

# Deck



a Go package for presentations

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## 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

```
<list>...</list>
```

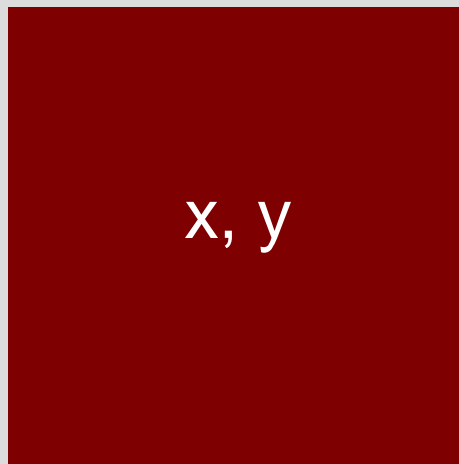
height



width

```
<image ... />
```

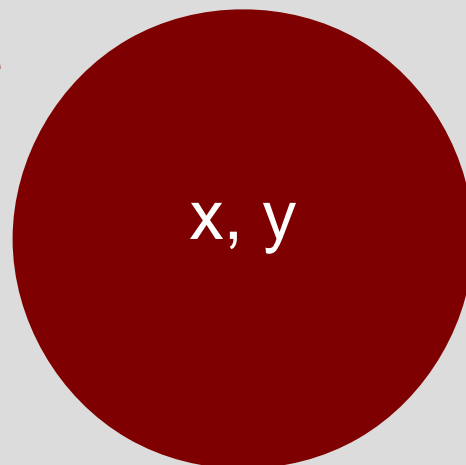
height (relative  
to element  
or canvas  
width)



width

```
<rect ... />
```

height (relative  
to element  
or canvas  
width)



width

```
<ellipse ... />
```





```
<line .../>
```



`<arc ... />`

control

start

end

<curve ... />



# Markup and Layout

Start the deck	<code>&lt;deck&gt;</code>
Set the canvas size	<code>&lt;canvas width="1024" height="768" /&gt;</code>
Begin a slide	<code>&lt;slide bg="white" fg="black"&gt;</code>
Place an image	<code>&lt;image xp="70" yp="60" width="256" height="179" name="work.png" caption="Desk"/&gt;</code>
Draw some text	<code>&lt;text xp="20" yp="80" sp="3"&gt;Deck uses these elements&lt;/text&gt;</code>
Make a bullet list	<code>&lt;list xp="20" yp="70" sp="2" type="bullet"&gt;</code> <code>&lt;li&gt;text, list, image&lt;/li&gt;</code> <code>&lt;li&gt;line, rect, ellipse&lt;/li&gt;</code> <code>&lt;li&gt;arc, curve&lt;/li&gt;</code>
End the list	<code>&lt;/list&gt;</code>
Draw a line	<code>&lt;line xp1="20" yp1="10" xp2="30" yp2="10"/&gt;</code>
Draw a rectangle	<code>&lt;rect xp="35" yp="10" wp="4" hr="75" color="rgb(127,0,0)"/&gt;</code>
Draw an ellipse	<code>&lt;ellipse xp="45" yp="10" wp="4" hr="75" color="rgb(0,127,0)"/&gt;</code>
Draw an arc	<code>&lt;arc xp="55" yp="10" wp="4" hp="3" a1="0" a2="180" color="rgb(0,0,127)"/&gt;</code>
Draw a quadratic bezier	<code>&lt;curve xp1="60" yp1="10" xp2="75" yp2="20" xp3="70" yp3="10" /&gt;</code>
End the slide	<code>&lt;/slide&gt;</code>
End of the deck	<code>&lt;/deck&gt;</code>

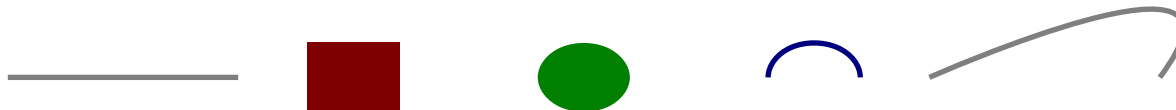
## Anatomy of a Deck

# Deck uses these elements

- text, list, image
- line, rect, ellipse
- arc, curve



Desk



# Text and List Markup

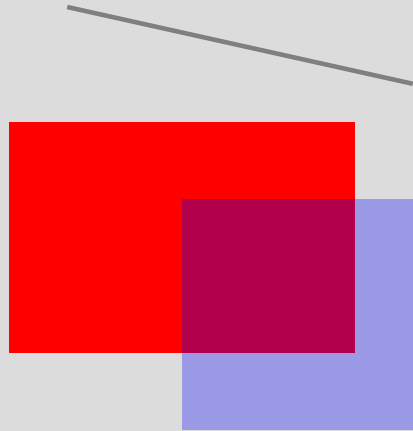
Position, size	<code>&lt;text xp="..." yp="..." sp="..."&gt;</code>
Block of text	<code>&lt;text ... type="block"&gt;</code>
Lines of code	<code>&lt;text ... type="code"&gt;</code>
Attributes	<code>&lt;text ... color="..." opacity="..." font="..." align="..."&gt;</code>
<hr/>	
Position, size	<code>&lt;list xp="..." yp="..." sp="..."&gt;</code>
Bullet list	<code>&lt;list ... type="bullet"&gt;</code>
Numbered list	<code>&lt;list ... type="number"&gt;</code>
Attributes	<code>&lt;list ... color="..." opacity="..." font="..." align="..."&gt;</code>

# Common Attributes for text and list

<code>xp</code>	horizontal percentage
<code>yp</code>	vertical percentage
<code>sp</code>	font size percentage
<code>type</code>	"bullet", "number" (list), "block", "code" (text)
<code>align</code>	"left", "middle", "end"
<code>color</code>	SVG names ("maroon"), or RGB "rgb(127,0,0)"
<code>opacity</code>	percent opacity (0-100, transparent - opaque)
<code>font</code>	"sans", "serif", "mono"



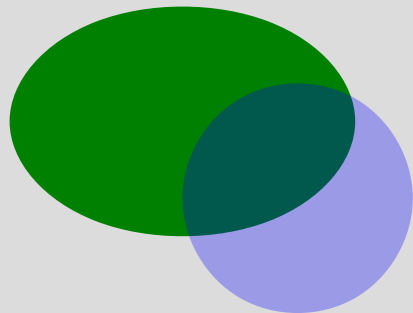
# Graphics Markup



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

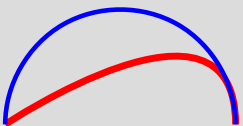
```
<rect xp="10" yp="60" wp="15" hr="66.6" color="red"/>
```

```
<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" hp="10" a1="0" a2="180" sp="0.2" color="blue"/>
```

[illegible]

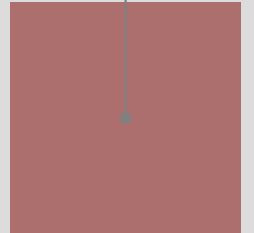
10%, 50%

Hello

50%, 50%



90%, 50%



Percentage-based layout

Design Examples

Footer

Left

Right

Header

# Two Columns

One

Two

Three

Four



Tree and Sky

Five

Six

Seven

Eight



Rocks

---

Skeuomorphism

---

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,  
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# The Go Programming Language

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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

Andrew Mackenzie-Ross, <http://pocket.co/sSc56>





Deck is heavenly

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

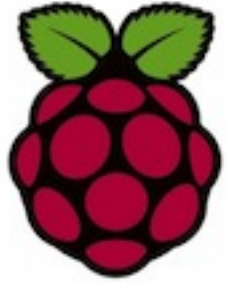
import (
    "log"
    "github.com/ajstarks/deck"
)

func main() {
    presentation, err := deck.Read("deck.xml", 1024, 768) // open the deck
    if err != nil {
        log.Fatal(err)
    }
    for _, slide := range presentation.Slide {           // for every slide...
        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, l.Xp, l.Yp, l.Sp)
            slideList(x, y, size, l)
        }
    }
}

```

A Deck Client





```
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]`

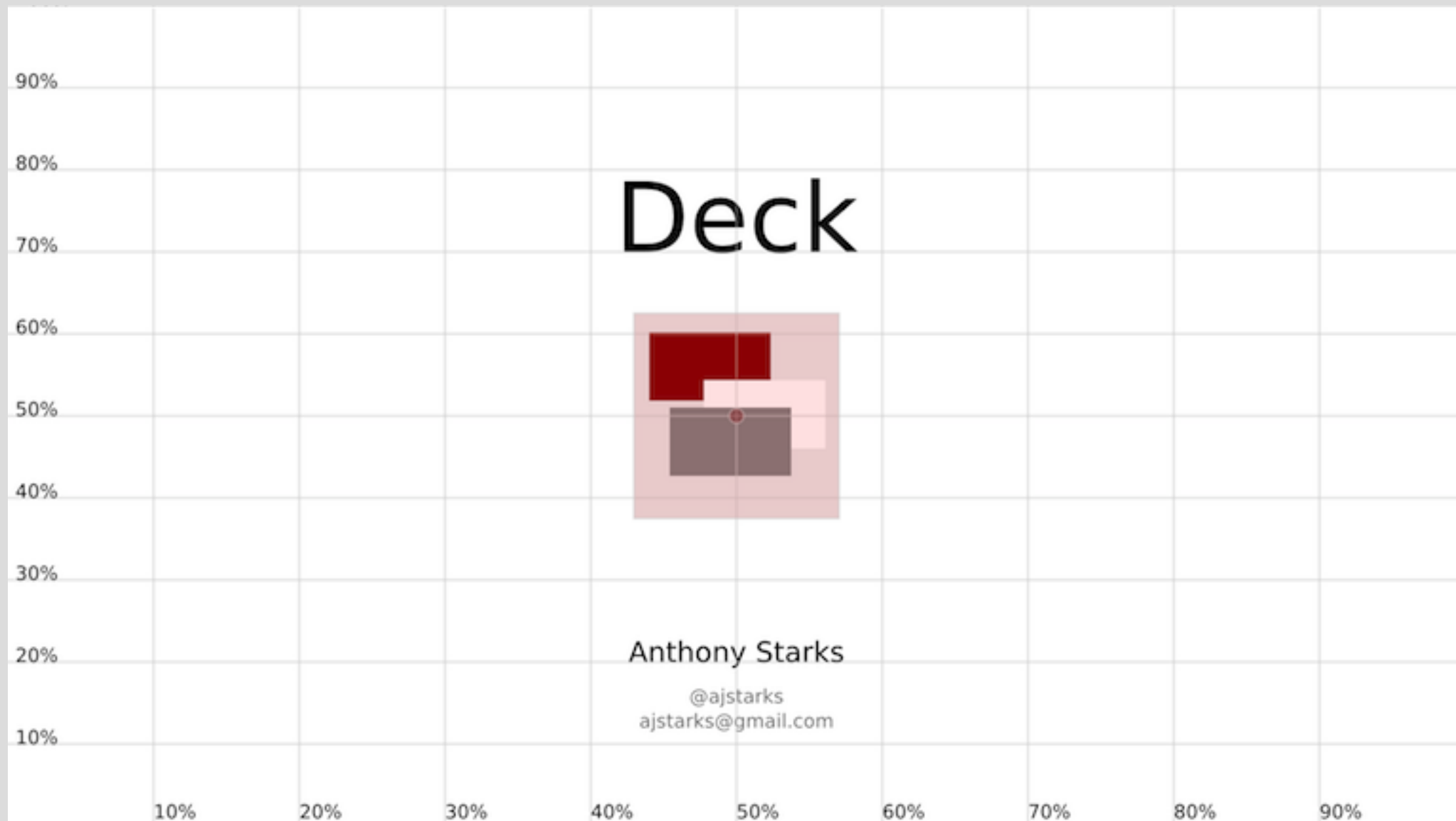
Search

`s, Ctrl-S`

Save

`q`

Quit



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

[github.com/ajstarks/deck](https://github.com/ajstarks/deck)



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