# Deck



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>

#### plain

bullet

number

Point A

• First item

1. This

Point B

Second item

2. That

Point C

• The third item

3. The other

Point D

and the last thing

4. One more

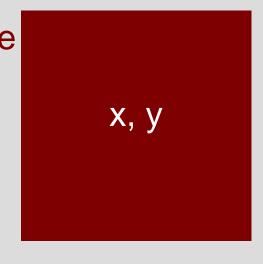
height



width

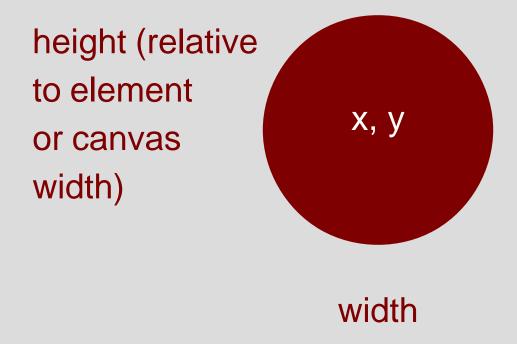
<image .../>

height (relative to element or canvas width)



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 bq="white" fq="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>

#### 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
           <text ... type="block">
Lines of code
           <text ... type="code">
Attributes
           <text ... color="..." opacity="..." font="..." align="...">
Position, size <list xp="..." yp="..." sp="...">
Bullet 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)

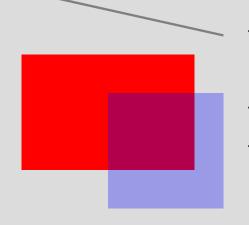
align "left", "middle", "end"

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

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

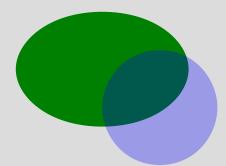
font "sans", "serif", "mono"

#### **Graphics Markup**

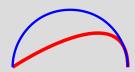


```
xp1="5" yp1="75" xp2="20" yp2="70" sp="0.2"/>
```

```
<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"/>
```

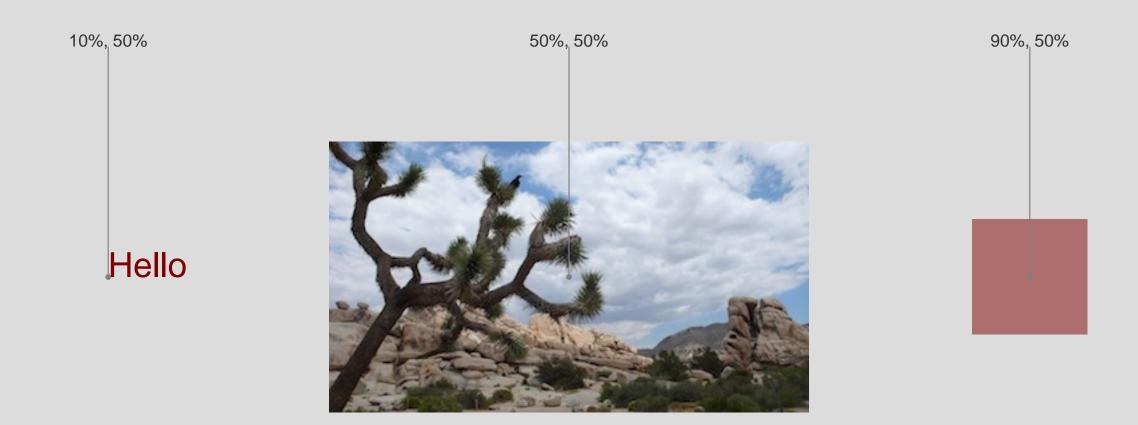


```
<ellipse xp="10" yp="35" wp="15" hr="66.66" color="green"/>
<ellipse xp="15" yp="30" wp="10" hr="100" color="blue" opacity="30"/>
```



```
<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

## Design Examples

#### Two Columns

One

Two

Three

Four



Tree and Sky

Five

Six

Seven

Eight



Rocks

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, self formatting, package managed, object oriented, easily paralellizable, cluster fuck of genius with an unique class inheritance system.

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#### The Go Programming Language

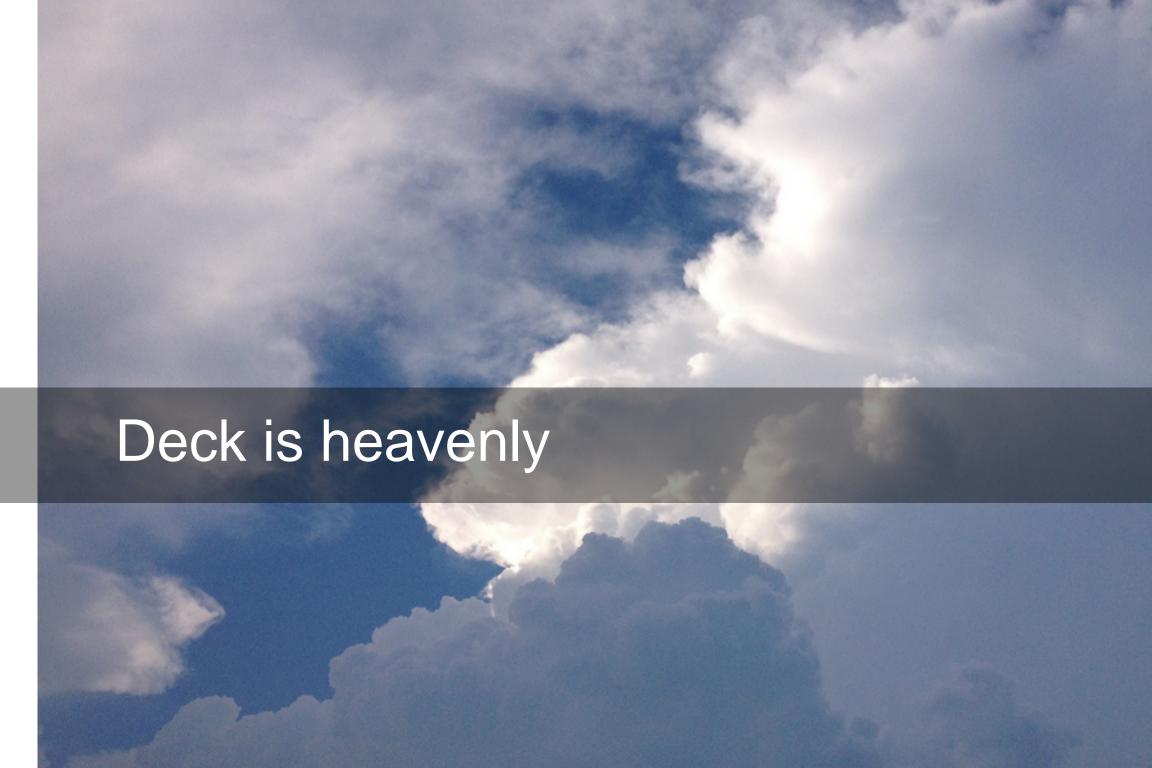
is a static typed, c lookalike, semicolon-less, self formatting, package managed, object oriented, easily paralellizable, cluster fuck of genius with an unique class inheritance system.

It doesn't have one.

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

### what would Go do

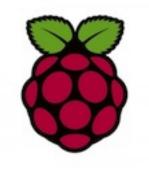




## Clients

#### A Deck Client

```
package main
import (
    "fmt"
    "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 slidenumber, slide := range presentation.Slide { // for every slide...
        fmt.Println("Processing slide", slidenumber)
        for _, t := range slide. Text { // process the text elements
           x, y, size := deck.Dimen(presentation.Canvas, t.Xp, t.Yp, t.Sp)
            dotext(x, y, size, t)
        for _, 1 := range slide.List { // process the list elements
           x, y, size := deck.Dimen(presentation.Canvas, 1.Xp, 1.Yp, 1.Sp)
           dolist(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...

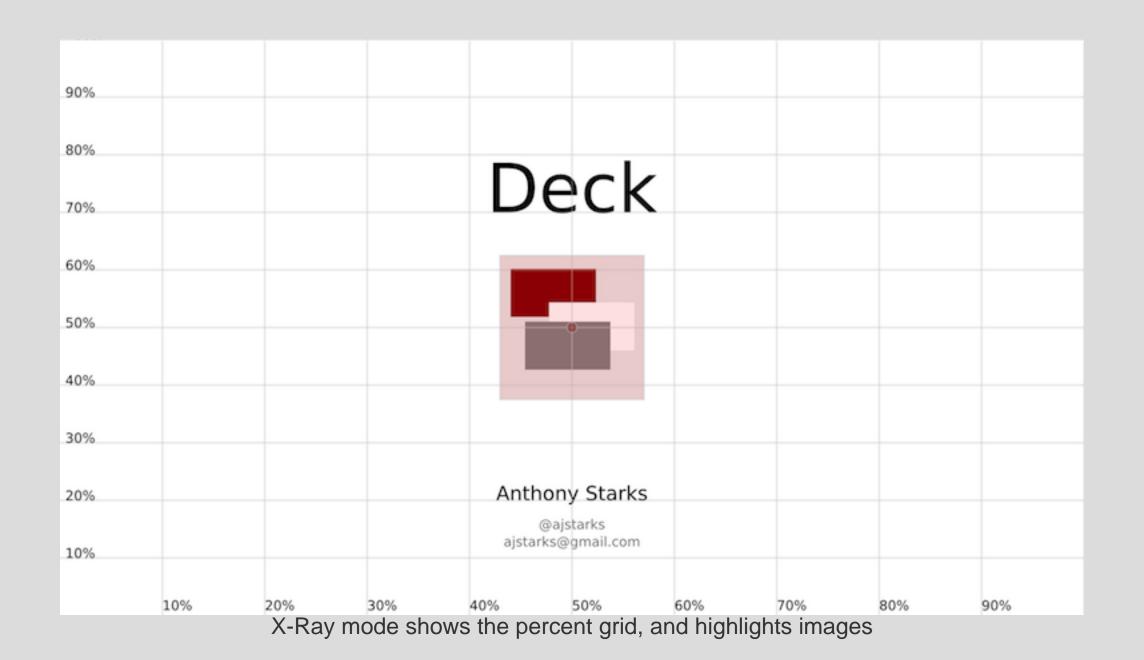
- -sans, -serif, -mono [font] specify fonts
- -pagesize [Letter, Legal, A3, A4, A5]
- -pagewidth [canvas width]
- -pageheight [canvas height]
- -stdout (output to standard out)
- -outdir [directory] directory for PDF output
- -title [title text] set the document title
- -grid [percent] draw a percent 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-N, [Return]
                                      Next slide
                                      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]
s, Ctrl-S
                                      Save
                                      Quit
q
```



## github.com/ajstarks/deck



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