

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

■ First item

1. This

Item 2

■ Second item

2. That

Item 3

■ The third item

3. The other

■ and the last thing

4. One more

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

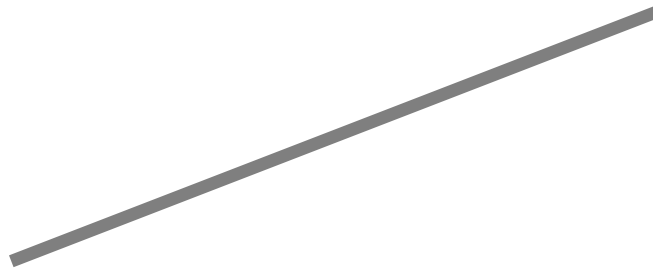


<image .../>



<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

```
<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>
```

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 uses these elements

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



Text Markup

Position, size

```
<text xp="..." yp="..." sp="...">
```

Block of text

```
<text ... type="block">
```

Lines of code

```
<text ... type="code">
```

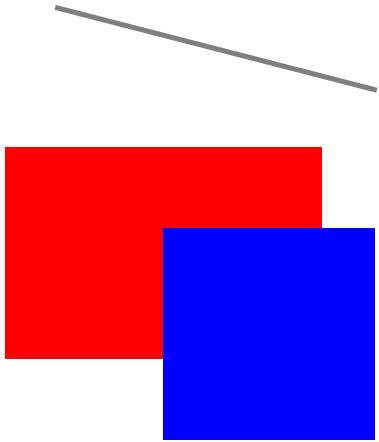
Attributes

```
<text ... color="..." opacity="..." font="..." align="...">
```

Common Attributes for text and list

<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>	opacity (0-1, transparent - opaque)
<code>font</code>	"sans", "serif", "mono"

Graphics Markup



```
<line xpl="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 xpl="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"/>
```

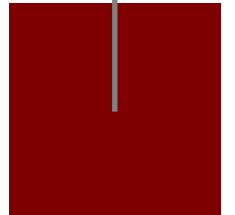

Percent Grid

10%, 50%

50%, 50%

90%, 50%

Hello



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
```

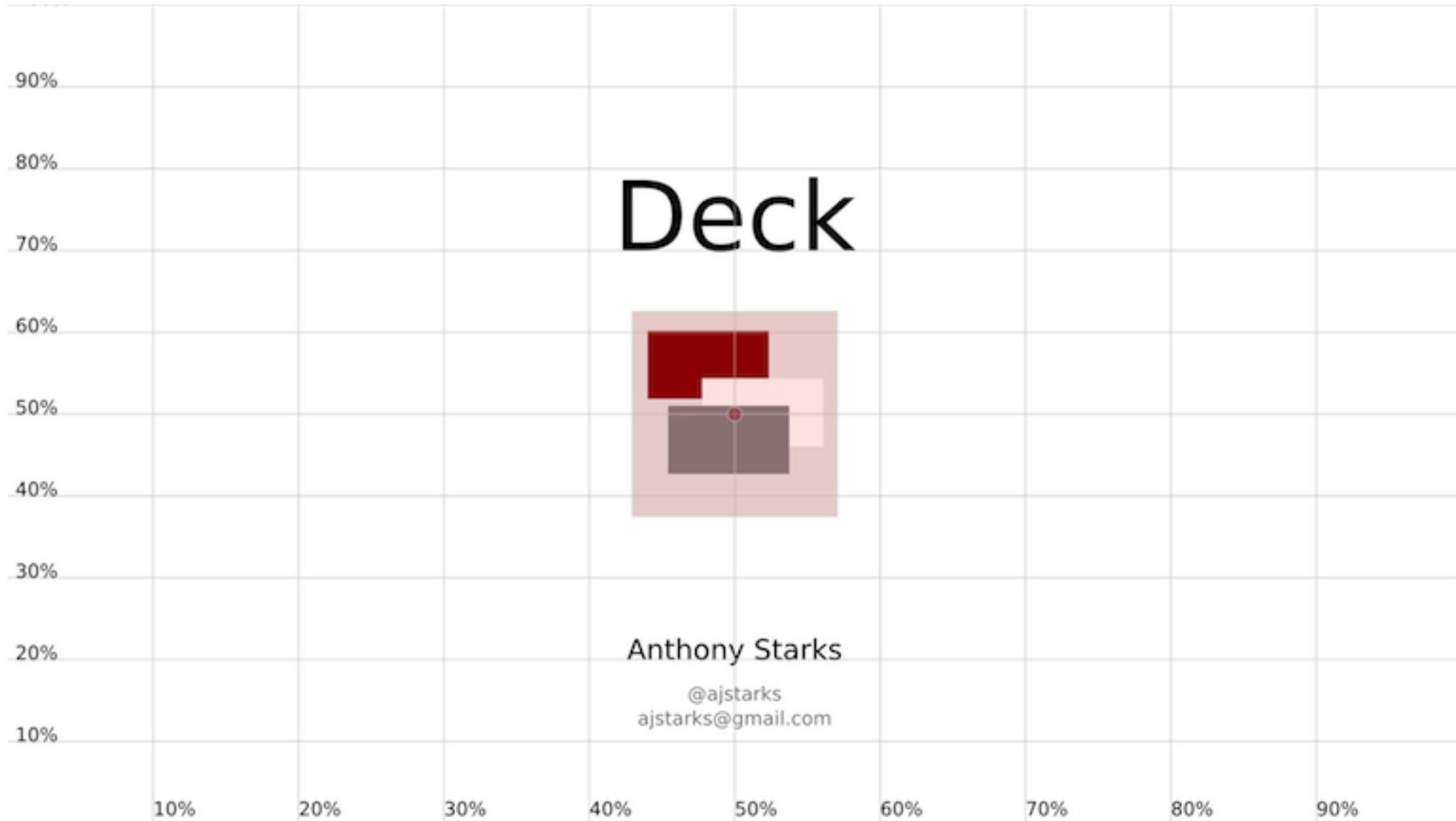
vgdeck Commands

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