

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
and the last thing

number

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

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

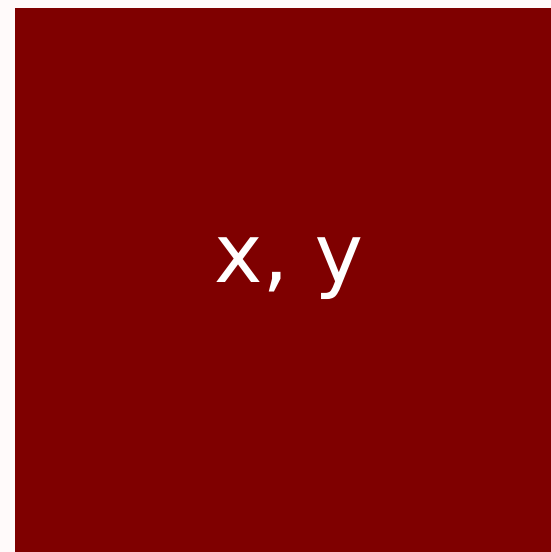
height



width

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

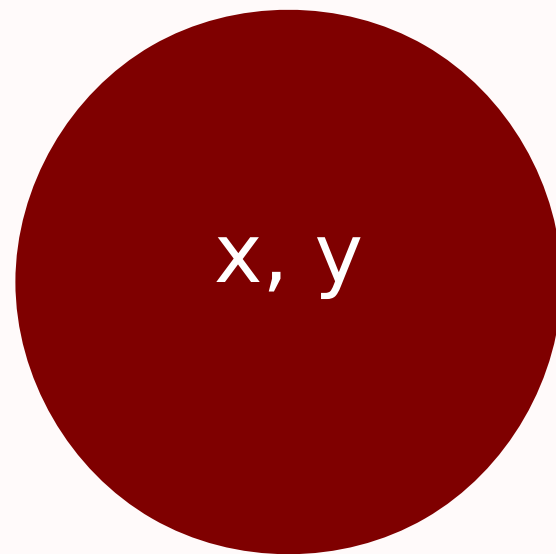
height
(relative
to element
or canvas
width)



width

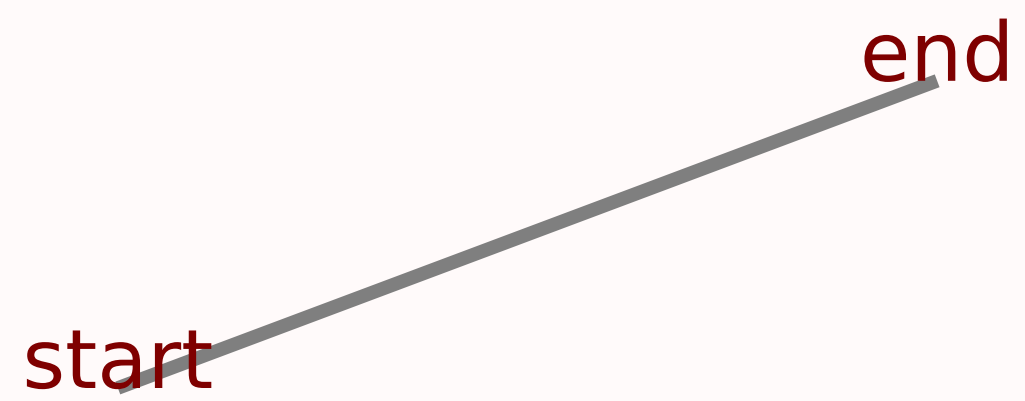
```
<rect ... />
```

height
(relative
to element
or canvas
width)



width

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

`<line .../>`

angle2 (90 deg)

x, y angle1 (0 deg)

<arc ... />

control

start

end

<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	<rect xp="35" yp="10" wp="4" hr="75" color="rgb(127,0,0)"/>
Draw an ellipse	<ellipse xp="45" yp="10" wp="4" hr="75" color="rgb(0,127,0)"/>
Draw an arc	<arc xp="55" yp="10" wp="4" hp="3" a1="0" a2="180" color="rgb(0,0,127)"/>
Draw a quadratic bezier	<curve xp1="60" yp1="10" xp2="75" yp2="20" xp3="70" yp3="10" />
End the slide	</slide>
End of the deck	</deck>

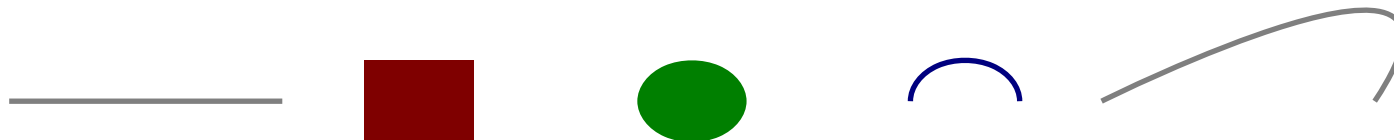
Anatomy of a Deck

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 `<list ... type="number">`

Attributes `<list ... color="..." opacity="..." font="..." align="...">`

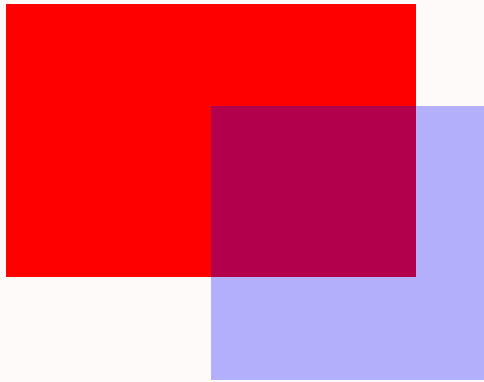
Common Attributes for text and list

<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

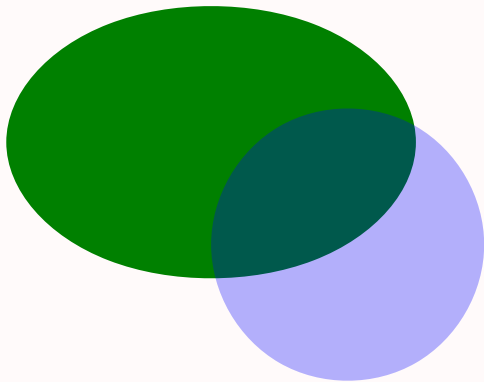


```
<line xp1="5" yp1="75" xp2="20" yp2="70" sp="0.2"/>
```



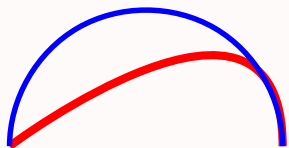
```
<rect xp="10" yp="60" wp="15" hr="66.6" color="red"/>
```

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



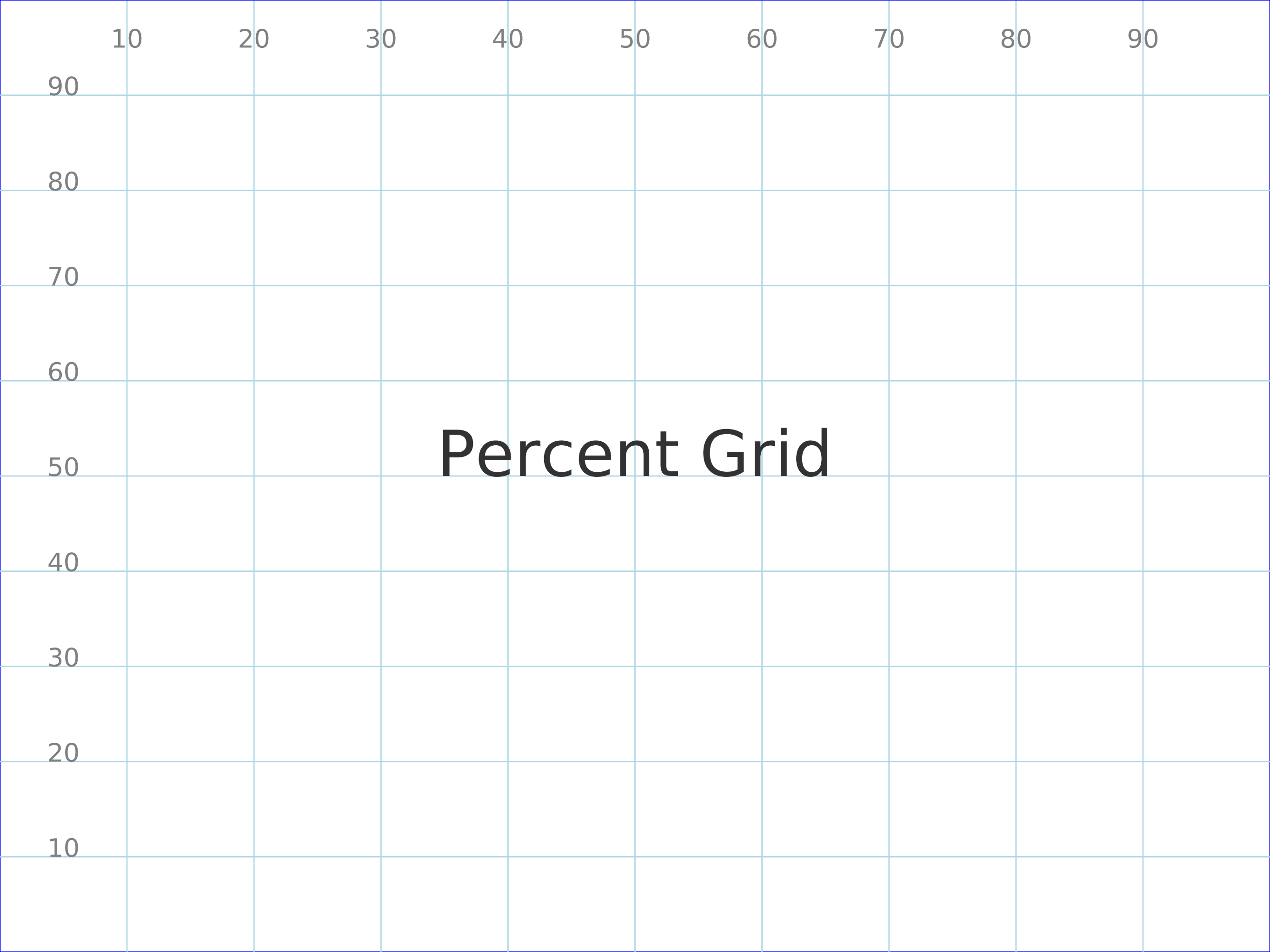
```
<ellipse xp="10" yp="35" wp="15" hr="66.66" color="green"/>
```

```
<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"/>
```



Percent Grid

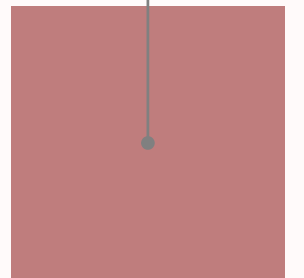
10%, 50%

Hello

50%, 50%



90%, 50%



Percentage-based layout

bullet

- Point A
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- Point C
- Point D

plain

First item
Second item
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and the last thing

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

bullet

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

Design Examples



hello, world

Top

Left

Right

Bottom

20%

30%

70%

20%

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

Rich

Can't buy me love

Bliss

Worse

Better

Misery

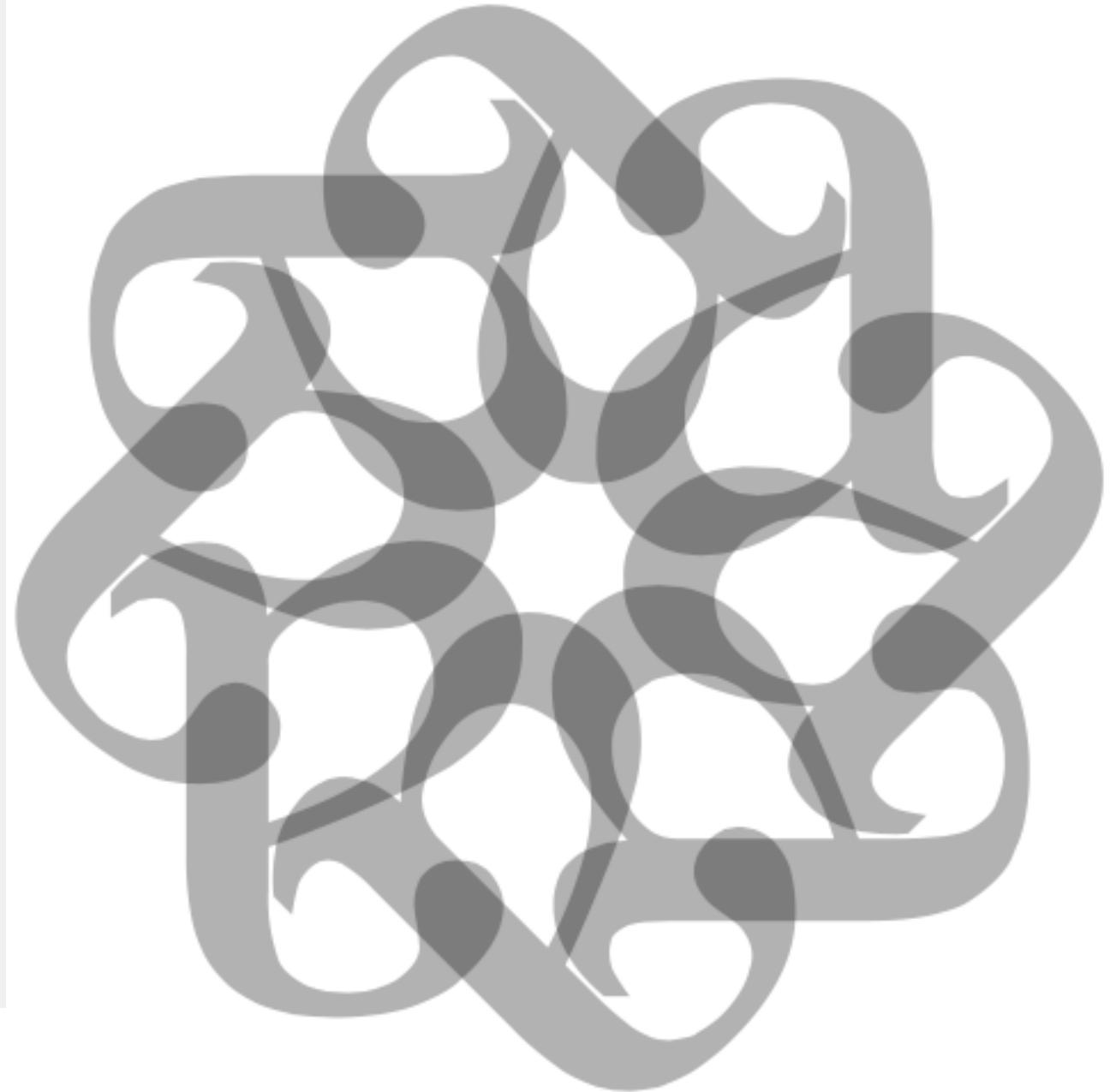
We have each other

Poor

Code

```
package main
import (
    "os"
    "github.com/ajstarks/svgo"
)
func main() {
    canvas := svgo.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()
}
```

Output



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
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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

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





You must not blame me if I do talk to the clouds.

FOR, LO,

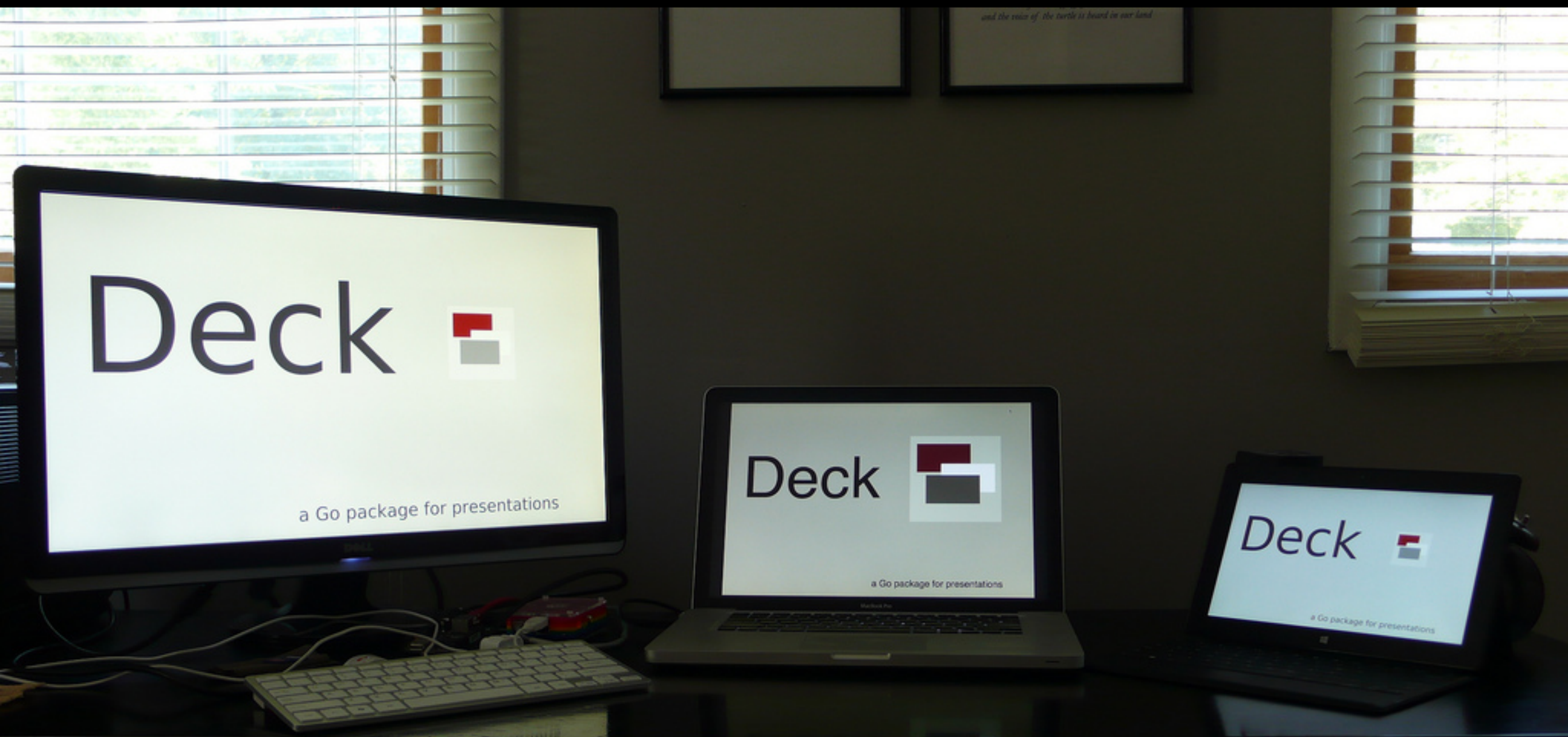
the winter is past,

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.



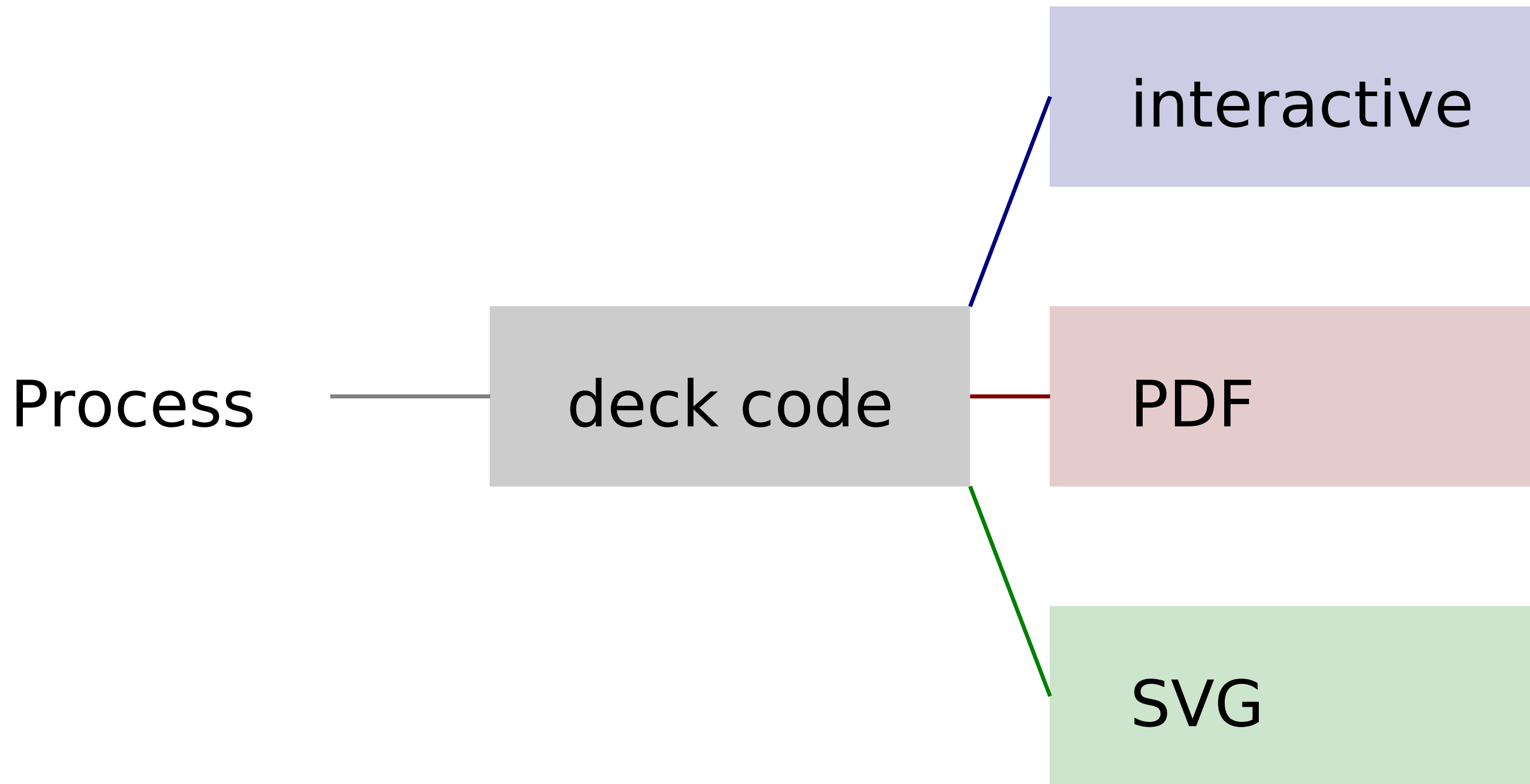
Clients

```

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]

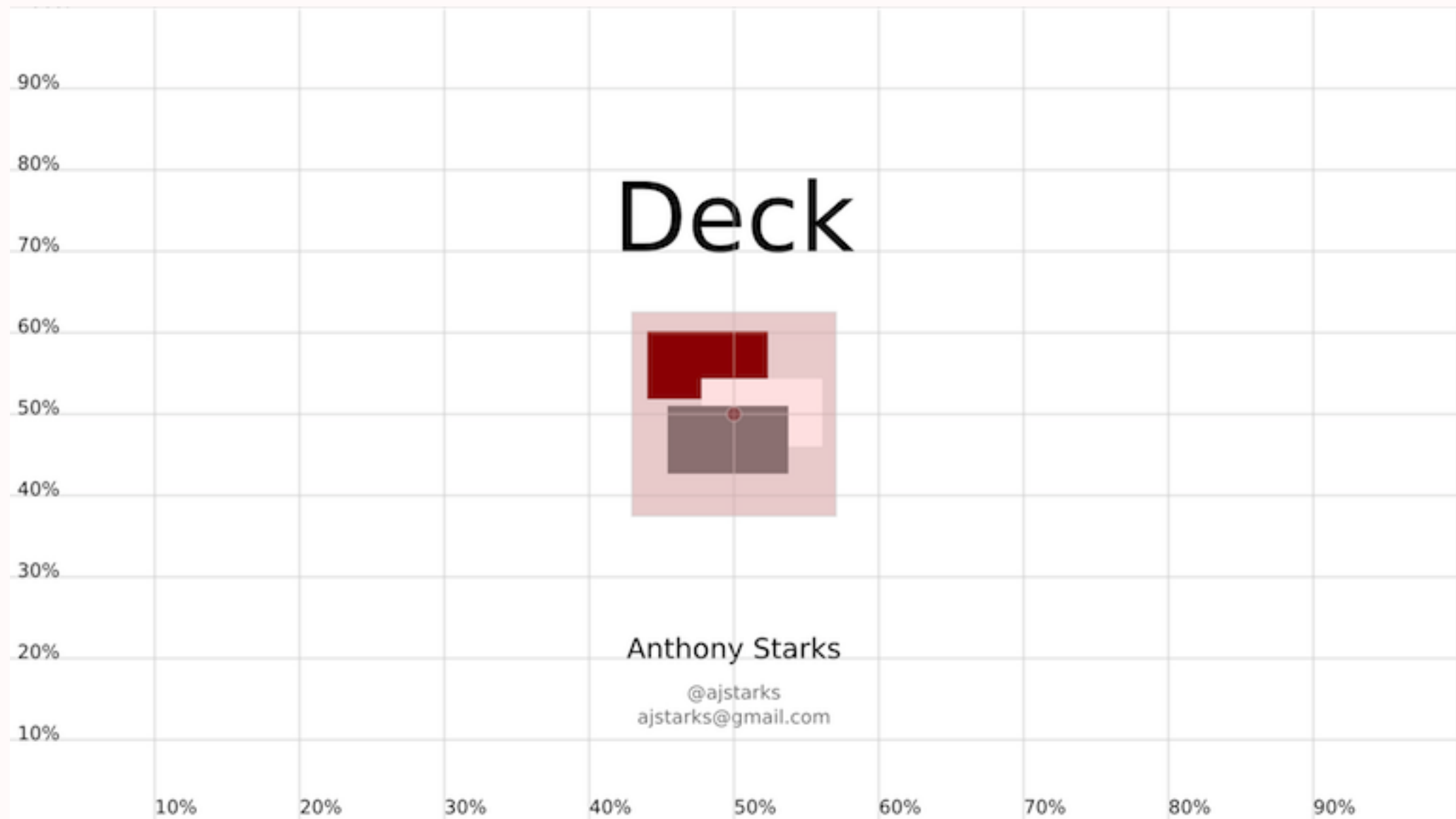
Search

s, Ctrl-S

Save

q

Quit



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

github.com/ajstarks/deck



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