

#### 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

t>...</list>

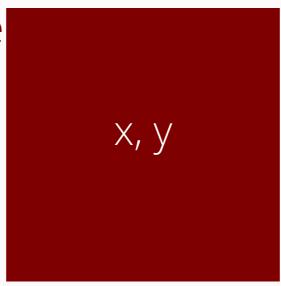
height



width

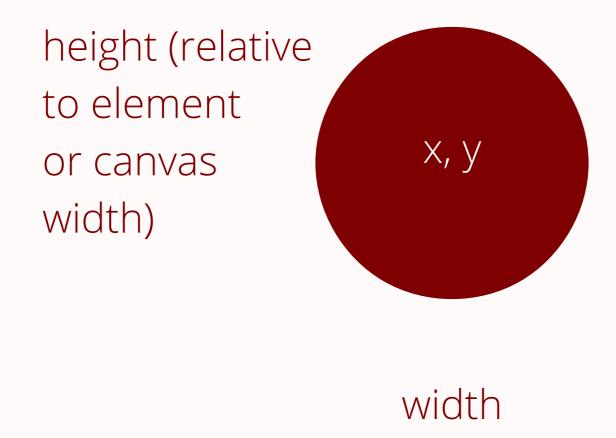
<image .../>

height (relative to element or canvas width)

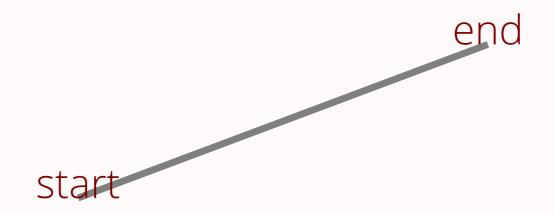


width

<rect .../>



<ellipse .../>



<.../>

angle2 (90 deg)

x, y angle1 (0 deg)

<arc .../>

### 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
                                      xp1="20" yp1="10" xp2="30" yp2="10"/>
                             line
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 ... 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)

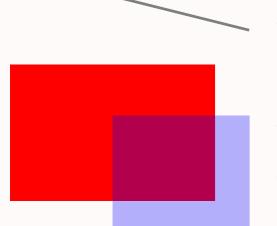
align "left", "middle", "end"

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

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

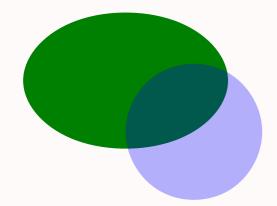
font "sans", "serif", "mono"

#### Graphics Markup

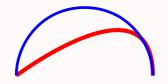


```
xp1="5" yp1="75" xp2="20" yp2="70" sp="0.2"/>
```

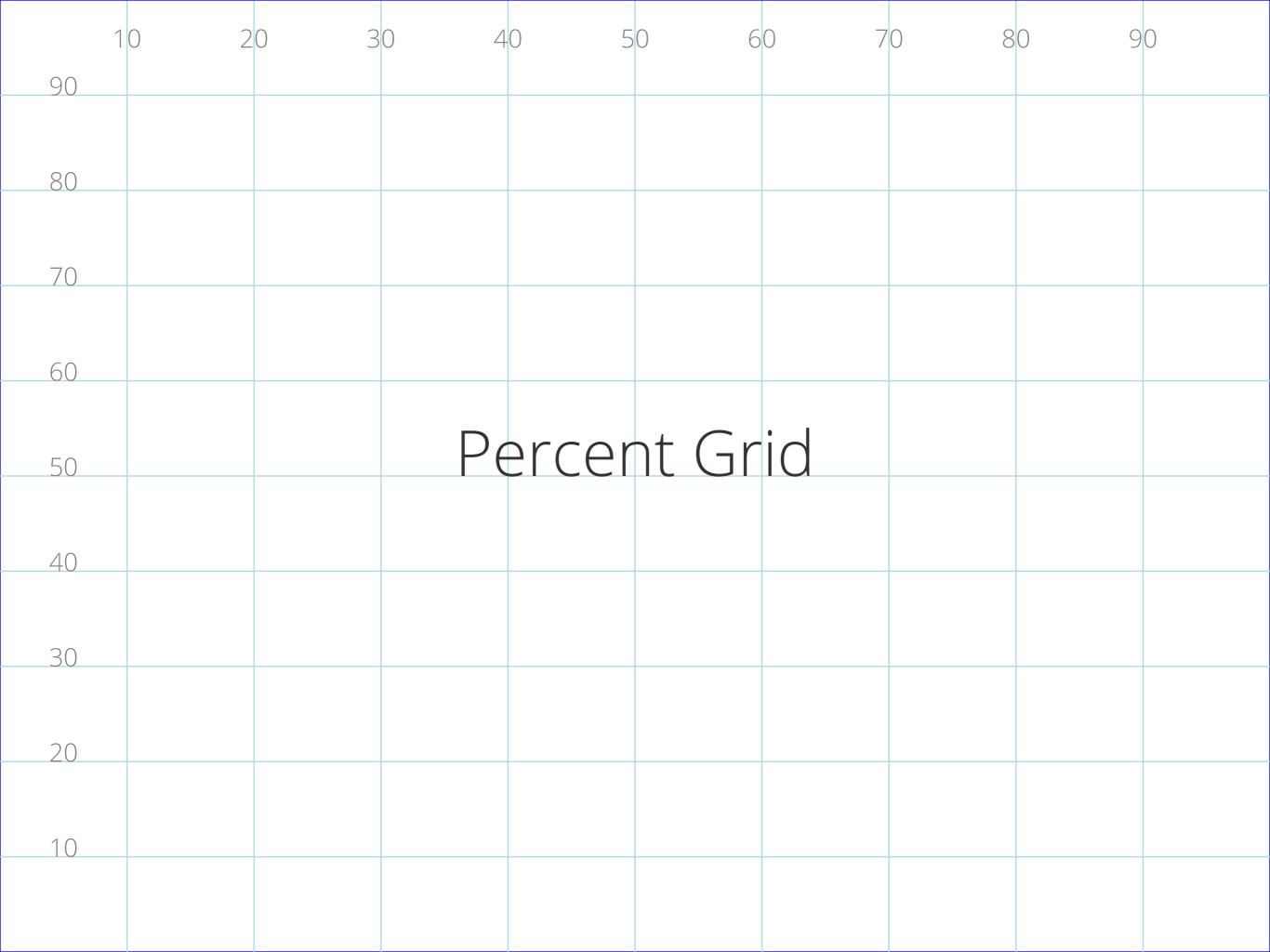
```
<rect xp="10" yp="60" wp="15" hr="66.6" color="red"/>
<rect xp="15" yp="55" wp="10" hr="100" color="blue" opacity="30"/>
```

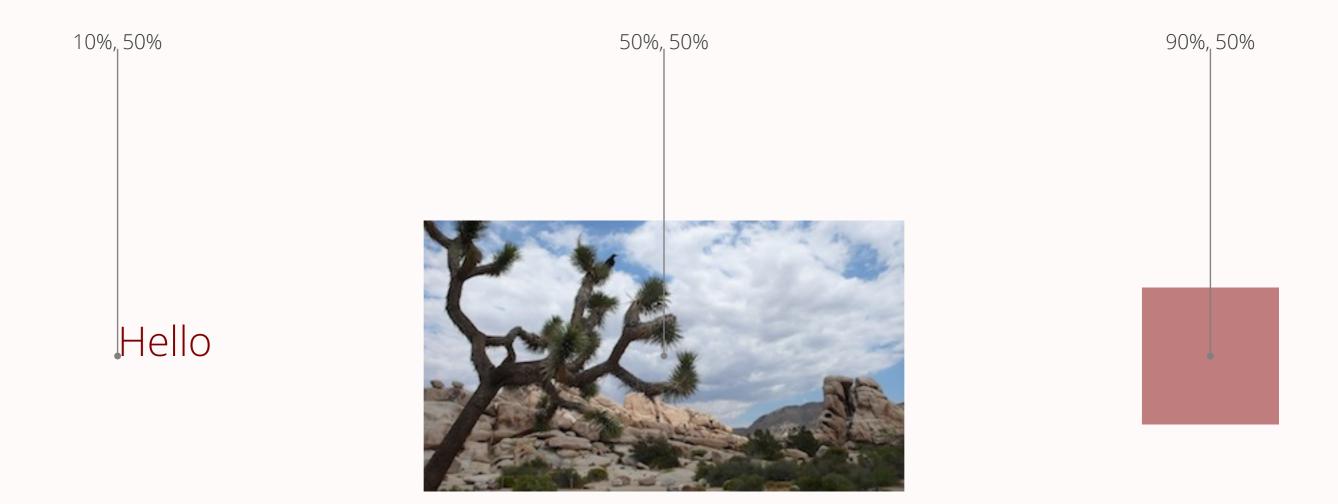


```
<ellipse xp="10" yp="35" wp="15" hr="66.66" color="green"/>
<ellipse xp="15" yp="30" wp="10" hr="100" color="blue" opacity="30"/>
```



```
<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

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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

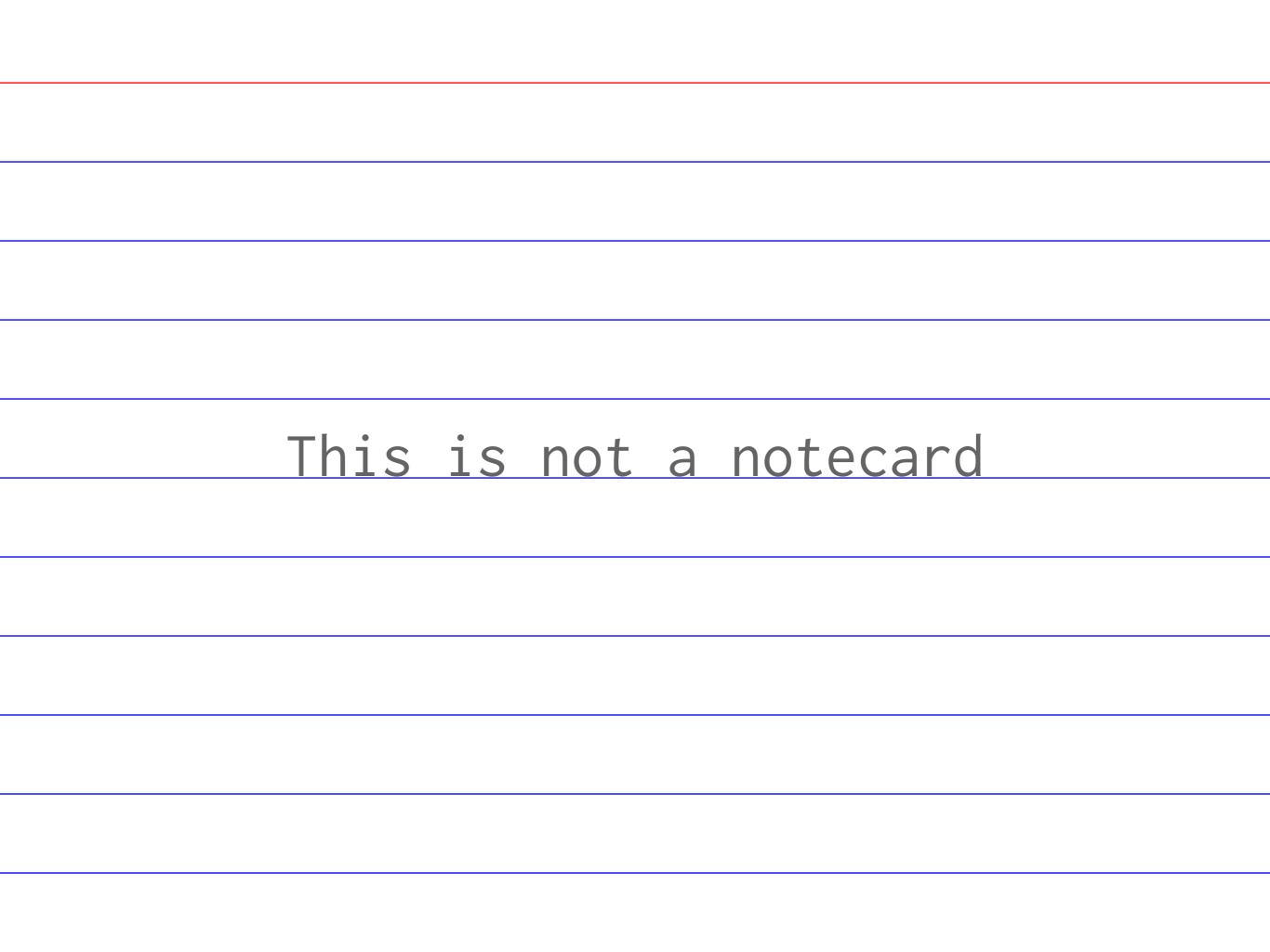
Six

Seven

Eight



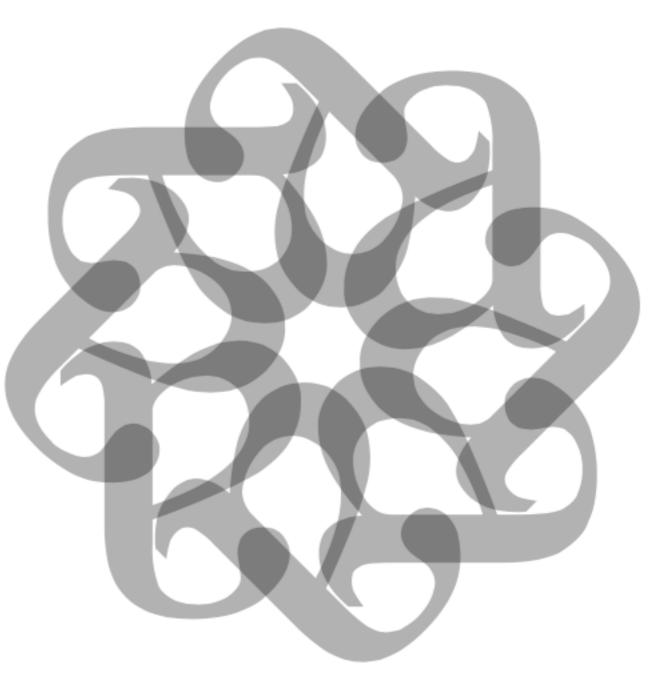
Rocks



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,
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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





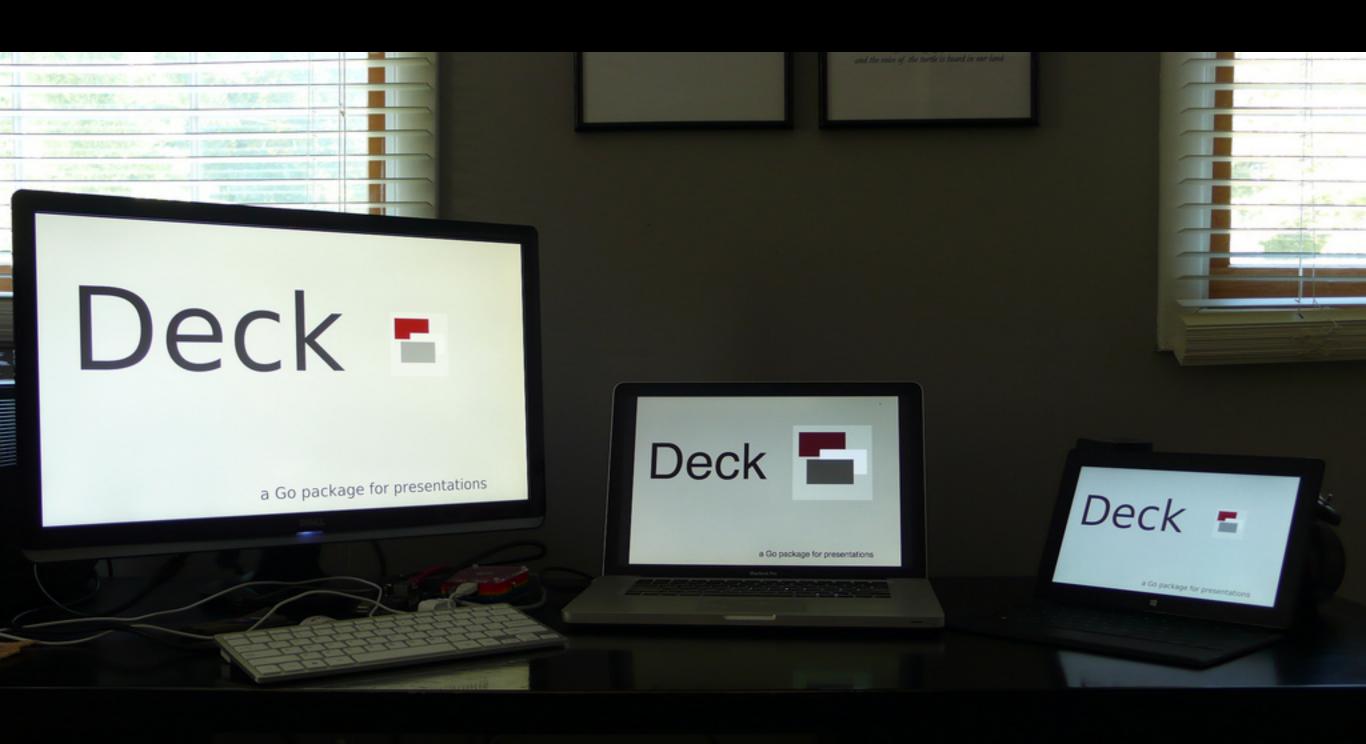
## FOR, LO,

the winter is past,

the rain is over and gone;

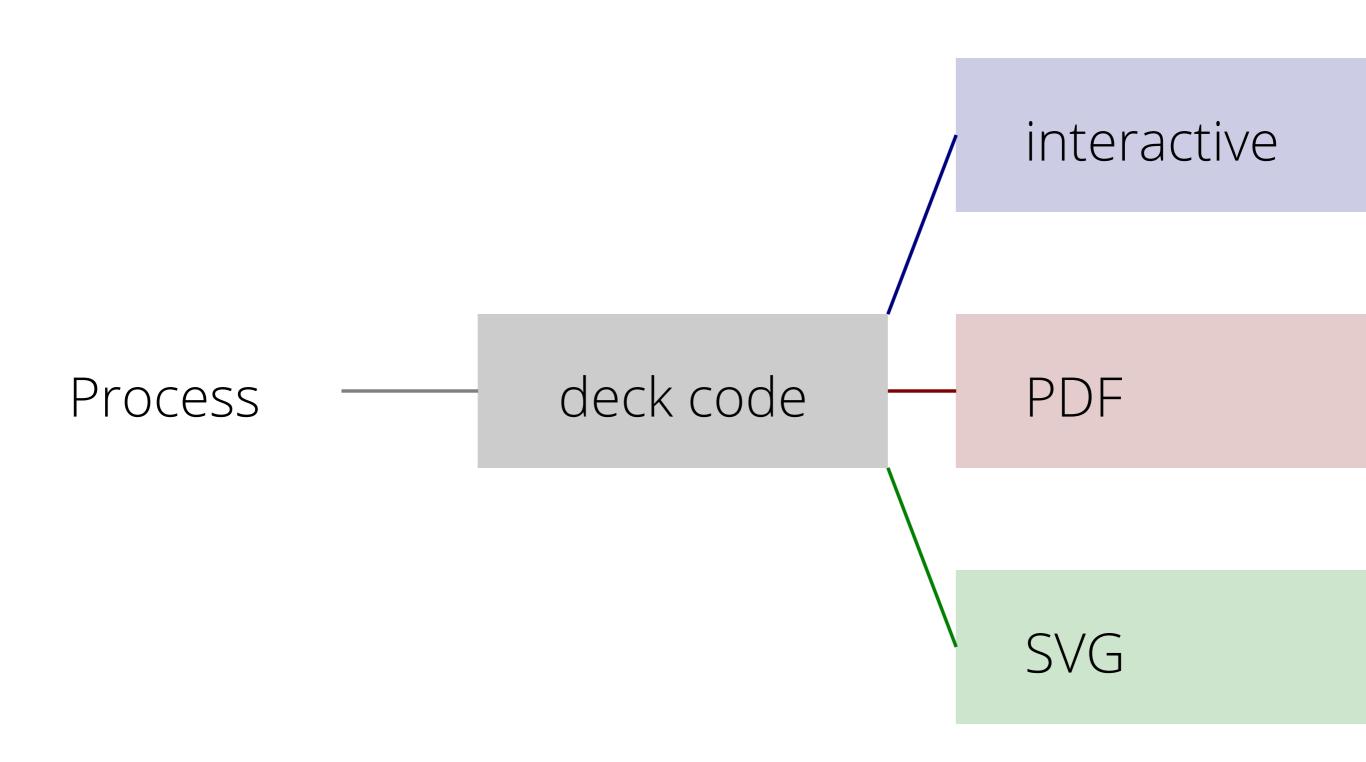
The flowers appear on the earth;

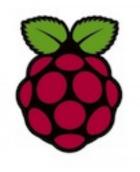
the time for the singing of birds is come,
and the voice of the turtle is heard in our land.



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 _, 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)
      }
      for _, l := range slide.List {
                                  // process the list elements
         x, y, size := deck.Dimen(presentation.Canvas, 1.Xp, 1.Yp, 1.Sp)
         slideList(x, y, size, 1)
```





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-F [text]

s, Ctrl-S

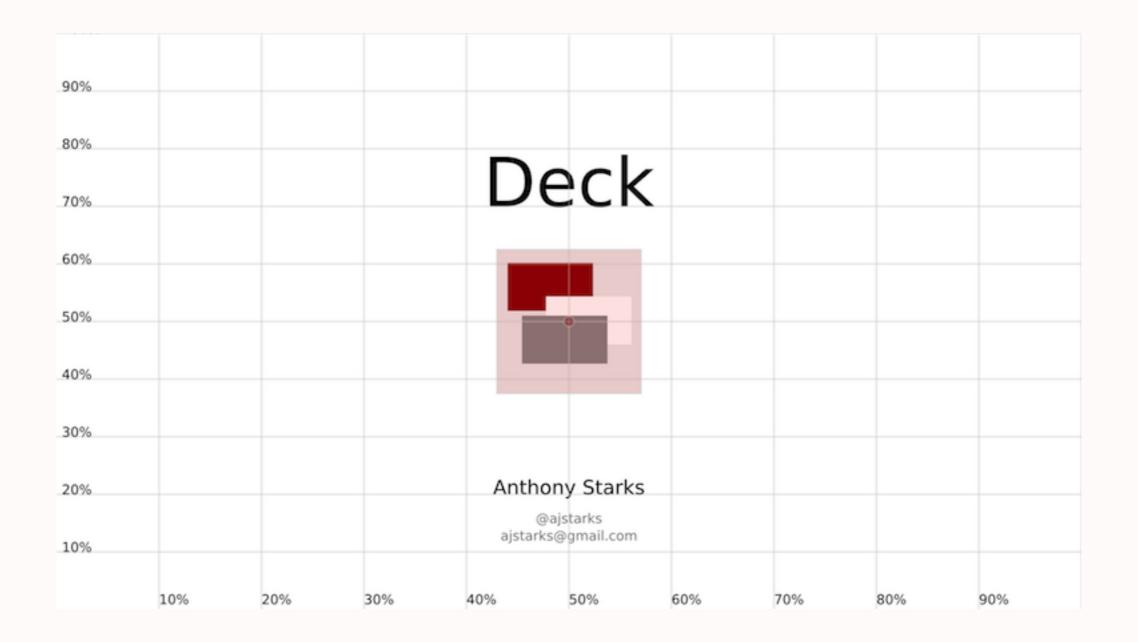
q

+, 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

Search

Save

Quit



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

## github.com/ajstarks/deck



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