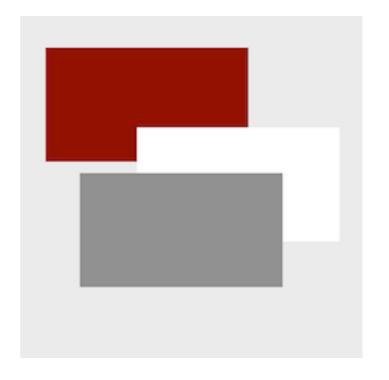
Deck



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
- the last thing

number

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

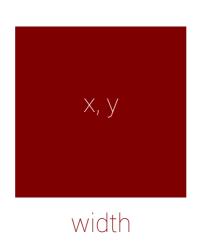
<list>...</list>



height

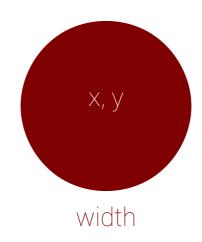
<image .../>

height (relative to element or canvas width)



<rect .../>

height (relative to element or canvas width)



<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"/>
                           <text xp="20" yp="80" sp="3">Deck uses these elements</text>
Draw some 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
                           ne
                                   xp1="20" yp1="10" xp2="30" yp2="10"/>
Draw a rectangle
                                    xp="35" yp="10" wp="4" hr="75" color="rqb(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 <list ... type="bullet">
Numbered list type="number">
```

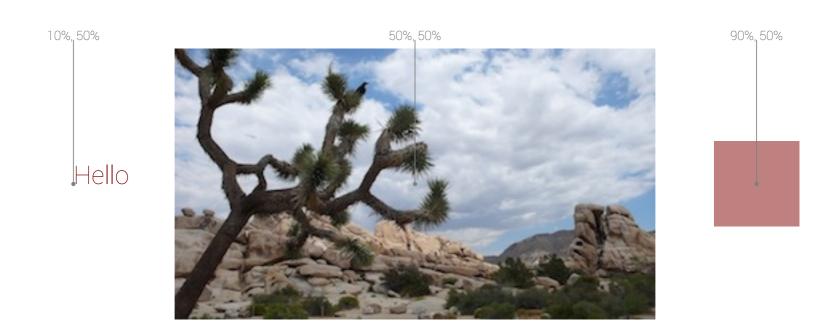
Common Attributes for text and list

xp	horizontal percentage
УР	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" al="0" a2="180" sp="0.2" color="blue"/>
```

1	0 2	0 30) 4	0 5	0 6	0 7	0 8	0 9	0
90									
80									
70									
60									
50			P	ercer	nt Gr	id			
40									
30									
20									
10									
10									



Percentage-based layout

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

t>...</list>

bullet

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

plain First i

- First item
- Second item
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- D the last thing

number

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

<list>...</list>

Design Examples

hello, world

Тор

Left

Right

ttom

20%

30%

70%

Header (top 20%) Detail Summary (30%)(70%)

Footer (bottom 20%)

BOS

Virgin America 351

Gate B38

8:35am

SHO on Time



US Airways 1207

Gate C31C

5:35pm

Delayed

AAPL 503.73 -16.57 (3.18%)

AMZN 274.03 +6.09 (2.27%)

GOOG 727.58 -12.41 (1.68%)

Two Columns



build	compile packages and dependencies
clean	remove object files
env	print Go environment information
fix	run go tool fix on packages
fmt	run gofmt on package sources
get	download and install packages and dependencies
install	compile and install packages and dependencies
list	list packages
run	compile and run Go program
test	test packages
tool	run specified go tool
version	print Go version
vet	run go tool vet on packages

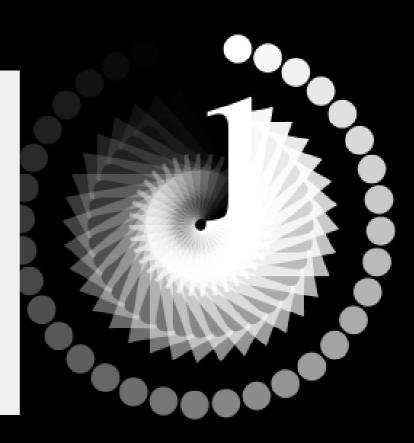
go





Code

```
package main
import (
    "github.com/ajstarks/svgo"
    "os"
func main() {
   canvas := svg.New(os.Stdout)
   width, height := 500, 500
   a, ai, ti := 1.0, 0.03, 10.0
   canvas.Start(width, height)
   canvas.Rect(0, 0, width, height)
   canvas.Gstyle("font-family:serif;font-size:144pt")
   for t := 0.0; t <= 360.0; t += ti {
       canvas.TranslateRotate(width/2, height/2, t)
       canvas.Text(0, 0, "i", canvas.RGBA(255, 255, 255, a))
       canvas.Gend()
       a -= ai
   canvas.Gend()
   canvas.End()
```



A few months ago, I had a look at the brainchild of a few serious

language, is a static typed, c lookalike, semicolon-less, self

It doesn't have one.

heavyweights working at Google. Their project, the Go programming

formatting, package managed, object oriented, easily parallelizable,

cluster fuck of genius with an unique class inheritance system.

The Go Programming Language

is a static typed,

c lookalike,

semicolon-less,

self formatting,

package managed,

object oriented,

easily parallelizable,

cluster fuck of genius

with an unique class inheritance system.

The Go Programming Language

is a static typed,

c lookalike,

semicolon-less,

self formatting,

package managed,

object oriented,

easily parallelizable,

cluster fuck of genius

with an unique class inheritance system.

The Go Programming Language

is a static typed, c lookalike, semicolon-less, self formatting, package managed, object oriented, easily parallelizable, 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



Python and Ruby programmers come to Go because they don't have to surrender much expressiveness, but gain performance and get to play with concurrency.

Less is exponentially more Rob Pike



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.

Good Design

is innovative

makes a product useful

is aesthetic

makes a product understandable

is unobtrusive

is honest

is long-lasting

is thorough down to the last detail

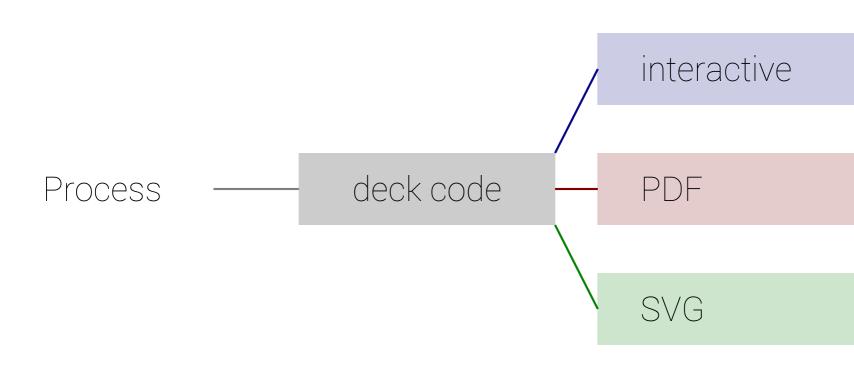
is environmentally-friendly

is as little design as possible





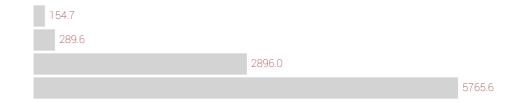
```
package main
import (
  "log"
  "github.com/ajstarks/deck"
func main() {
  presentation, err := deck.Read("deck.xml", 1024, 768) // open the deck
  if err != nil {
     log.Fatal(err)
  for _, t := range slide. Text {
                            // process the text elements
        x, y, size :=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

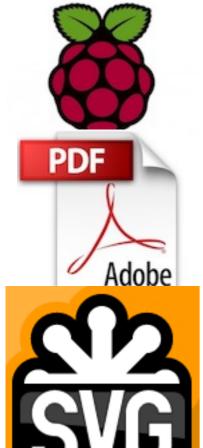


```
func main() {
    benchmarks := []Bardata{
        { "Macbook Air", 154.701 },
        {"MacBook Pro (2008)", 289.603},
        {"BeagleBone Black", 2896.037},
        {"Raspberry Pi", 5765.568},
    ts := 2.5
   hts := ts / 2
   x := 10.0
    bx1 := x + (ts * 12)
   bx2 := bx1 + 50.0
    y := 60.0
    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





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 [w,h, or Letter, Legal, Tabloid, A2-A5, ArchA, Index, 4R, Widescreen]
- -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
q	Quit

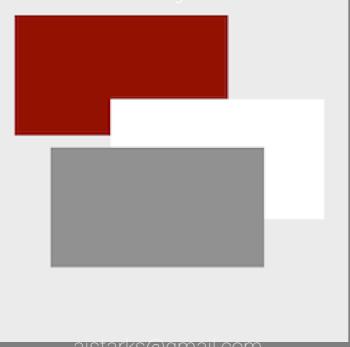
Display



Controller

- > list
- > upload
- > play/stop
- > delete

github.com/ajstarks/deck



ajstarks@gmail.com @ajstarks