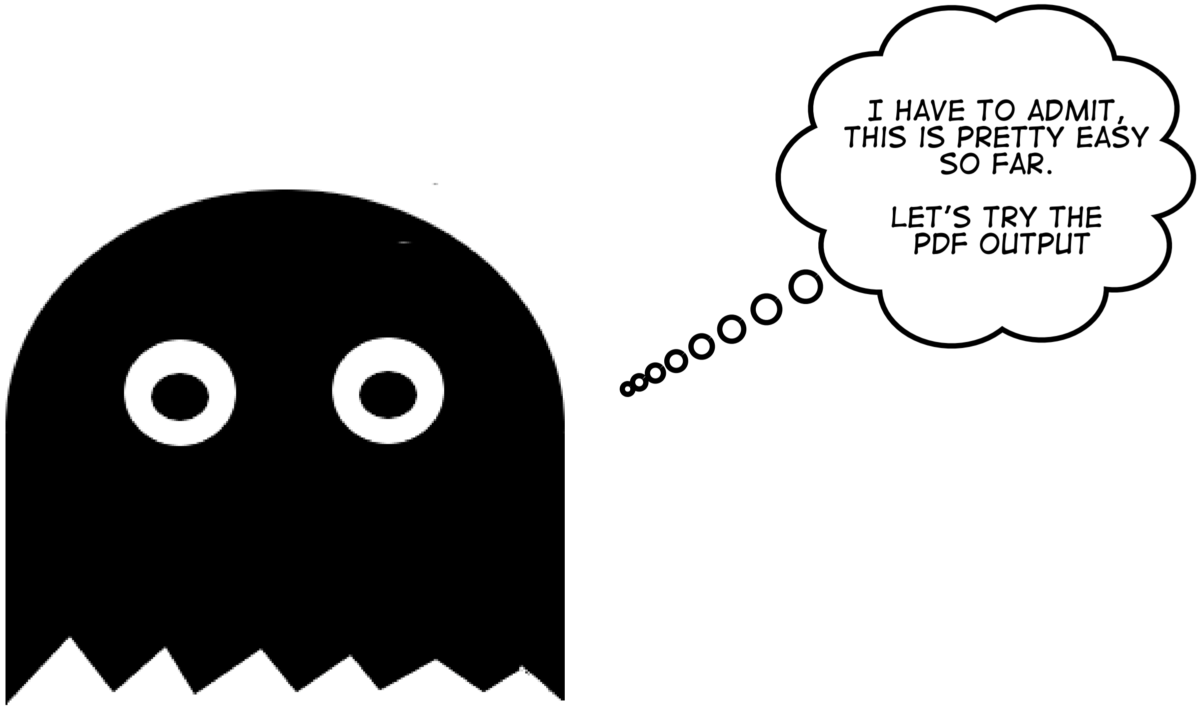
puts table

```
+------------------------------------------------------+
| kind |       name        | gender |       rate       |
+------------------------------------------------------+
| H    | John Adams        | M      |            148.4 |
| V    | Abagail Adams     | F      |                0 |
| H    | George W Bush     | M      |            560.0 |
| H    | Boris Yeltsin     | M      |            350.0 |
| H    | Johanna Kennedy   | F      |            315.0 |
| S    | Alberta Einstein  | F      | 1253.84615384615 |
| V    | Muhammad Ali      | M      |                0 |
| S    | Leonardo Da Vinci | M      | 713.673076923077 |
| S    | Benjamin Franklin | M      | 1002.17307692308 |
| H    | Tammy Jefferson   | F      |            456.4 |
| V    | Sherlock Holmes   | M      |                0 |
| V    | Hercule Poirot    | M      |                0 |
+------------------------------------------------------+
```

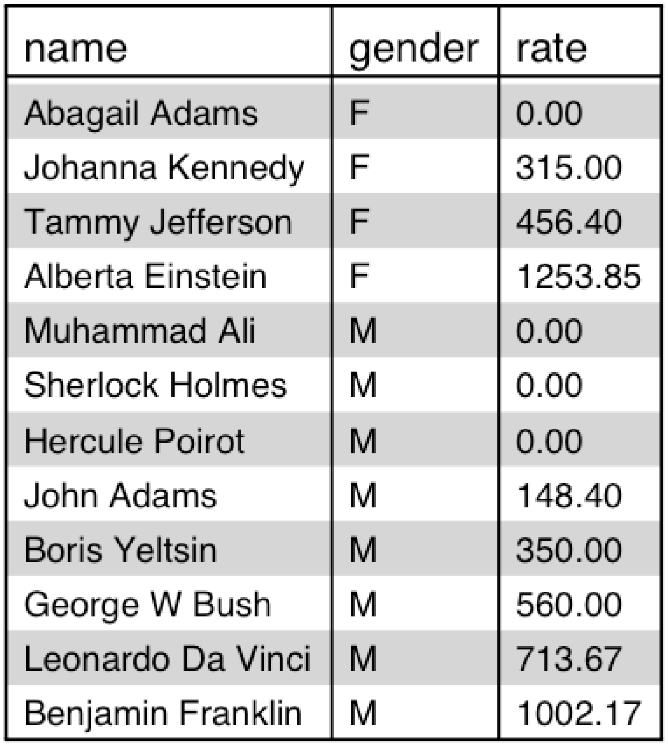

THAT'S ALREADY PRETTY CLOSE TO WHAT I NEED.
NOW I JUST WANT SOME BASIC SORTING.
I ALSO WANT TO CLEAN UP THE REPORT DATA A BIT

```
table.remove_column("kind")
table.sort_rows_by!(["gender","rate"])
table.replace_column("rate") { |r| "%0.2f" % r.rate }
```

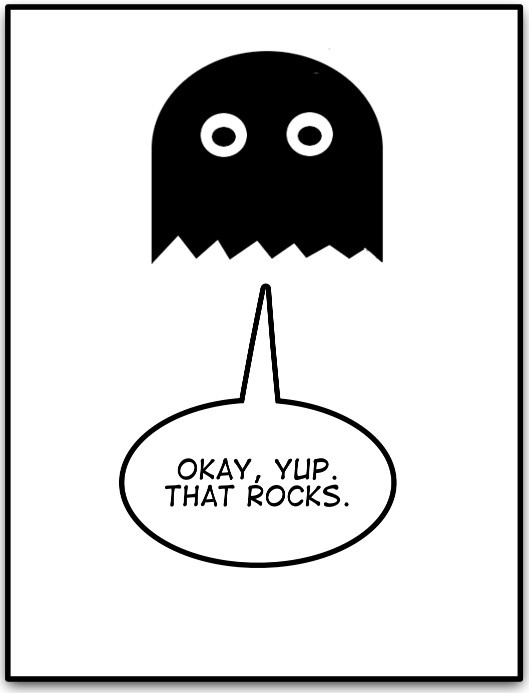
```
+--------------------------------------+
|        name       | gender |  rate   |
+--------------------------------------+
| Abagail Adams     | F      | 0.00    |
| Johanna Kennedy   | F      | 315.00  |
| Tammy Jefferson   | F      | 456.40  |
| Alberta Einstein  | F      | 1253.85 |
| Muhammad Ali      | M      | 0.00    |
| Sherlock Holmes   | M      | 0.00    |
| Hercule Poirot    | M      | 0.00    |
| John Adams        | M      | 148.40  |
| Boris Yeltsin     | M      | 350.00  |
| George W Bush     | M      | 560.00  |
| Leonardo Da Vinci | M      | 713.67  |
| Benjamin Franklin | M      | 1002.17 |
+--------------------------------------+
```



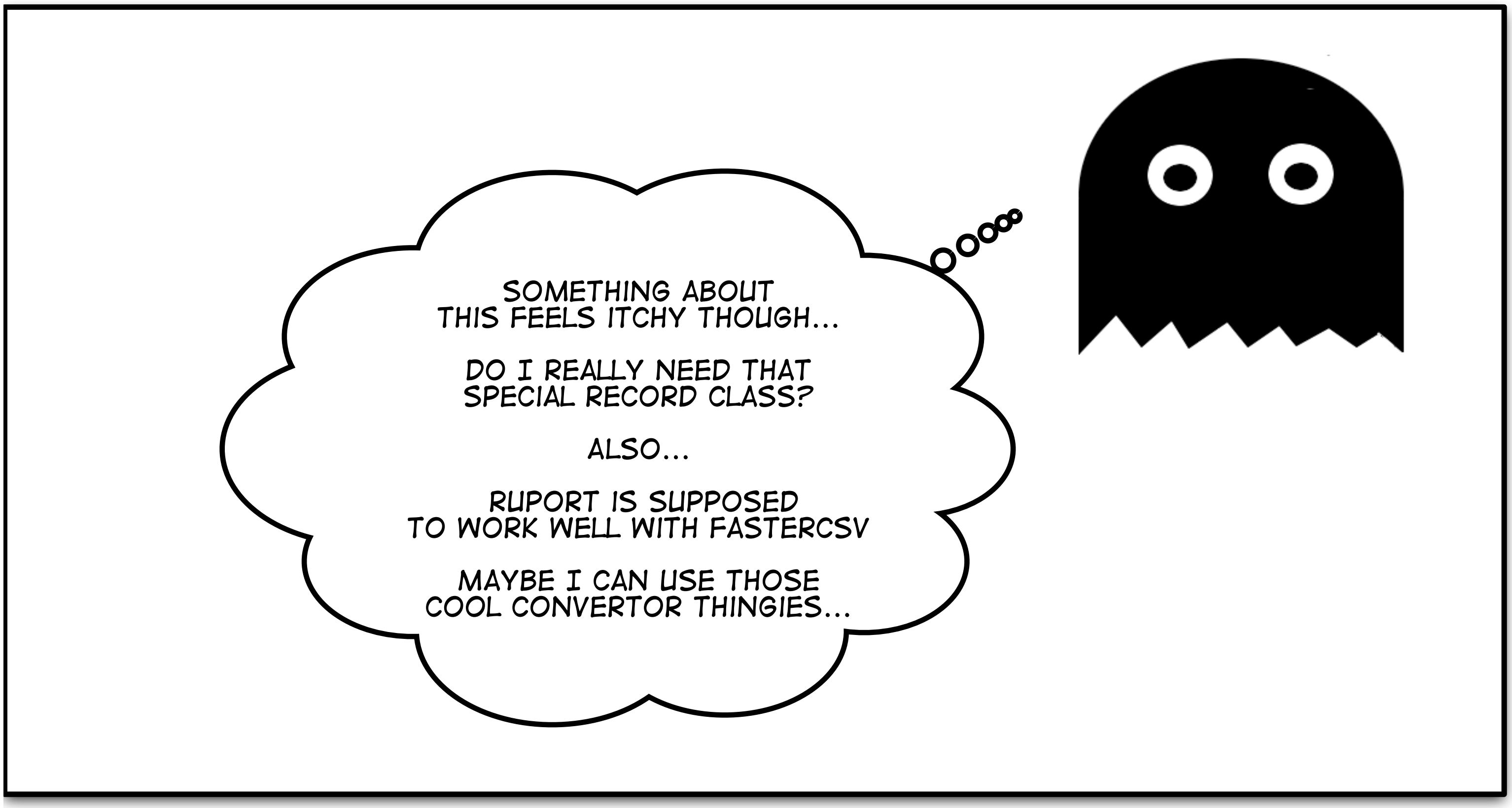
```
puts table.to_pdf
```



name	gender	rate
Abagail Adams	F	0.00
Johanna Kennedy	F	315.00
Tammy Jefferson	F	456.40
Alberta Einstein	F	1253.85
Muhammad Ali	M	0.00
Sherlock Holmes	M	0.00
Hercule Poirot	M	0.00
John Adams	M	148.40
Boris Yeltsin	M	350.00
George W Bush	M	560.00
Leonardo Da Vinci	M	713.67
Benjamin Franklin	M	1002.17



```
ruby myscript.rb > foo.pdf
```

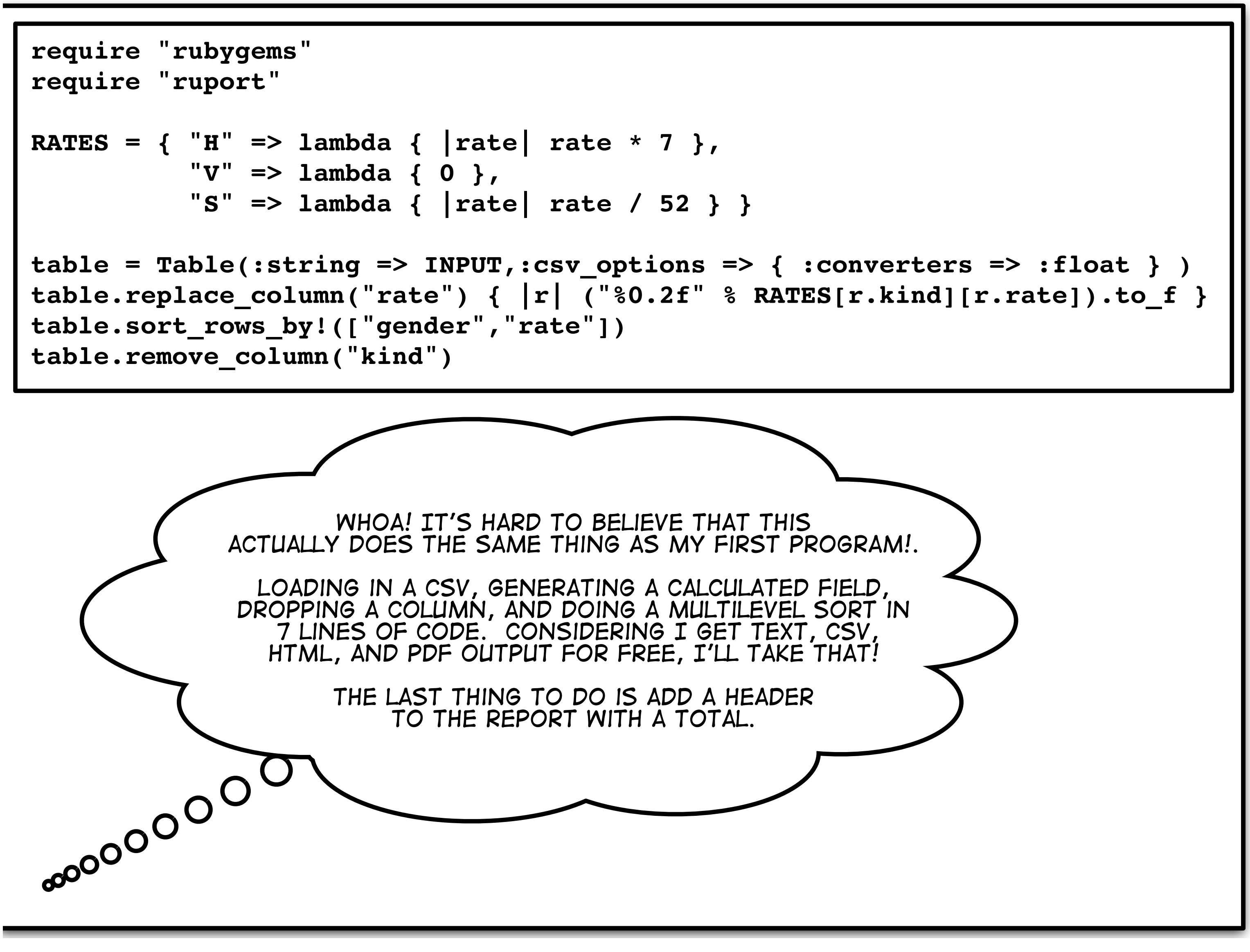

SOMETHING ABOUT THIS FEELS ITCHY THOUGH...

DO I REALLY NEED THAT SPECIAL RECORD CLASS?

ALSO...

RUPORT IS SUPPOSED TO WORK WELL WITH FASTERCSV

MAYBE I CAN USE THOSE COOL CONVERTOR THINGIES...

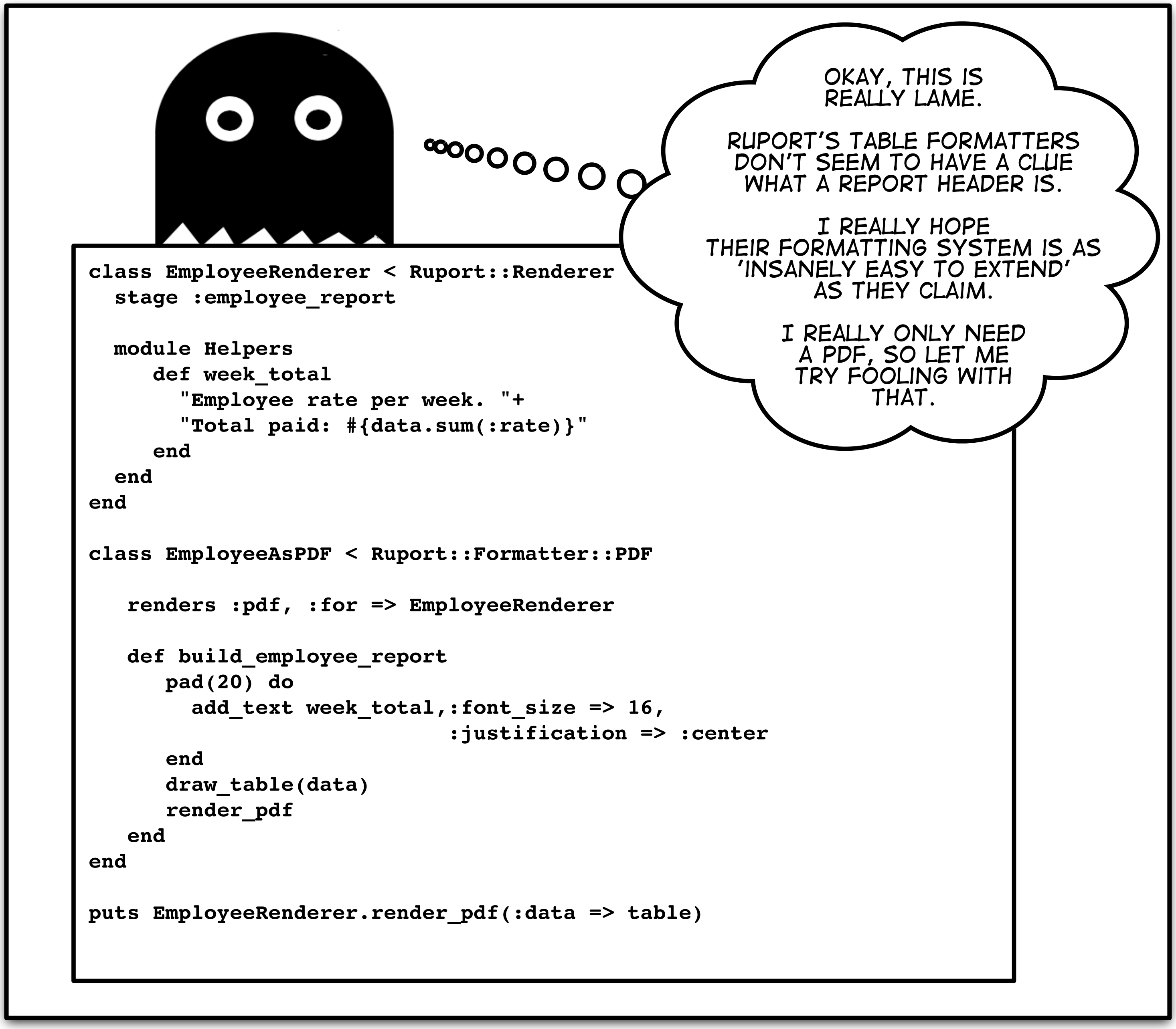


```
require "rubygems"
require "ruport"

RATES = { "H" => lambda { |rate| rate * 7 },
          "V" => lambda { 0 },
          "S" => lambda { |rate| rate / 52 } }

table = Table(:string => INPUT,:csv_options => { :converters => :float } )
table.replace_column("rate") { |r| ("%0.2f" % RATES[r.kind][r.rate]).to_f }
table.sort_rows_by!(["gender","rate"])
table.remove_column("kind")
```

WHOA! IT'S HARD TO BELIEVE THAT THIS ACTUALLY DOES THE SAME THING AS MY FIRST PROGRAM!.

LOADING IN A CSV, GENERATING A CALCULATED FIELD, DROPPING A COLUMN, AND DOING A MULTILEVEL SORT IN 7 LINES OF CODE. CONSIDERING I GET TEXT, CSV, HTML, AND PDF OUTPUT FOR FREE, I'LL TAKE THAT!

THE LAST THING TO DO IS ADD A HEADER TO THE REPORT WITH A TOTAL.



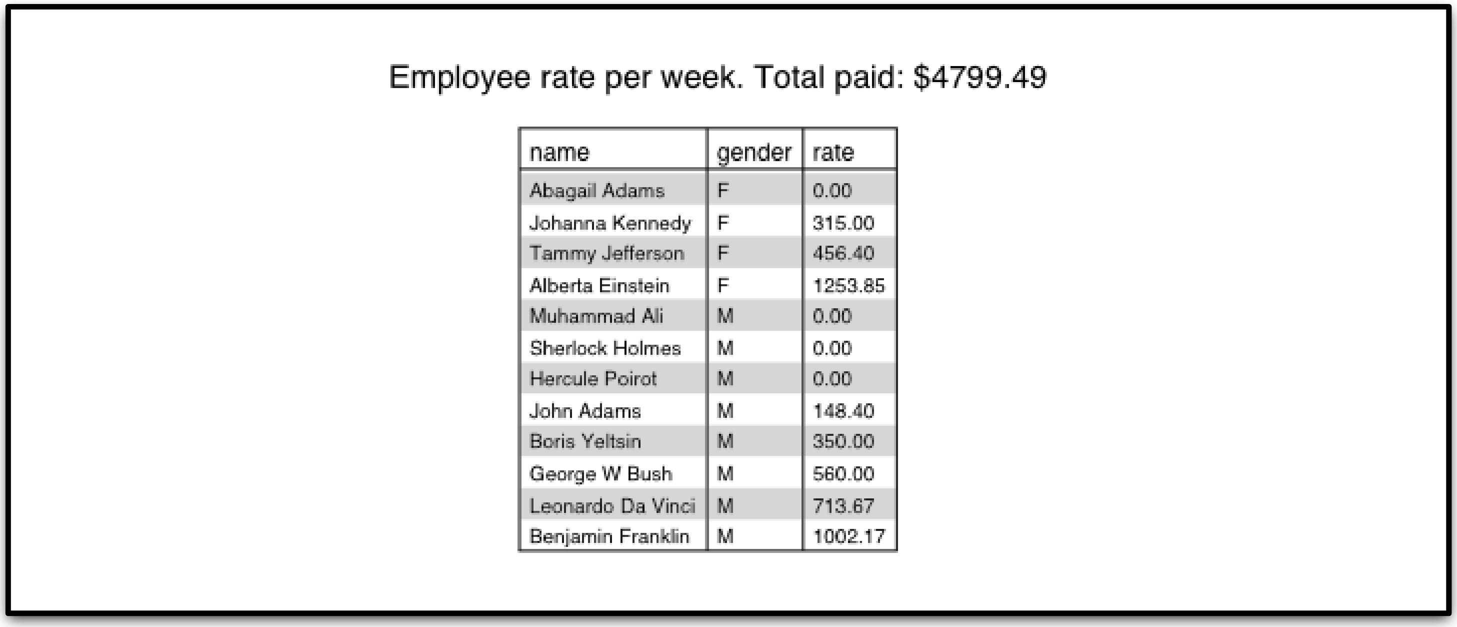
```
class EmployeeRenderer < Ruport::Renderer
  stage :employee_report

  module Helpers
     def week_total
       "Employee rate per week. "+
       "Total paid: #{data.sum(:rate)}"
     end
  end
end

class EmployeeAsPDF < Ruport::Formatter::PDF

   renders :pdf, :for => EmployeeRenderer

   def build_employee_report
      pad(20) do
        add_text week_total,:font_size => 16,
                            :justification => :center
      end
      draw_table(data)
      render_pdf
   end
end

puts EmployeeRenderer.render_pdf(:data => table)
```

OKAY, THIS IS REALLY LAME.

RUPORT'S TABLE FORMATTERS DON'T SEEM TO HAVE A CLUE WHAT A REPORT HEADER IS.

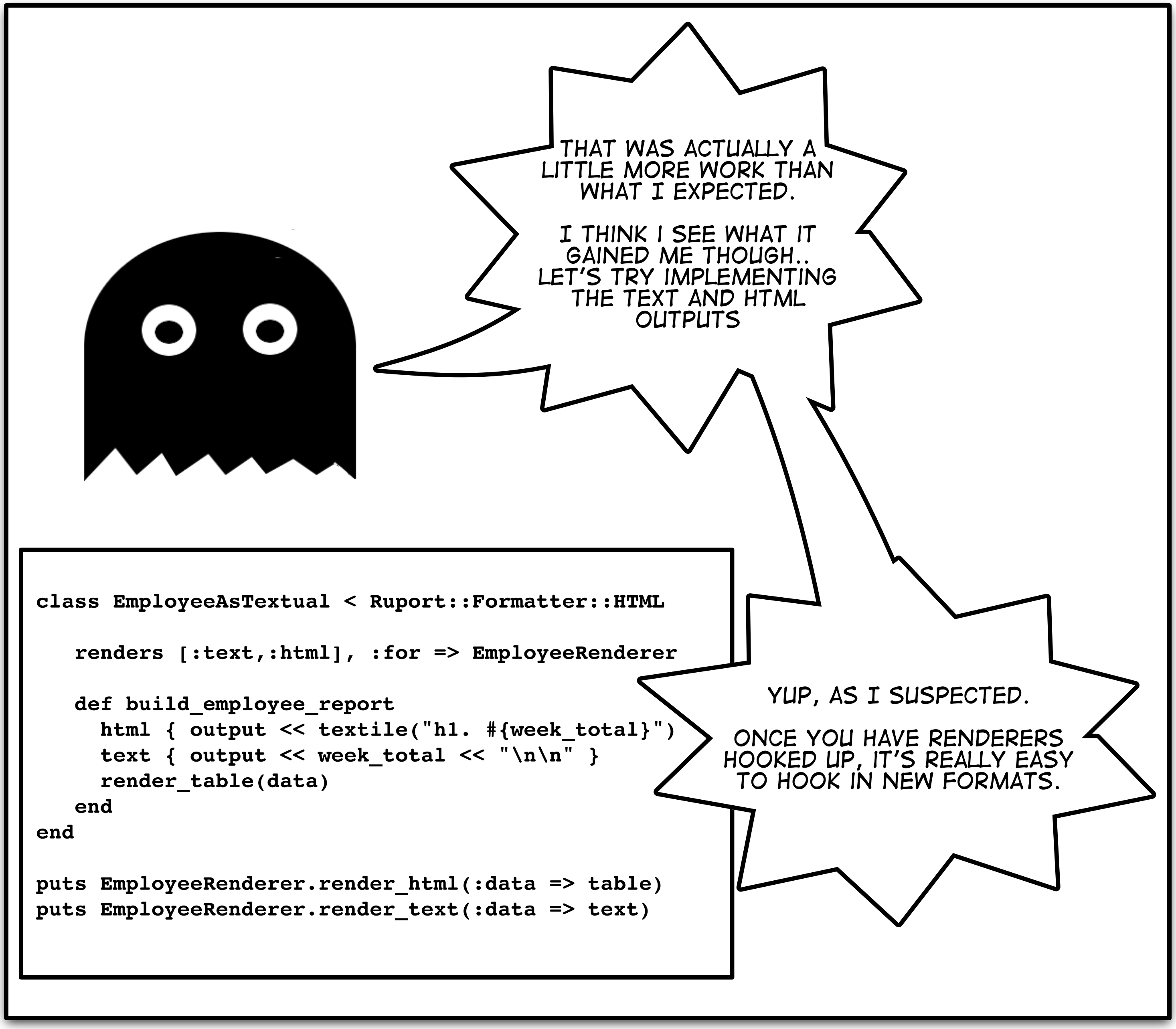
I REALLY HOPE THEIR FORMATTING SYSTEM IS AS 'INSANELY EASY TO EXTEND' AS THEY CLAIM.

I REALLY ONLY NEED A PDF, SO LET ME TRY FOOLING WITH THAT.



Employee rate per week. Total paid: $4799.49

name	gender	rate
Abagail Adams	F	0.00
Johanna Kennedy	F	315.00
Tammy Jefferson	F	456.40
Alberta Einstein	F	1253.85
Muhammad Ali	M	0.00
Sherlock Holmes	M	0.00
Hercule Poirot	M	0.00
John Adams	M	148.40
Boris Yeltsin	M	350.00
George W Bush	M	560.00
Leonardo Da Vinci	M	713.67
Benjamin Franklin	M	1002.17

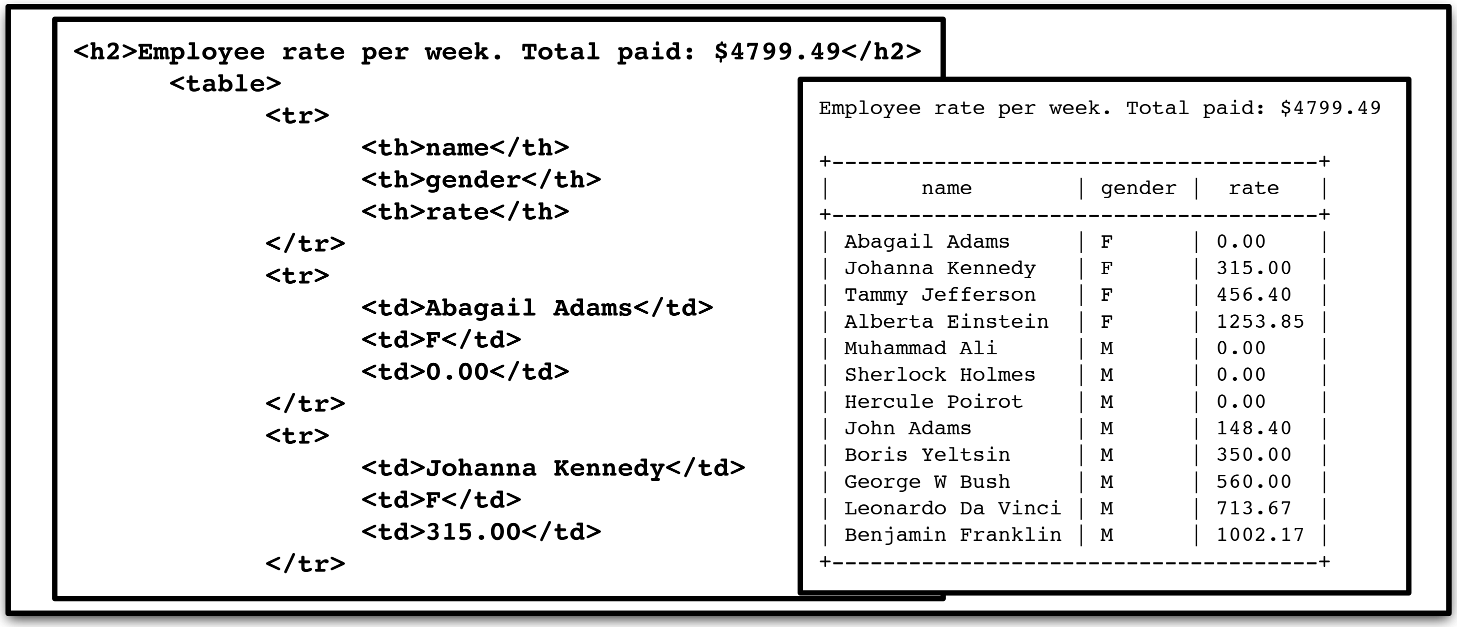

THAT WAS ACTUALLY A LITTLE MORE WORK THAN WHAT I EXPECTED.

I THINK I SEE WHAT IT GAINED ME THOUGH.. LET'S TRY IMPLEMENTING THE TEXT AND HTML OUTPUTS

```
class EmployeeAsTextual < Ruport::Formatter::HTML

   renders [:text,:html], :for => EmployeeRenderer

   def build_employee_report
     html { output << textile("h1. #{week_total}") }
     text { output << week_total << "\n\n" }
     render_table(data)
   end
end

puts EmployeeRenderer.render_html(:data => table)
puts EmployeeRenderer.render_text(:data => text)
```

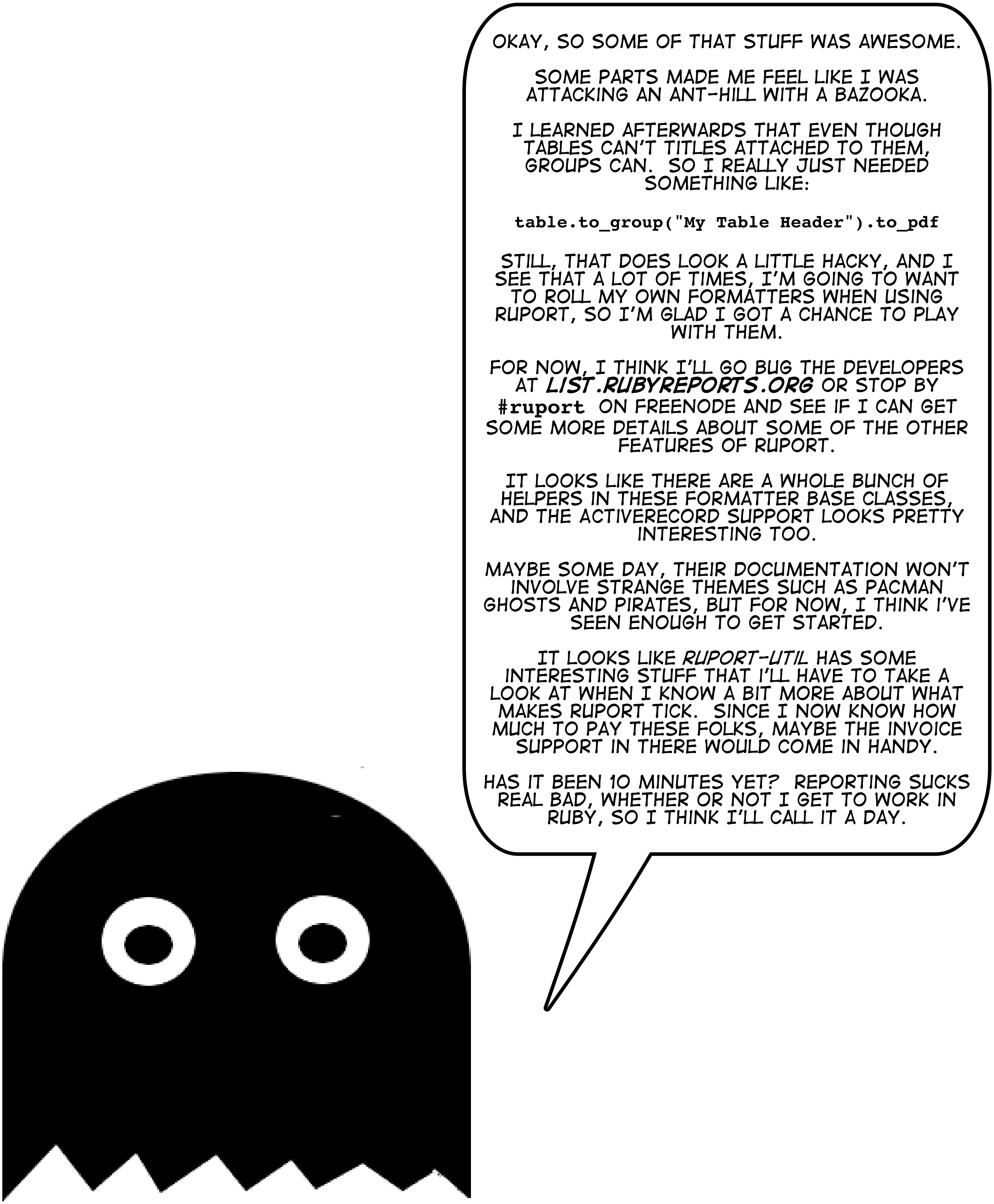
YUP, AS I SUSPECTED.

ONCE YOU HAVE RENDERERS HOOKED UP, IT'S REALLY EASY TO HOOK IN NEW FORMATS.



```
<h2>Employee rate per week. Total paid: $4799.49</h2>
      <table>
            <tr>
                  <th>name</th>
                  <th>gender</th>
                  <th>rate</th>
            </tr>
            <tr>
                  <td>Abagail Adams</td>
                  <td>F</td>
                  <td>0.00</td>
            </tr>
            <tr>
                  <td>Johanna Kennedy</td>
                  <td>F</td>
                  <td>315.00</td>
            </tr>
```

```
Employee rate per week. Total paid: $4799.49

+--------------------------------------+
|       name        | gender |  rate   |
+--------------------------------------+
| Abagail Adams     | F      | 0.00    |
| Johanna Kennedy   | F      | 315.00  |
| Tammy Jefferson   | F      | 456.40  |
| Alberta Einstein  | F      | 1253.85 |
| Muhammad Ali      | M      | 0.00    |
| Sherlock Holmes   | M      | 0.00    |
| Hercule Poirot    | M      | 0.00    |
| John Adams        | M      | 148.40  |
| Boris Yeltsin     | M      | 350.00  |
| George W Bush     | M      | 560.00  |
| Leonardo Da Vinci | M      | 713.67  |
| Benjamin Franklin | M      | 1002.17 |
+--------------------------------------+
```


OKAY, SO SOME OF THAT STUFF WAS AWESOME.

SOME PARTS MADE ME FEEL LIKE I WAS ATTACKING AN ANT-HILL WITH A BAZOOKA.

I LEARNED AFTERWARDS THAT EVEN THOUGH TABLES CAN'T TITLES ATTACHED TO THEM, GROUPS CAN. SO I REALLY JUST NEEDED SOMETHING LIKE:

table.to_group("My Table Header").to_pdf

STILL, THAT DOES LOOK A LITTLE HACKY, AND I SEE THAT A LOT OF TIMES, I'M GOING TO WANT TO ROLL MY OWN FORMATTERS WHEN USING RUPORT, SO I'M GLAD I GOT A CHANCE TO PLAY WITH THEM.

FOR NOW, I THINK I'LL GO BUG THE DEVELOPERS AT ***LIST.RUBYREPORTS.ORG*** OR STOP BY **#ruport** ON FREENODE AND SEE IF I CAN GET SOME MORE DETAILS ABOUT SOME OF THE OTHER FEATURES OF RUPORT.

IT LOOKS LIKE THERE ARE A WHOLE BUNCH OF HELPERS IN THESE FORMATTER BASE CLASSES, AND THE ACTIVERECORD SUPPORT LOOKS PRETTY INTERESTING TOO.

MAYBE SOME DAY, THEIR DOCUMENTATION WON'T INVOLVE STRANGE THEMES SUCH AS PACMAN GHOSTS AND PIRATES, BUT FOR NOW, I THINK I'VE SEEN ENOUGH TO GET STARTED.

IT LOOKS LIKE *RUPORT-UTIL* HAS SOME INTERESTING STUFF THAT I'LL HAVE TO TAKE A LOOK AT WHEN I KNOW A BIT MORE ABOUT WHAT MAKES RUPORT TICK. SINCE I NOW KNOW HOW MUCH TO PAY THESE FOLKS, MAYBE THE INVOICE SUPPORT IN THERE WOULD COME IN HANDY.

HAS IT BEEN 10 MINUTES YET? REPORTING SUCKS REAL BAD, WHETHER OR NOT I GET TO WORK IN RUBY, SO I THINK I'LL CALL IT A DAY.