

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

and the last thing

number

1. This

2. That

3. The other

4. One more

</

height



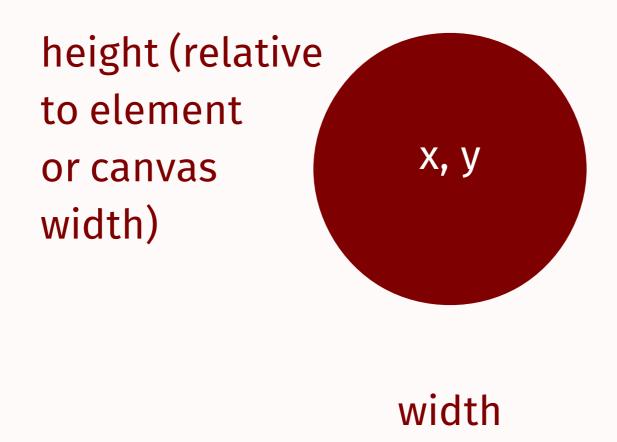
width

<image .../>

height (relative to element or canvas x, y width)

width

<rect .../>



<ellipse .../>

<.../>

angle2 (90 deg)

x, y angle1 (0 deg)

<arc .../>

control



<curve .../>

Markup and Layout

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

Anatomy of a 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 ... type="block">

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

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

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

Bullet list <list ... type="bullet">

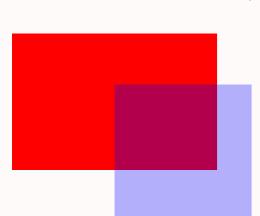
Numbered list <list ... type="number">

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

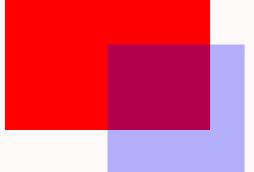
Common Attributes for text and list

```
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"
```

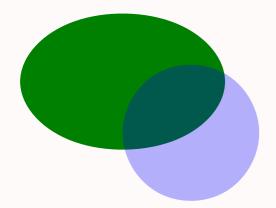
Graphics Markup



```
<line xp1="5" yp1="75" xp2="20" yp2="70" sp="0.2"/>
```



```
<rect xp="10" yp="60" wp="15" hr="66.6" color="red"/>
<rect xp="15" yp="55" wp="10" hr="100" color="blue" opacity="30"/>
```

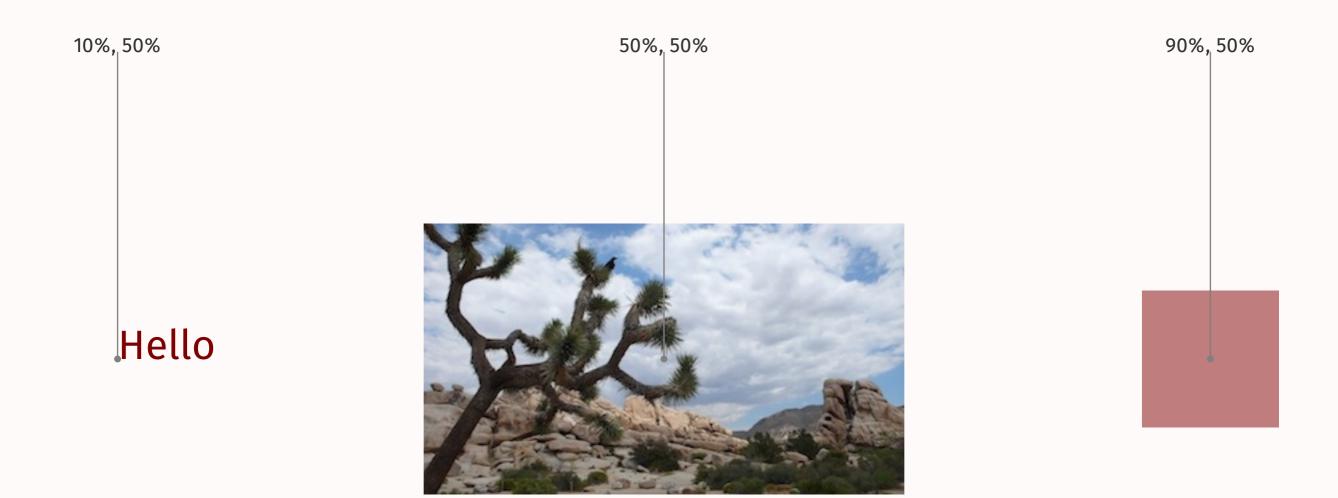


```
<ellipse xp="10" yp="35" wp="15" hr="66.66" color="green"/>
<ellipse xp="15" yp="30" wp="10" hr="100" color="blue" opacity="30"/>
```



```
<curve xp1="5" yp1="10" xp2="15" yp2="20" xp3="15" yp3="10" sp="0.3" color="red"/>
<arc xp="22" yp="10" wp="10" wp="10" a1="0" a2="180" sp="0.2" color="blue"/>
```





Percentage-based layout

bullet

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Design Examples

Top

Left

Right

30%

70%

Header (top 20%)

Summary (30%) Detail

(70%)

Footer (bottom 20%)

Two Columns

One

Two

Three

Four



Tree and Sky

Five

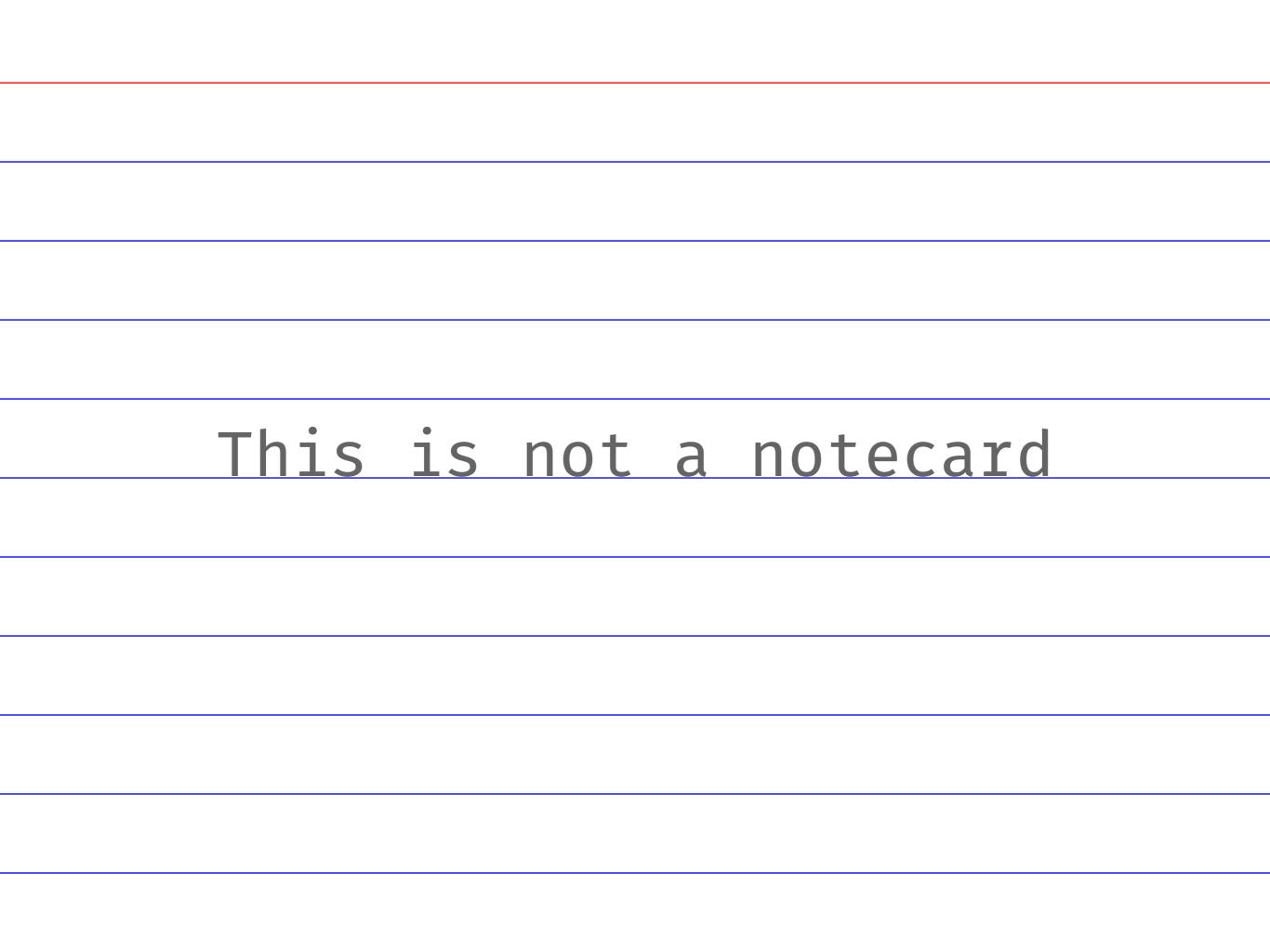
Six

Seven

Eight



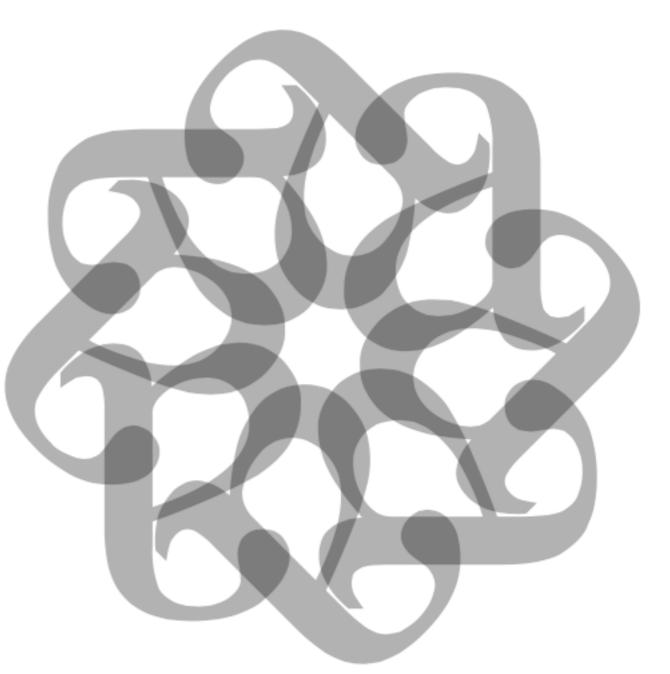
Rocks



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

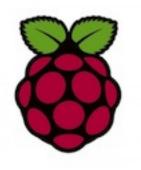
the time for the singing of birds is come,
and the voice of the turtle is heard in our land.



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)
   }
   // process the text elements
      for _, t := range slide.Text {
         x, y, size := deck.Dimen(presentation.Canvas, t.Xp, t.Yp, t.Sp)
         slideText(x, y, size, t)
      for _, l := range slide.List {
                                    // process the list elements
         x, y, size := deck.Dimen(presentation.Canvas, l.Xp, l.Yp, l.Sp)
         slideList(x, y, size, l)
```





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...

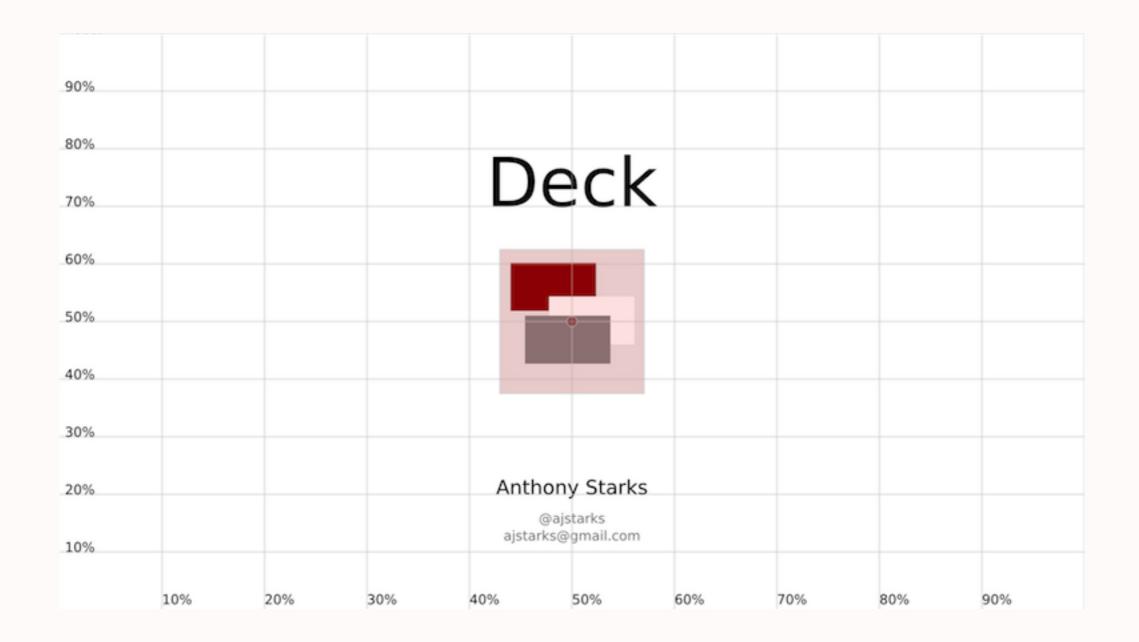
- -sans, -serif, -mono [font] specify fonts
- -pagesize [Letter, Legal, A3, A4, A5]
- -pagewidth [canvas width]
- -pageheight [canvas height]
- -stdout (output to standard out)
- -outdir [directory] directory for PDF output
- -title [title text] set the document title
- -grid [percent] draw a percent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

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



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

github.com/ajstarks/deck



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