# Prawn Grid

Bringing the Power of Grids to Prawn

Andrew O'Brien

#### Prawn

```
Prawn::Document.generate("basic_images.pdf", :page_layout => :landscape) do
 pigs = "#{Prawn::BASEDIR}/data/images/pigs.jpg"
  image pigs, :at => [50,450], :scale => 0.5
  stef = "#{Prawn::BASEDIR}/data/images/stef.jpg"
  image stef, :at => [75, 75]
  stef = "#{Prawn::BASEDIR}/data/images/stef.jpg"
  image stef, :at => [500, 400], :width => 200, :height => 200
  text "Please enjoy the pigs", :size => 36, :at => [200,15]
 ruport = "#{Prawn::BASEDIR}/data/images/ruport.png"
  image ruport, :at => [400,200], :width => 150
 ruport = "#{Prawn::BASEDIR}/data/images/ruport_transparent.png"
 image ruport, :at => [50,525]
end
```

A lot of manual calculation of coordinates.

# Prawn

Prawn::Do pigs = image p stef = image s stef = image s text "P ruport image r ruport image r end







Please enjoy the pigs

oe) do

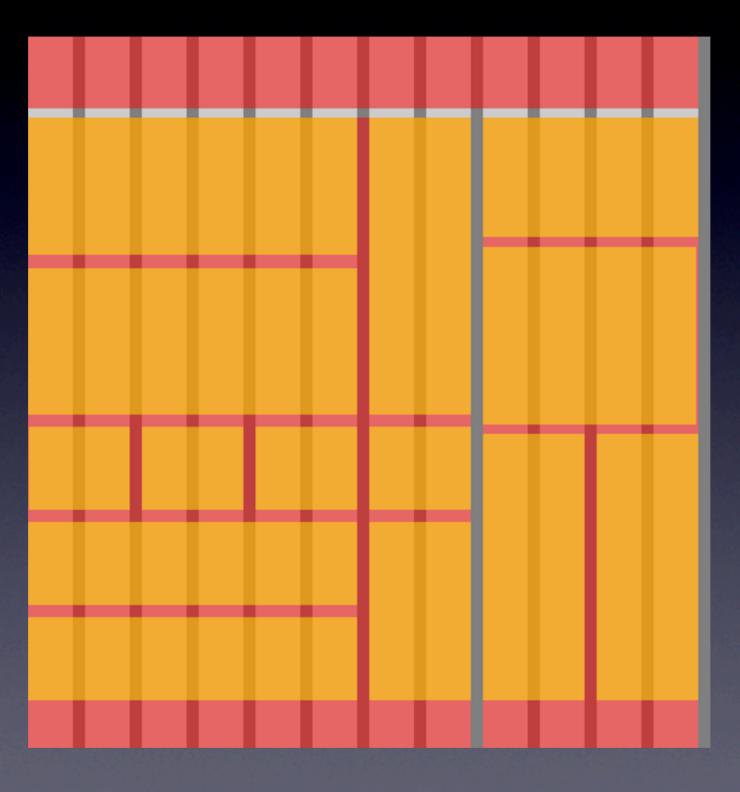
The grid is a regulatory system which pre-empts the basic formal decisions in the design process.

-Mark Boulton

They're sort of the convention-over-configuration of the print world

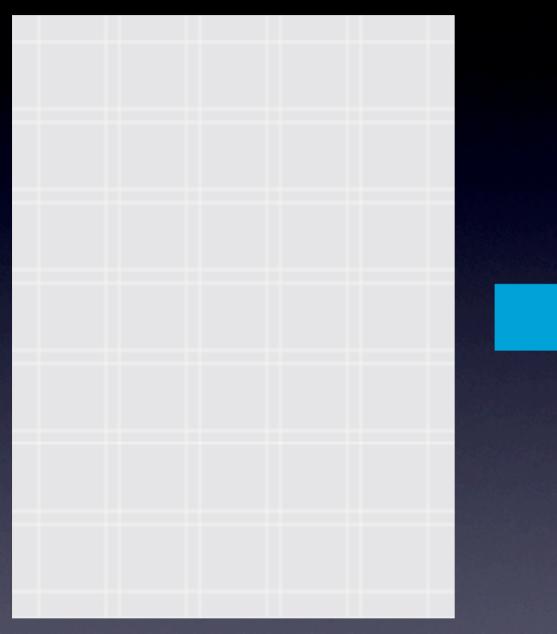
-Me

Grids aren't the only way. A lot of designers can come up with good non-grid or off-grid designs. I'm not one of them. I just want my automatically produced PDFs to look nice.



Rows Columns Gutters

More advanced grid systems use page ratio, but I'm not going into that here.



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Winter 2007 Season

Aaron Copland January 2007

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01/59/07 Johnson State College Dibden Center for the Arts Fine Arts Center 8:00 pm

Lyndon State College Alexander Twilight Theater Center for the Arts 8:00 pm

Eric Satie The Tender Land Gymnopedie 1, 2 February 2007

> Johnson State College Dibden Center for the Arts 8:00 pm

02/30/07 Castleton State College 8:00 pm

ozviplay. Middlebury College 8:00 pm

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# Introducing Prawn Grid

- Prawn::Document#define\_grid
- Prawn::Document#grid

# Prawn Grid

```
Prawn::Document.generate('example1.pdf') do |p|
  def draw_box(p, g)
    g.bounding_box do
      p.text g.name
      p.stroke_color = "3333333"
      p.stroke do
        p.rectangle(p.bounds.top_left, p.bounds.width, p.bounds.height)
      end
    end
  end
  p.define_grid(:columns => 5, :rows => 8, :gutter => 10)
  p.grid.show_all
    p.grid(0,4),
    p.grid([0,0], [1,1]),
    p.grid([3,0], [3,3]),
    p.grid([5,1], [4,0])
  ].each {|g| draw_box(p, g)}
end
```



# Prawn Grid

```
Prawn::Document.generate('example2.pdf') do |p|
  p.define_grid(:columns => 5, :rows => 8, :gutter => 10)
 p.grid.show_all
  p.grid([0,0], [1,1]).bounding_box do
   p.image "pigs.jpg",
      :fit => [p.bounds.width, p.bounds.height],
      :position => :left, :vposition => :top
  end
  p.grid(0,4).bounding_box do
   p.image "stef.jpg",
      :fit => [p.bounds.width, p.bounds.height],
      :position => :left, :vposition => :top
  end
  p.grid([3,0], [3,3]).bounding_box do
   p.text "Please enjoy the pigs", :size => 36
  end
  p.grid([5,1], [4,0]).bounding_box do
    p.image "ruport.png",
      :fit => [p.bounds.width, p.bounds.height],
      :position => :left, :vposition => :top
  end
end
```



# The Future

#### CSS3 Advanced Page Layout work-alike

```
Prawn::Document.generate(file_path) do |p|
  p.define_grid(:columns => 5, :rows => 8, :gutter => 10,
    :layout => [
                      (0,0),(0,1)
      "a a",
                      (3,0),(3,2)
      "b b b",
      "_ foo foo",
                      (4,1),(5,2)
      " foo foo",
    1)
  [:a, :b, :foo].each {|key| draw_box(p.grid(p, key))}
  def draw_box(p, g)
    g.bounding_box do
      p.text g.name
      p.stroke_color = "333333"
      p.stroke do
        p.rectangle(p.bounds.top_left, p.bounds.width, p.bounds.height)
      end
    end
  end
end
```

#### Further Resources

- Prawn: <a href="http://github.com/sandal/prawn/tree/master">http://github.com/sandal/prawn/tree/master</a>
- Prawn Grid: <a href="http://github.com/AndrewO/prawn\_grid/tree/master">http://github.com/AndrewO/prawn\_grid/tree/master</a>
- Mark Boulton: 5 Simple Steps to Designing Grid Systems
   http://www.markboulton.co.uk/journal/comments/
   five simple steps to designing grid systems part I/
   (a way better grid system and explanation)
- Khoi Vinh & Mark Boulton: Grids are Good (Right)? <a href="http://www.subtraction.com/pics/0703/grids\_are\_good.pdf">http://www.subtraction.com/pics/0703/grids\_are\_good.pdf</a>
- CSS Advanced Layout Module: <a href="http://www.w3.org/TR/css3-layout/">http://www.w3.org/TR/css3-layout/</a>