



DECK: a package for presentations

Deck is a package written in Go

That uses a singular markup language

With elements for text, lists, code, and graphics

All layout and sizes are expressed as percentages

Clients are interactive or create formats like PDF or SVG

Elements

Hello, World

A block of text, word-wrapped to a specified width. You may specify size, font, color, and opacity.

```
package main
import "fmt"
func main() {
   fmt.Println("Hello, World")
}
```

<text>...</text>

bullet

Point A

Point B

Point C

Point D

plain

First item

Second item

The third item

the last thing

number

1. This

2. That

3. The other

4. One more

</

height



width

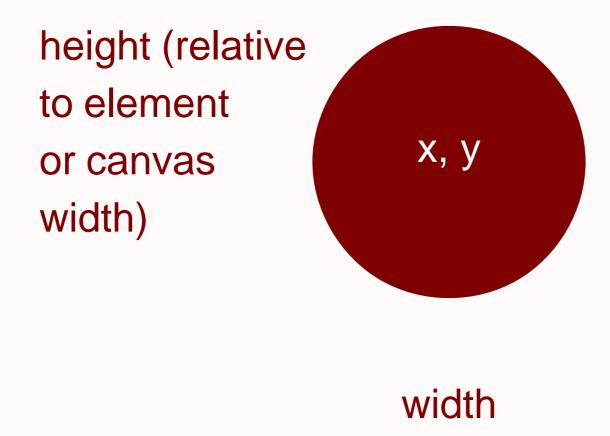
<image .../>

height (relative to element or canvas width)

x, y

width

<rect .../>



<ellipse .../>

<.../>

angle2 (90 deg)

x, y angle1 (0 deg)

control



<curve .../>

Markup and Layout

```
Start the deck
                    <deck>
Set the canvas size
                      <canvas width="1024" height="768" />
Begin a slide
                      <slide bg="white" fg="black">
Place an image
                           <image xp="70" yp="60" width="256" height="179" name="work.png" caption="Desk"/>
Draw some text
                           <text xp="20" yp="80" sp="3">Deck uses these elements</text>
Make a bullet list
                           <list xp="20" yp="70" sp="2" type="bullet">
                              text, list, image
                              line, rect, ellipse
                              arc, curve
End the list
                           </list>
Draw a line
                           ine
                                    xp1="20" yp1="10" xp2="30" yp2="10"/>
Draw a rectangle
                                    xp="35" yp="10" wp="4" hr="75" color="rgb(127,0,0)"/>
                           <rect
Draw an ellipse
                           <ellipse xp="45" yp="10" wp="4" hr="75" color="rgb(0,127,0)"/>
Draw an arc
                                    xp="55" yp="10" wp="4" hp="3" a1="0" a2="180" color="rgb(0,0,127)"/>
                           <arc
Draw a quadratic bezier
                                    xp1="60" yp1="10" xp2="75" yp2="20" xp3="70" yp3="10" />
                           <curve
End the slide
                       </slide>
End of the deck
                    </deck>
```

Deck uses these elements

- text, list, image
- line, rect, ellipse
- arc, curve



Desk

Text and List Markup

```
Position, size <text xp="..." yp="..." sp="...">

Block of text <text ... type="block">

Lines of code <text ... type="code">

Attributes <text ... color="..." opacity="..." font="..." align="...">
```

Common Attributes for text and list

xp horizontal percentage

yp vertical percentage

sp font size percentage

type "bullet", "number" (list), "block", "code" (text)

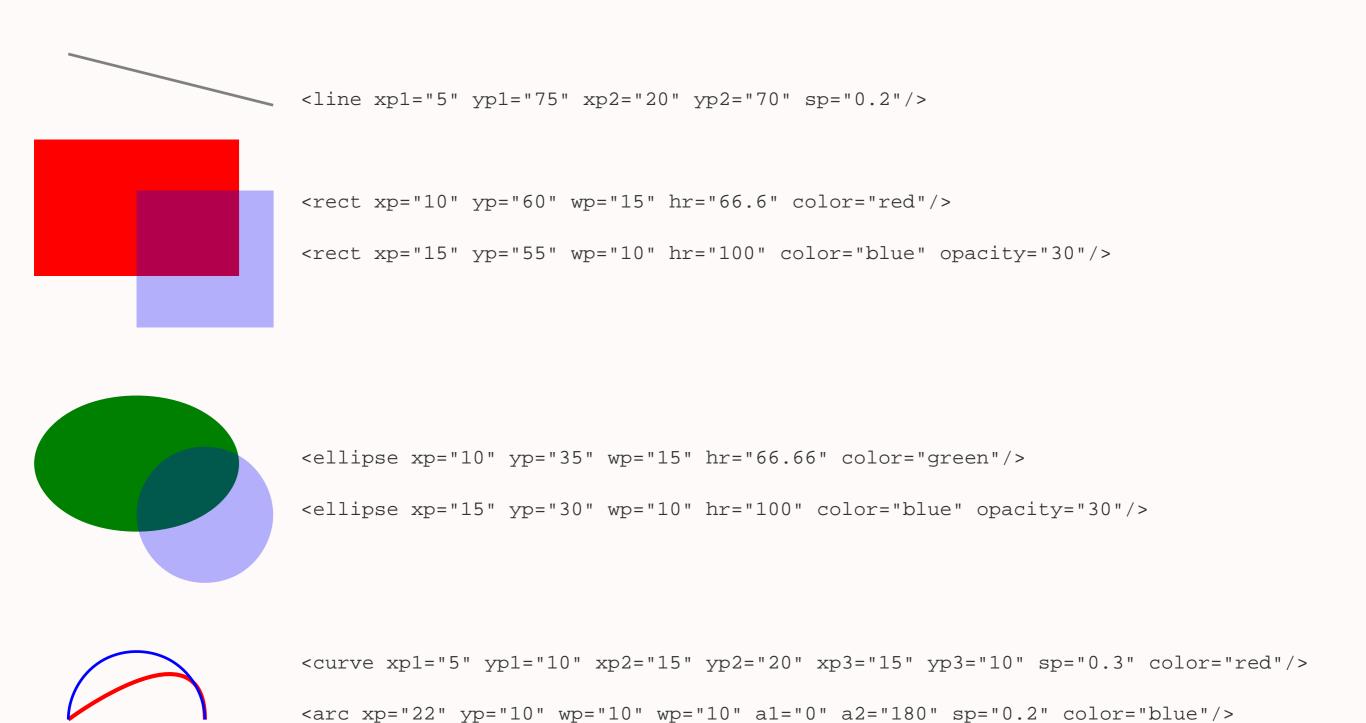
align "left", "middle", "end"

color SVG names ("maroon"), or RGB "rgb(127,0,0)"

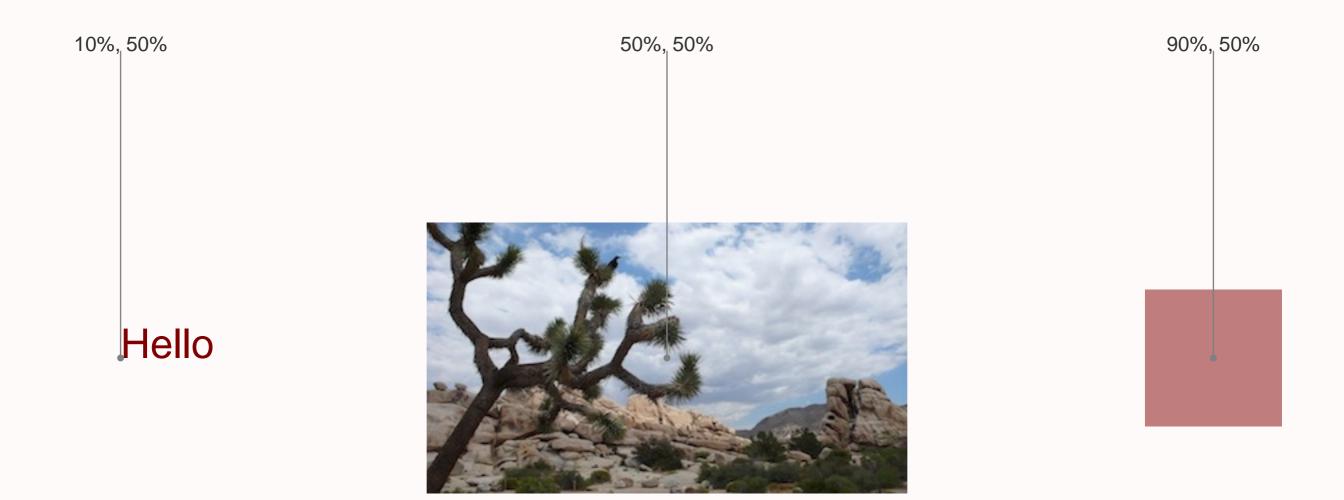
opacity percent opacity (0-100, transparent - opaque)

font "sans", "serif", "mono"

Graphics Markup







Percentage-based layout

bullet

Point A

Point B

Point C

Point D

plain

First item

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The third item

the last thing

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1. This

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</

bullet

- Point A
- Point B
- Point C
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plain

First item

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number

- 1. This
- 2. That
- 3. The other
- 4. One more

t>...</list>

Design Examples

hello, world

Top

Left

Right

30%

70%



Summary (30%)

Detail

(70%)

Footer (bottom 20%)

Two Columns

One

Two

Three

Four



Tree and Sky

Five

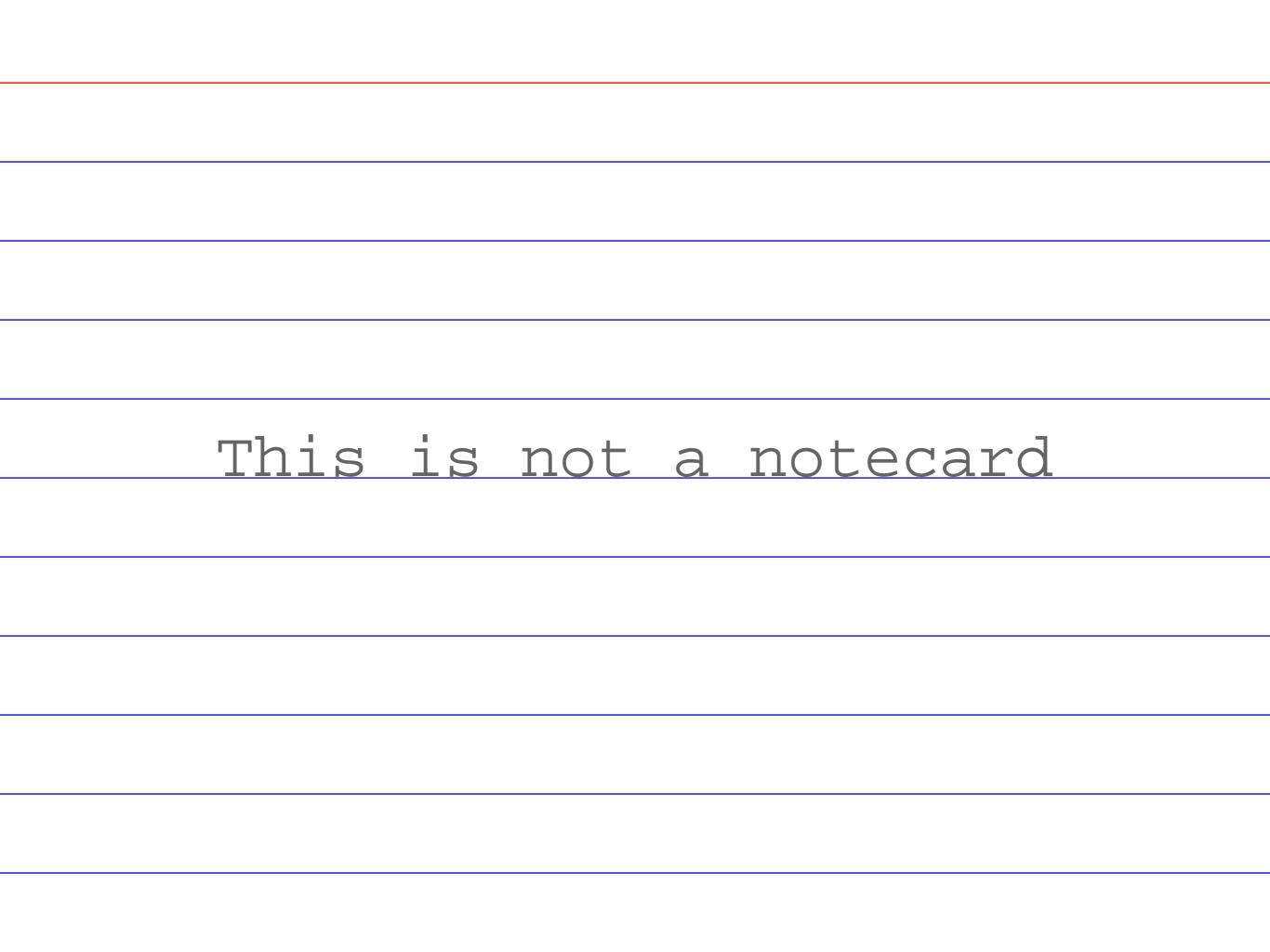
Six

Seven

Eight



Rocks

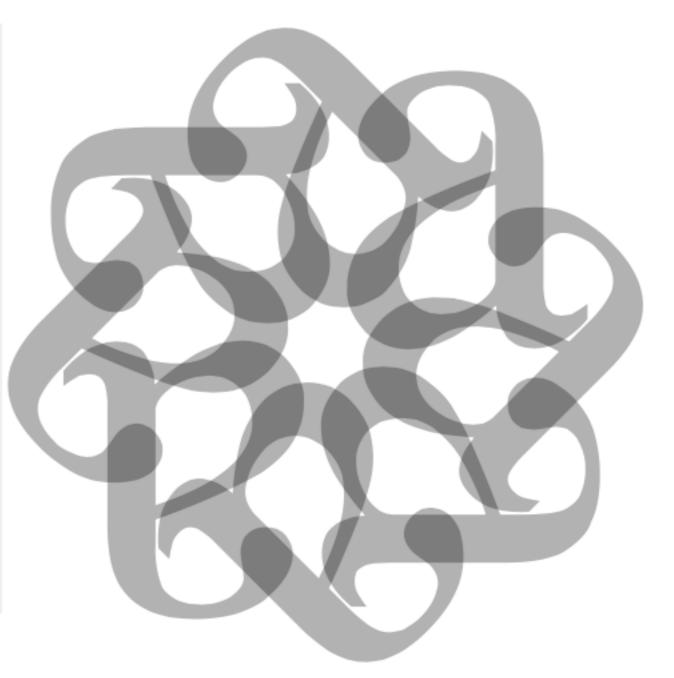


Rich Can't buy me love Bliss Worse Better We have each other Misery

Poor

Code Output

```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
func main() {
    canvas := svg.New(os.Stdout)
    width := 850
   height := 1100
    canvas.Start(width, height)
    canvas.Gstyle("fill-opacity:0.3;font-size:480pt")
    for r := 0.0; r < 360.0; r += 45 {
        canvas.TranslateRotate(width/2, height/2, r)
        canvas.Text(0, 0, "a")
        canvas.Gend()
     canvas.Gend()
     canvas.End()
```



A few months ago, I had a look at the brainchild of a few serious heavyweights working at Google. Their project, the Go programming language, is a static typed, c lookalike, semicolon-less, self formatting, package managed, object oriented, easily paralellizable, cluster fuck of genius with an unique class inheritance system. It doesn't have one.

The Go Programming Language

is a static typed,
c lookalike,
semicolon-less,
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package managed,
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It doesn't have one.

So, the next time you're about to make a subclass, think hard and ask yourself

what would Go do





FOR, LO,

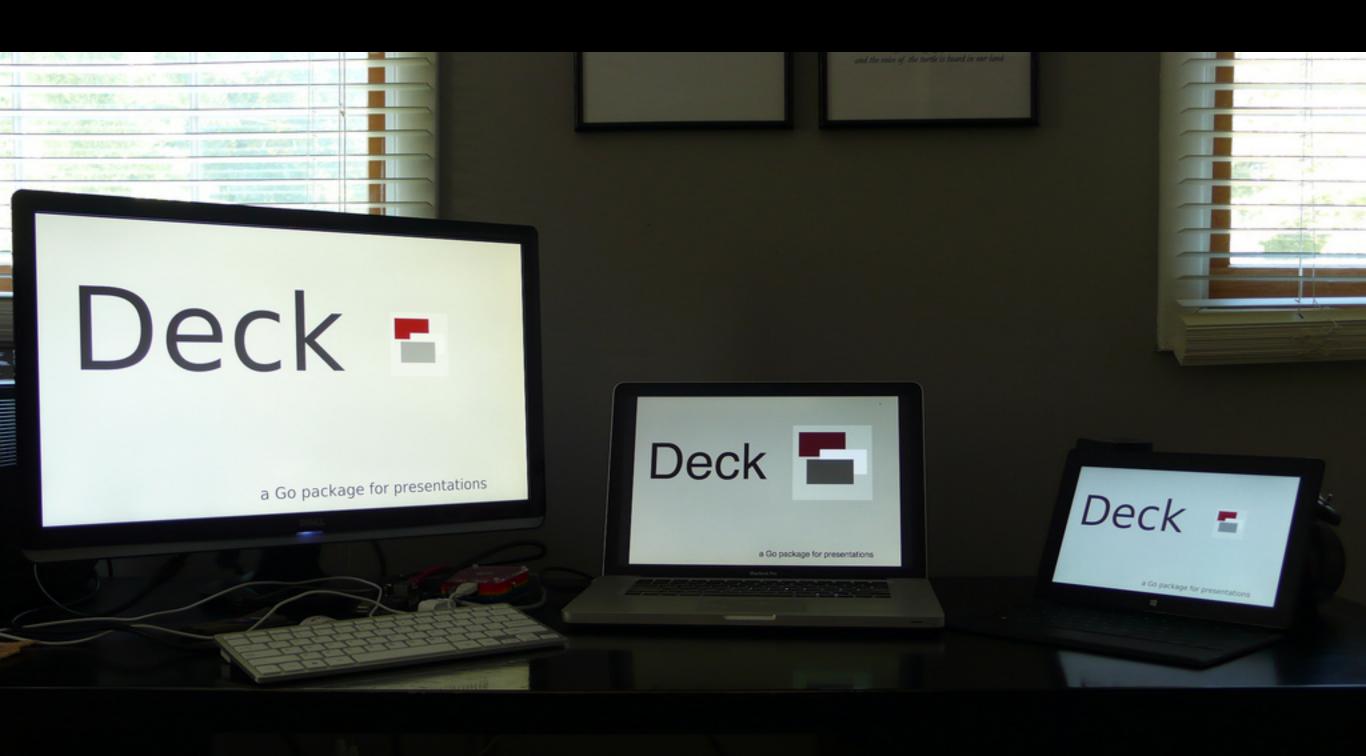
the winter is past,

the rain is over and gone;

The flowers appear on the earth;

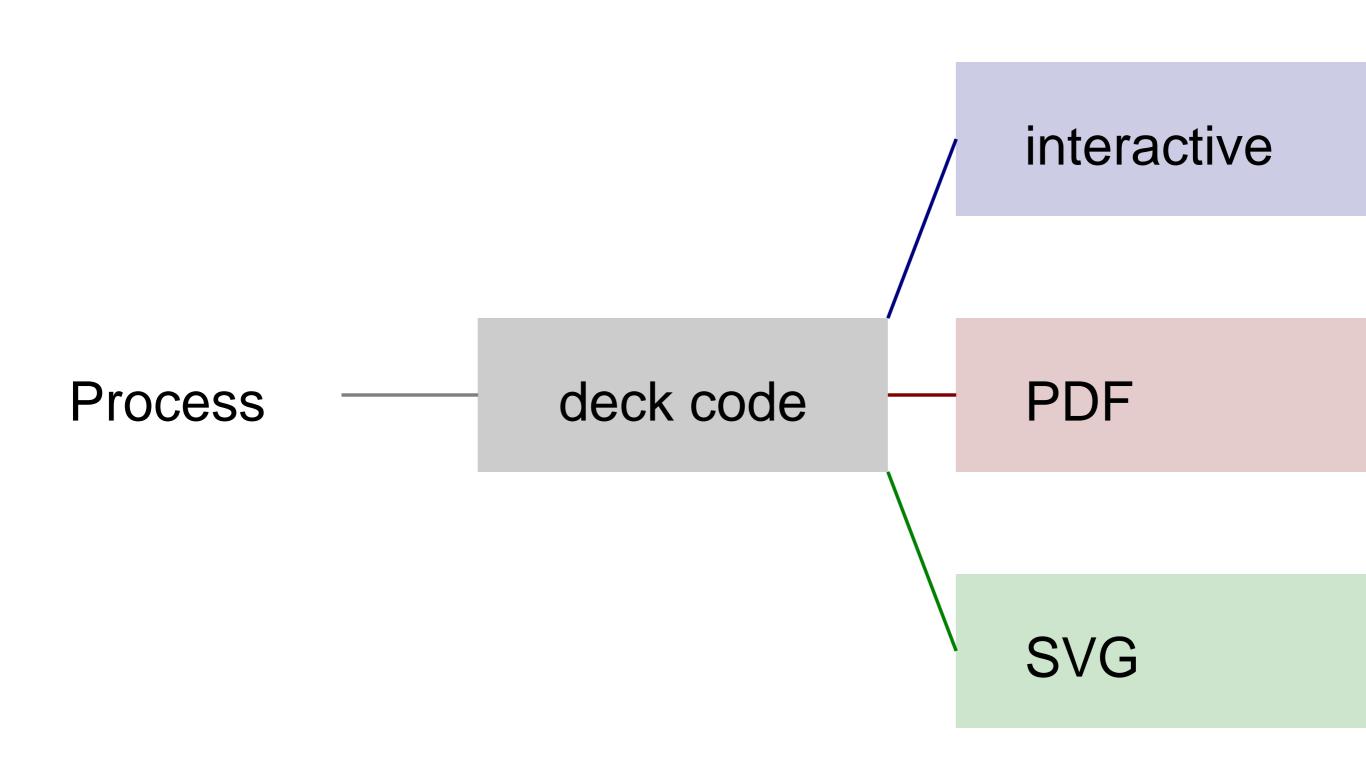
the time for the singing of birds is come,

and the voice of the turtle is heard in our land.



Clients

```
package main
import (
   "log"
   "github.com/ajstarks/deck"
func main() {
   presentation, err := deck.Read("deck.xml", 1024, 768) // open the deck
   if err != nil {
       log.Fatal(err)
   for _, slide := range presentation.Slide { // for every slide...
       for _, t := range slide.Text {
                                     // process the text elements
           x, y, size := deck.Dimen(presentation.Canvas, t.Xp, t.Yp, t.Sp)
           slideText(x, y, size, t)
                                      // process the list elements
       for _, l := range slide.List {
           x, y, size := deck.Dimen(presentation.Canvas, 1.Xp, 1.Yp, 1.Sp)
           slideList(x, y, size, 1)
```



```
func main() {
   benchmarks := []Bardata{
        {"Macbook Air", 154.701},
        {"MacBook Pro (2008)", 289.603},
        {"BeagleBone Black", 2896.037},
        {"Raspberry Pi", 5765.568},
    ts := 2.5
   hts := ts / 2
   x := 10.0
   bx1 := x + (ts * 12)
   bx2 := bx1 + 50.0
   y := 60.0
    maxdata := 5800.0
    linespacing := ts * 2.0
    text(x, y+20, "Go 1.1.2 Build and Test Times", ts*2, "black")
    for _, data := range benchmarks {
        text(x, y, data.label, ts, "rgb(100,100,100)")
        bv := vmap(data.value, 0, maxdata, bx1, bx2)
        line(bx1, y+hts, bv, y+hts, ts, "lightgray")
        text(bv+0.5, y+(hts/2), fmt.Sprintf("%.1f", data.value), hts, "rgb(127,0,0)")
        y -= linespacing
```

Go 1.1.2 Build and Test Times

Macbook Air

MacBook Pro (2008)

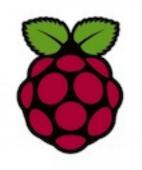
BeagleBone Black

Raspberry Pi

154.7

2896.0

5765.6



go get github.com/ajstarks/deck/vgdeck



go get github.com/ajstarks/deck/pdfdeck



go get github.com/ajstarks/deck/svgdeck

pdfdeck [options] file.xml...

- -sans, -serif, -mono [font] specify fonts
- -pagesize [Letter, Legal, Tabloid, A2, A3, A4, A5, ArchA, Index, 4R, Widescreen]
- -pagewidth [page width (pt)]
- -pageheight [page height (pt)]
- -stdout (output to standard out)
- -outdir [directory] directory for PDF output
- -fontdir [directory] directory containing font information
- -author [author name] set the document author
- -title [title text] set the document title
- -grid [percent] draw a percent grid on each slide

svgdeck [options] file.xml...

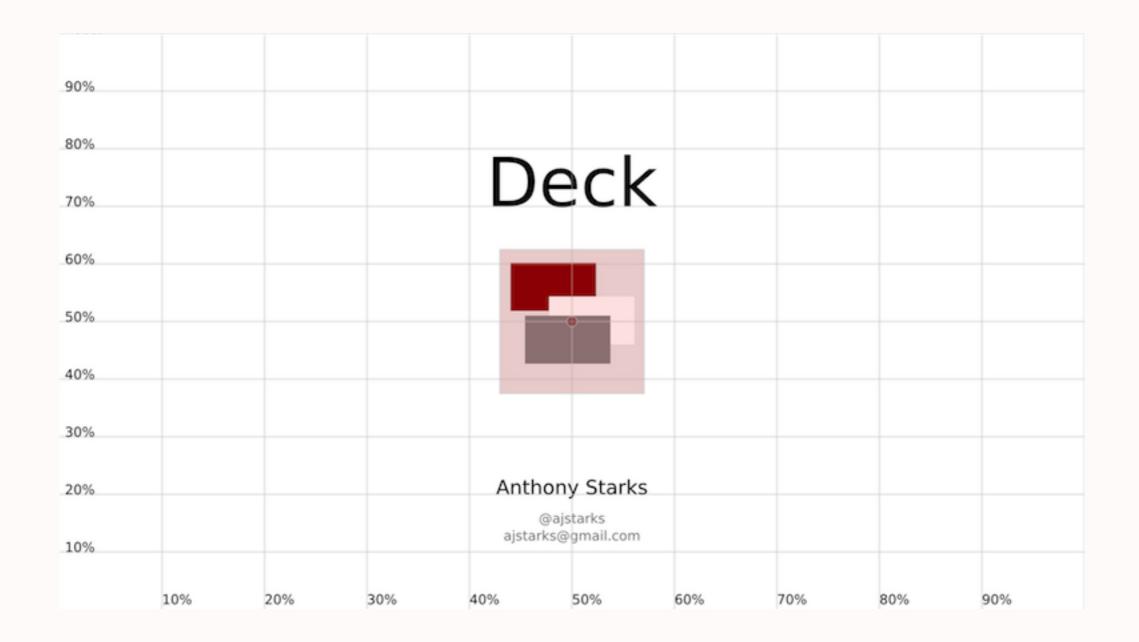
- -sans, -serif, -mono [font] specify fonts
- -pagesize [Letter, Legal, A3, A4, A5]
- -pagewidth [canvas width]
- -pageheight [canvas height]
- -stdout (output to standard out)
- -outdir [directory] directory for PDF output
- -title [title text] set the document title
- -grid [percent] draw a percent grid on each slide

vgdeck [options] file.xml...

- -loop [duration] loop, pausing [duration] between slides
- -slide [number] start at slide number
- -w [width] canvas width
- -h [height] canvas height
- -g [percent] draw a percent grid

vgdeck Commands

```
Next slide
+, Ctrl-N, [Return]
                                      Previous slide
-, Ctrl-P, [Backspace]
                                      First slide
^, Ctrl-A
                                      Last slide
$, Ctrl-E
                                      Reload
r, Ctrl-R
                                      X-Ray
x, Ctrl-X
                                      Search
/, Ctrl-F [text]
                                      Save
s, Ctrl-S
                                      Quit
q
```



X-Ray mode shows the percent grid, and highlights images

github.com/ajstarks/deck



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