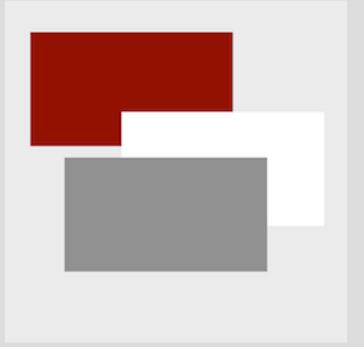
# 



a Go package for presentations

#### 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 width)

x, y

width

<rect .../>

height (relative to element or canvas width)

x, y
width

<ellipse .../>

end

<.../>

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
                           line
                                   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)"/>
                                    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
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 < xp="..." yp="..." sp="..." >
Bullet list
      <list ... type="bullet">
Numbered list list ... type="number">
```

#### Common Attributes for text and list

```
xp horizontal percentage
```

yp vertical percentage

sp font size percentage

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

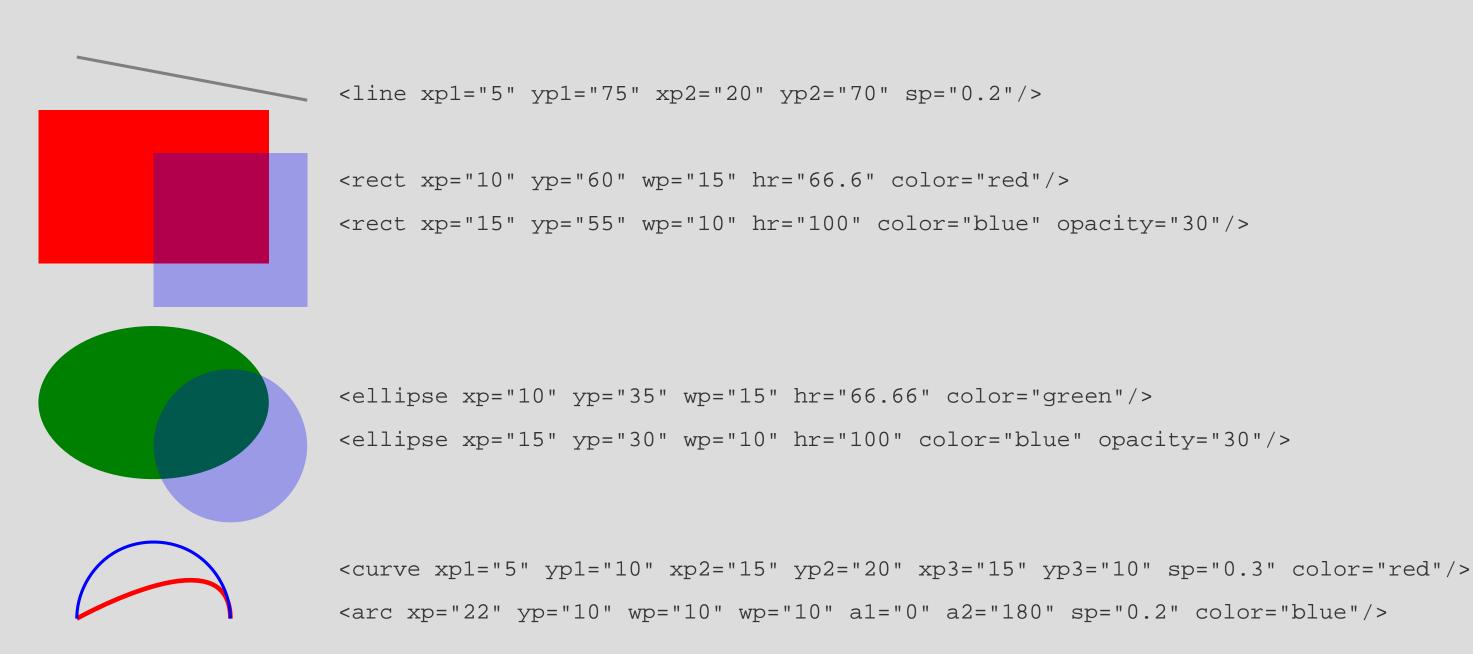
align "left", "middle", "end"

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

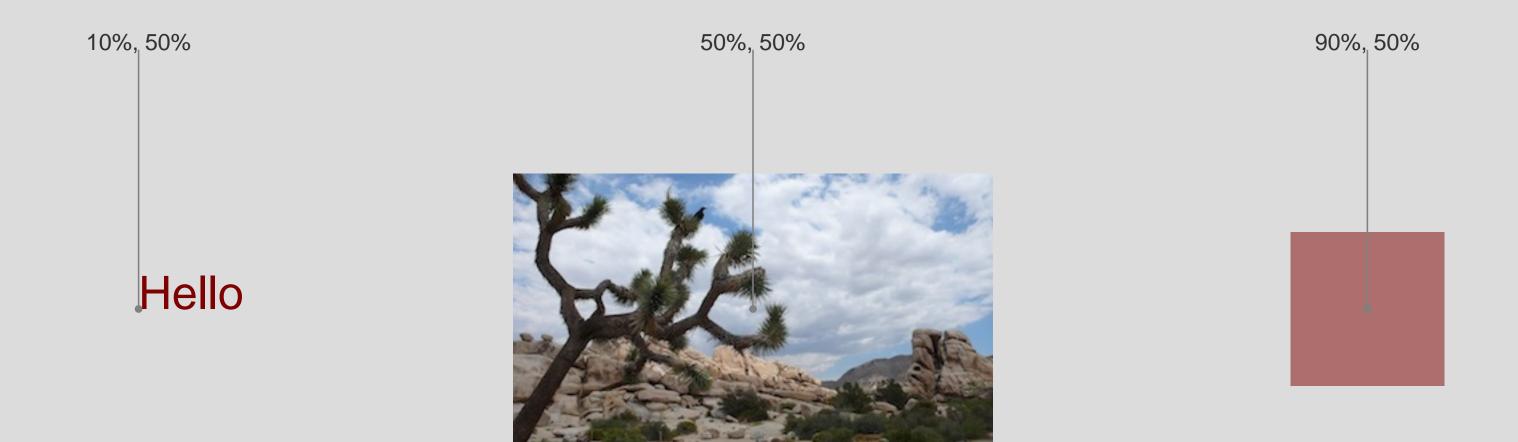
opacity percent opacity (0-100, transparent - opaque)

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

#### **Graphics Markup**







#### Percentage-based layout

#### bullet

Point A

Point B

Point C

Point D

#### plain

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and the last thing

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4. One more

</

#### bullet

- Point A
- Point B
- Point C
- Point D

#### plain

First item

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The third item

and the last thing

#### number

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

</

#### 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

# This is not a notecard

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





#### 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...

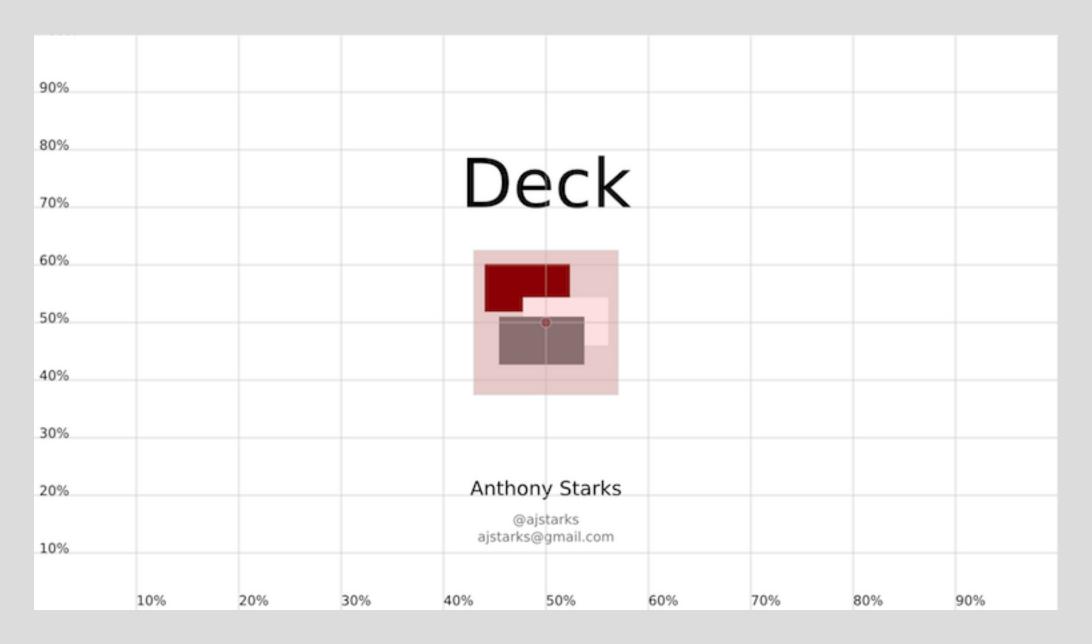
- -sans, -serif, -mono [font] specify fonts
- -pagesize [Letter, Legal, A3, A4, A5]
- -pagewidth [canvas width]
- -pageheight [canvas height]
- -stdout (output to standard out)
- -outdir [directory] directory for PDF output
- -title [title text] set the document title
- -grid [percent] draw a percent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

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



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

#### github.com/ajstarks/deck



ajstarks@gmail.com @ajstarks