Deck

Anthony J. Starks

@ajstarks

ajstarks@gmail.com

Deck is:

a Go package that enables clients to to use
the same XML markup to produce presentations
on a variety of media and formats.

Deck elements are: text, list, image, line,
rect, ellipse, arc, curve, and, layout are object
sizes are specified in percentages, resulting
in scalable slides that adapt to any size or
orientation.

Elements

Hello, World

This is a block of text, word-wrapped
to a specified width. You can specify
size, font, color, and opacity.

```
package main
import "fmt"
func main() {
    fmt.Println("Hello, World")
}
```

<text>...</text>

Item 1

Item 2

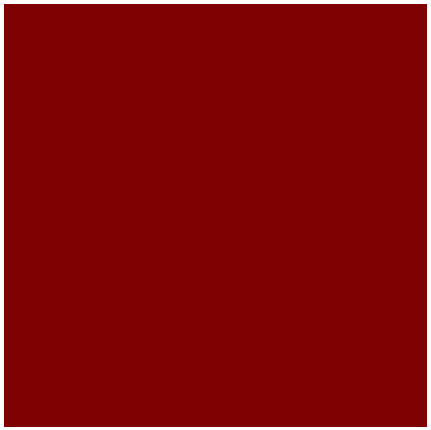
Item 3

- First item
- Second item
- The third item
- and the last thing

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

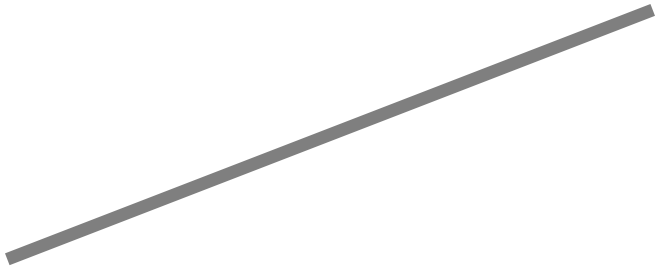
<list>...</list>

<image .../>



<rect .../>

<ellipse .../>



<line .../>

<arc .../>

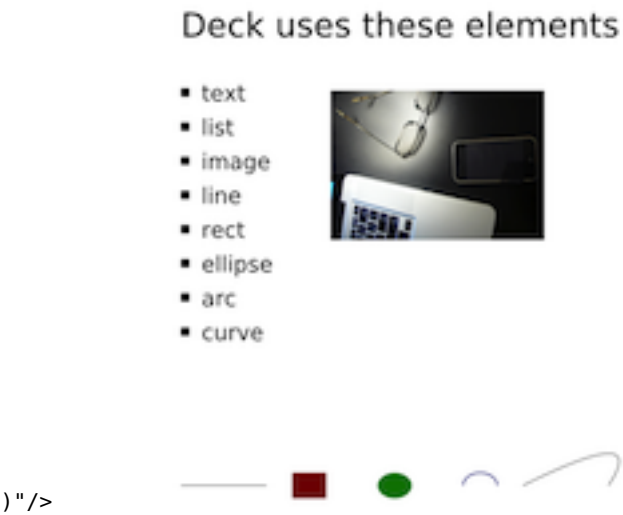
<curve .../>

Markup and Layout

Anatomy of a Deck

Start the deck
Set the canvas size
Begin a slide
Place an image
Draw some text
Make a bullet list
End the list
Draw a line
Draw a rectangle
Draw an ellipse
Draw an arc
Draw a quadratic bezier
End the slide
End of the deck

```
<deck>
  <canvas width="1024" height="768" />
  <slide bg="white" fg="black">
      <image xp="50" yp="60" width="256" height="179" name="work.png" />
      <text  xp="20" yp="80" sp="3">Deck uses these elements</text>
      <list  xp="20" yp="70" sp="2" type="bullet">
         <li>text</li>
         <li>list</li>
         <li>image</li>
         <li>line</li>
         <li>rect</li>
         <li>ellipse</li>
         <li>arc</li>
         <li>curve</li>
      </list>
      <line    xp1="20" yp1="20" xp2="30" yp2="20"/>
      <rect    xp="35"  yp="20" wp="4" hp="3" color="rgb(127,0,0)"/>
      <ellipse xp="45"  yp="20" wp="4" hp="3" color="rgb(0,127,0)"/>
      <arc     xp="55"  yp="20" wp="4" hp="3" a1="0" a2="180" color="rgb(0,0,127)"/>
      <curve   xp1="60" yp1="20" xp2="75" yp2="20" xp3="70" yp3="20" />
  </slide>
</deck>
```



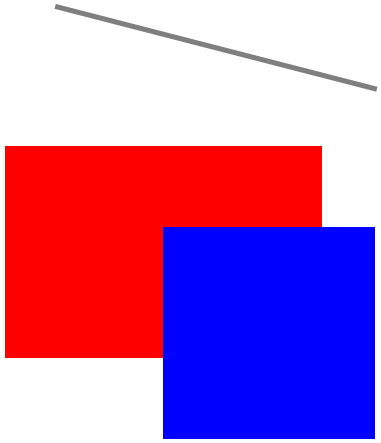
Text Markup

Position, size	`<text xp="..." yp="..." sp="...">`
Block of text	`<text ... type="block">`
Lines of code	`<text ... type="code">`
Attributes	`<text ... color="..." opacity="..." font="..." align="...">`

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`	opacity (0-1, transparent - opaque)
`font`	"sans", "serif", "mono"

Graphics Markup

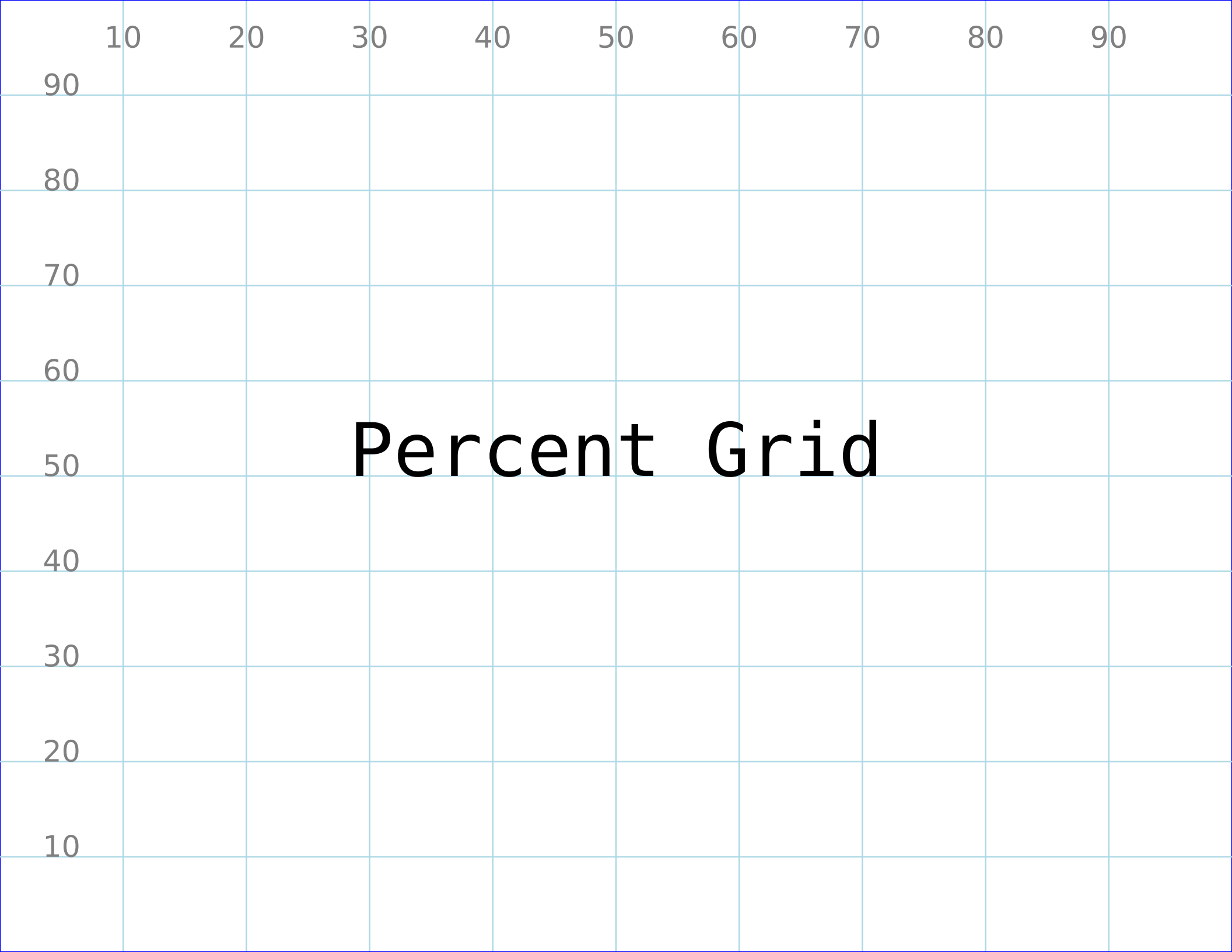


```
<line xp1="5" yp1="75" xp2="20" yp2="70" sp="0.2"/>
```

```
<rect xp="10" yp="60" wp="15" hp="10" color="red"/>
<rect xp="15" yp="55" wp="10" hp="10" color="blue" opacity="0.3"/>
```

```
<ellipse xp="10" yp="35" wp="15" hp="10" color="green"/>
<ellipse xp="15" yp="30" wp="10" hp="10" color="blue" opacity="0.3"/>
```

```
<curve xp1="5" yp1="10" xp2="15" yp2="20" xp3="15" yp3="10" sp="0.3" color="green"/>
<arc xp="20" yp="10" wp="10" wp="10" a1="0" a2="180" sp="0.2" color="blue"/>
```


10
20
30
40
50
60
70
80
90
90
80
70
60
50
40
30
20
10
Percent Grid

10%, 50%

Hello

50%, 50%

90%, 50%

Percentage-based layout

Two Columns

One

Two

Three

Four

Tree and Sky

Five

Six

Seven

Eight

Rocks

Clients

Installing and running clients

```
$ go get github.com/ajstarks/deck/vgdeck  # for the Raspberry Pi
$ go get github.com/ajstarks/deck/pdfdeck # to make PDF decks
$ vgdeck deck.xml                         # interactive session
$ pdfdeck deck.xml > deck.pdf             # make a PDF deck
```

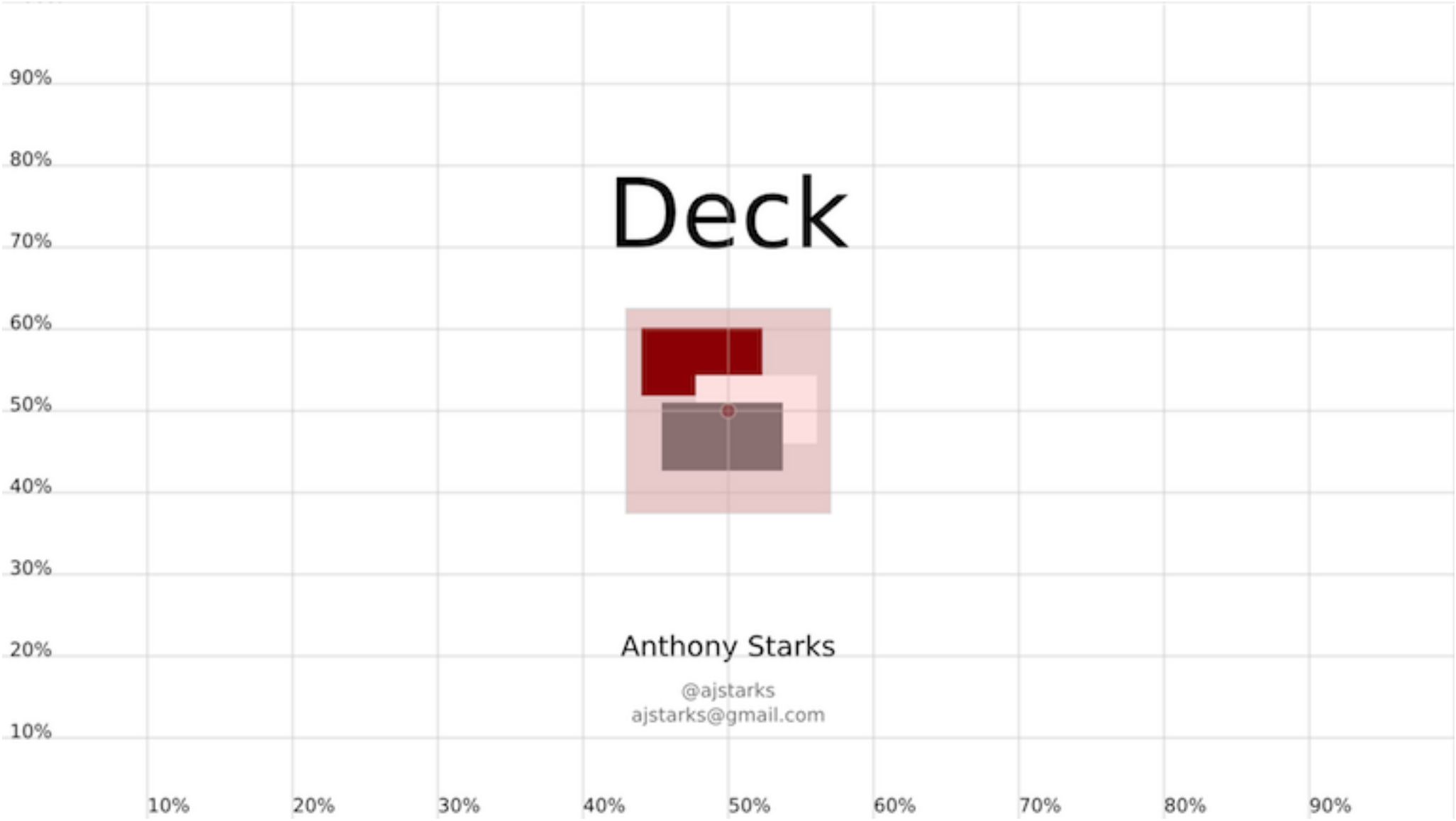
vgdeck Commands

`+, 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

All commands are a single keystroke, acted on immediately

(only the search command waits until you hit [Return] after entering your search text)

To cycle through the deck, repeatedly tap [Return] key



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

github.com/ajstarks/deck

ajstarks@gmail.com