

The other side of Go

Programming Pictures



Go is great in the back end

But sometimes it's about the picture

The image shows a vast, dark blue sky filled with large, white, puffy cumulus clouds. The clouds are scattered across the frame, with some appearing in the foreground and others rising towards the horizon. The lighting creates highlights on the tops of the clouds, emphasizing their three-dimensional form against the darker sky.

API Design

Client Program Design

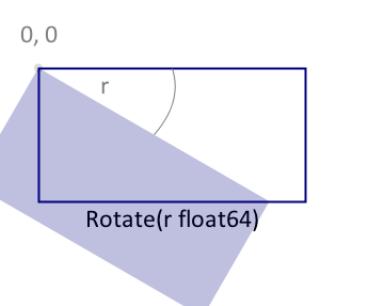
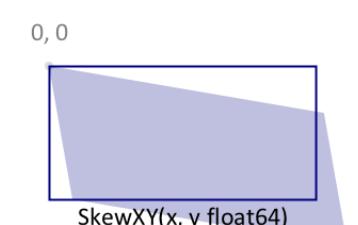
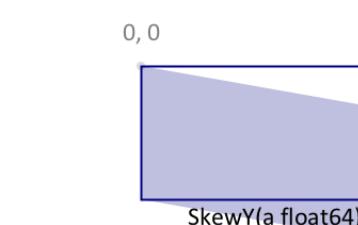
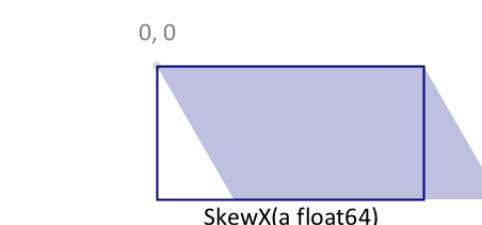
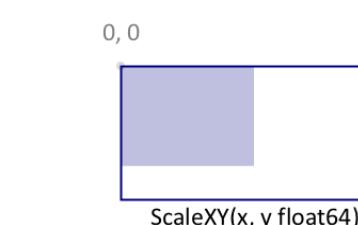
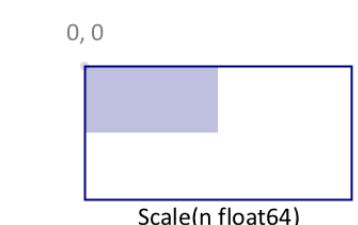
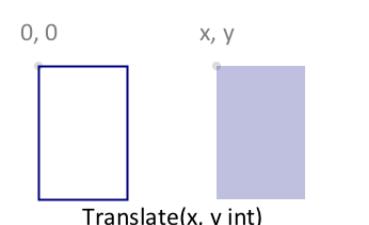
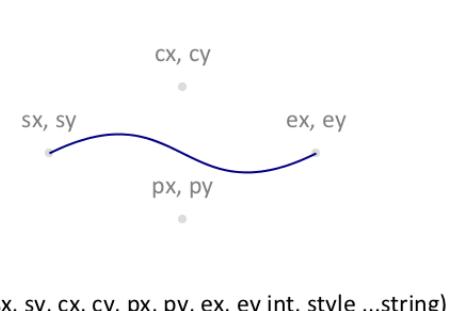
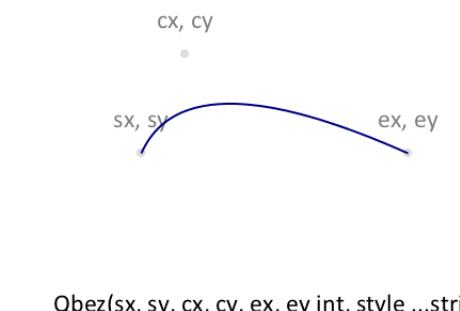
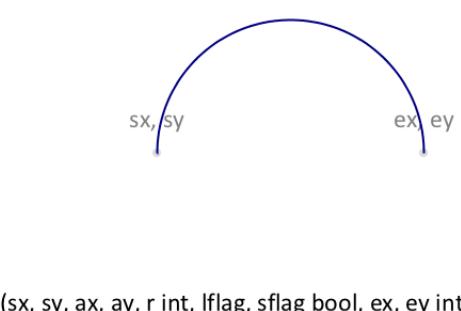
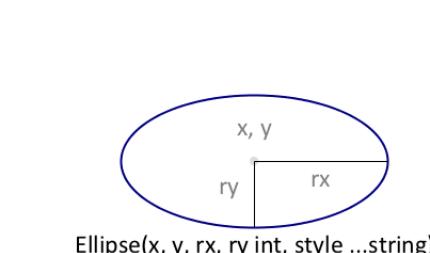
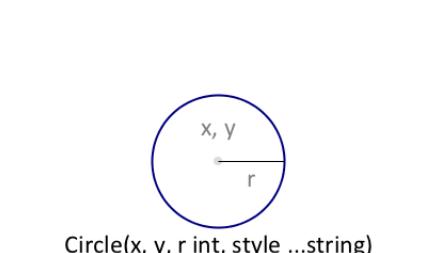
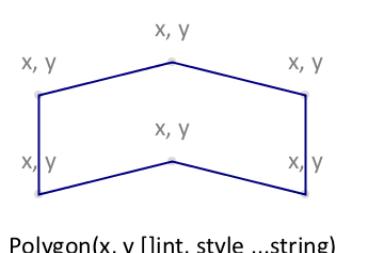
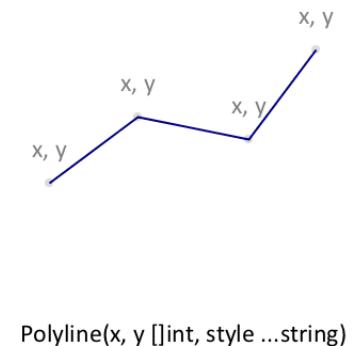
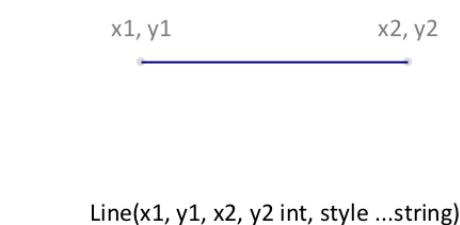
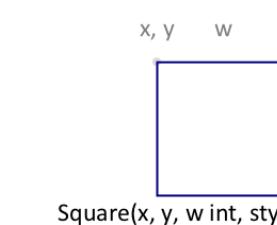
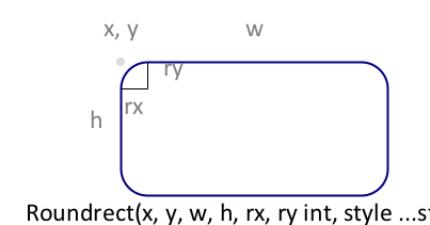
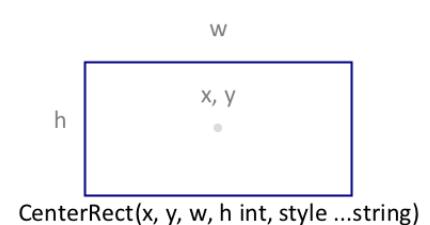
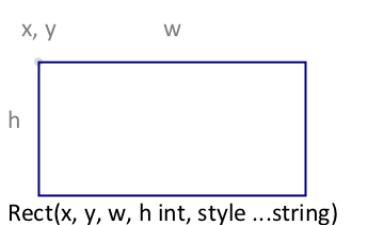
Visual Design and Relationships

Why Go?



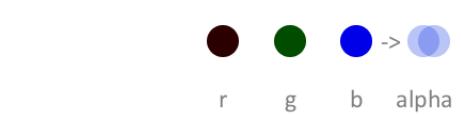
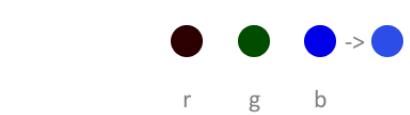
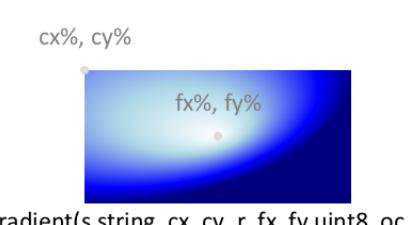
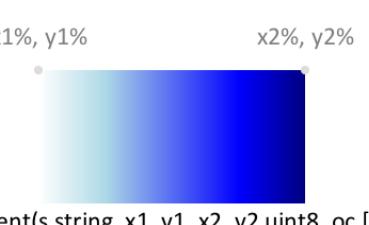
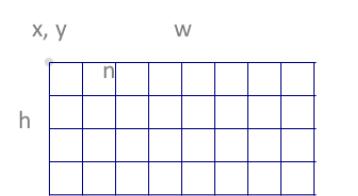
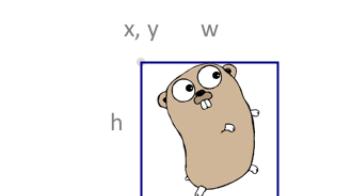
SVG Go Library

github.com/ajstarks/svg



hello, this is SVG

It's "fine" & "dandy" to draw text along a path



New(w io Writer)
 Start(w, h int, options ...string)/End()
 StartView(w, h, minx, miny, vw, vh int)
 Group(s ...string)/End()
 GStyle(s string)/End()
 GTransform(s string)/End()
 Gid(id string)/End()
 ClipPath(s ..string)/ClipEnd()
 Def()/DefEnd()
 Marker()//MarkerEnd()
 Pattern()//PatternEnd()
 Desc(s string)
 Title(s string)
 Script(type, data ...string)
 Mask(id string, x, y, w, h int, style ...string)/MaskEnd()
 Link(href string, title string)/LinkEnd()
 Use(x int, y int, link string, style ...string)

specify destination
 begin/end the document
 begin/end the document with viewport
 begin/end group with attributes
 begin/end group style
 begin/end group transform
 begin/end group id
 begin/end clip path
 begin/end a definition block
 begin/end markers
 begin/end pattern
 set the description element
 set the title element
 define a script
 begin/end mask element
 begin/end link to href, with a title
 use defined objects

Element

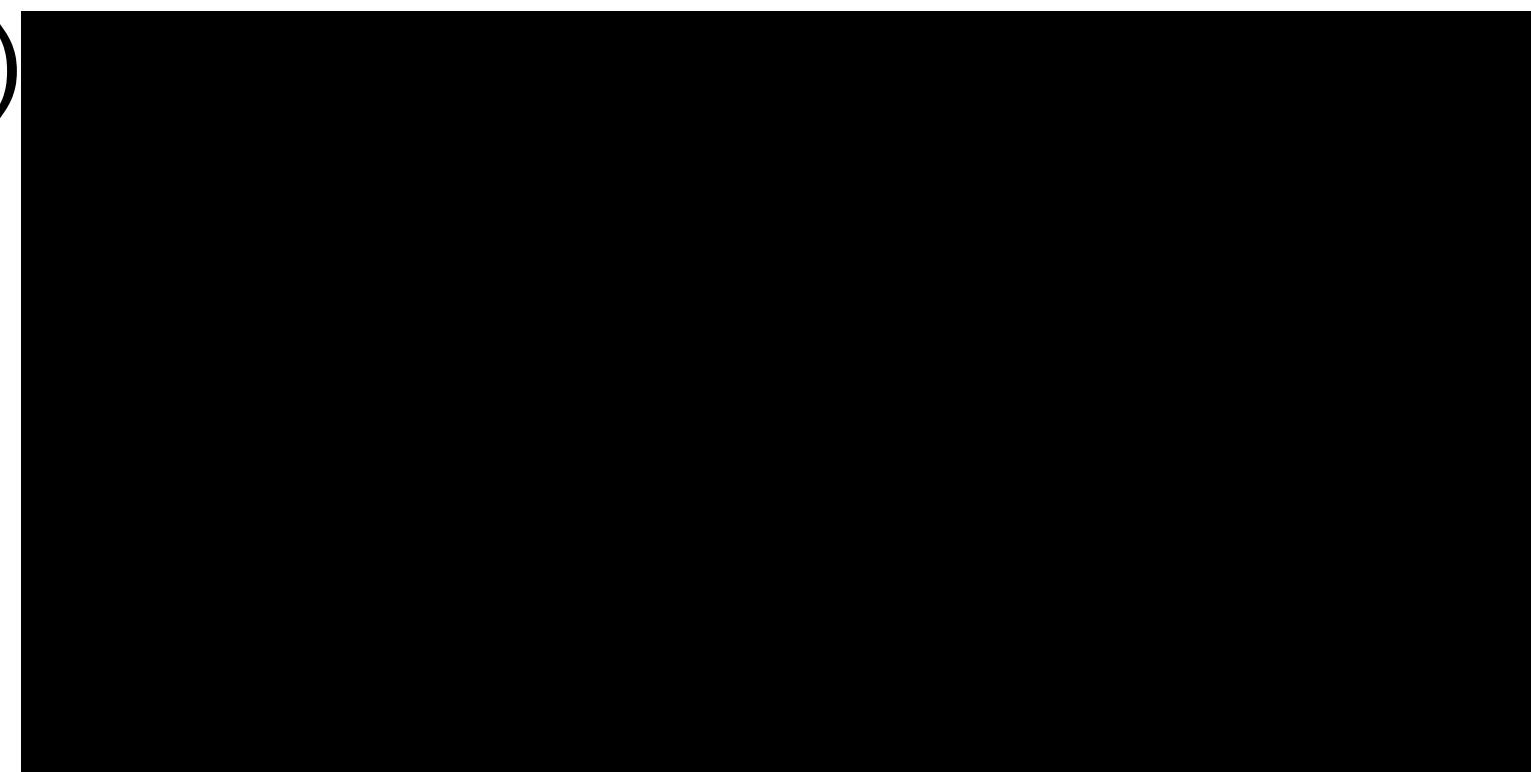
Rect

Arguments

(100,200,250,125)

```
<rect x="100" y="200" width="250" height="125"/>
```

(100, 200)



125

250

Element

Rect

Arguments

(100,200,250,125,

CSS Style

"fill:gray;stroke:blue")

```
<rect x="100" y="200" width="250" height="125"  
style="fill:gray;stroke:blue"/>
```

(100, 200)



125

250

Element

Rect

Arguments

(100,200,250,125,
`id="box"`, `fill="gray"`, `stroke="blue"`)

Attributes

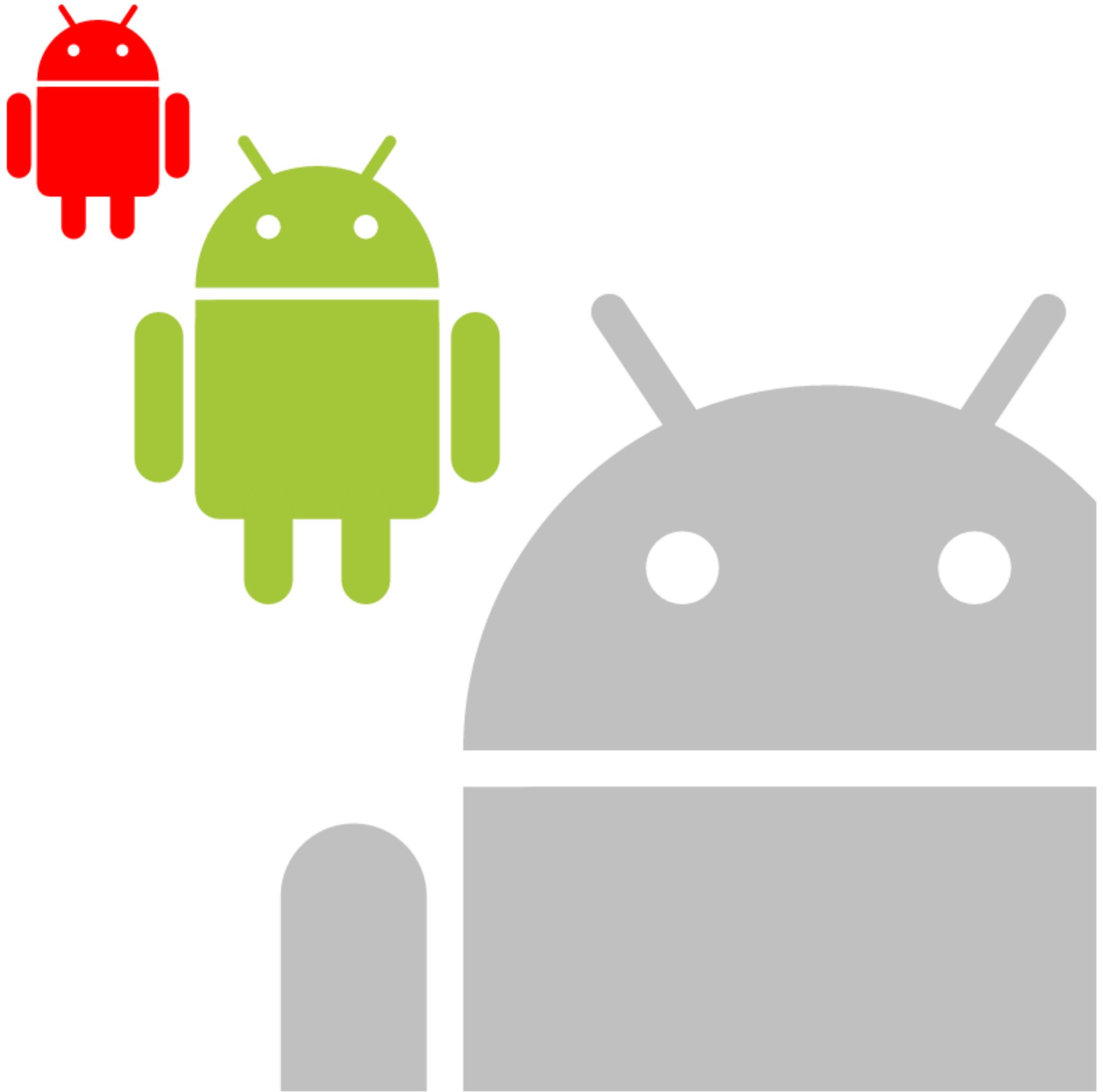
```
<rect x="100" y="200" width="250" height="125"  
id="box" fill="gray" stroke="blue"/>
```

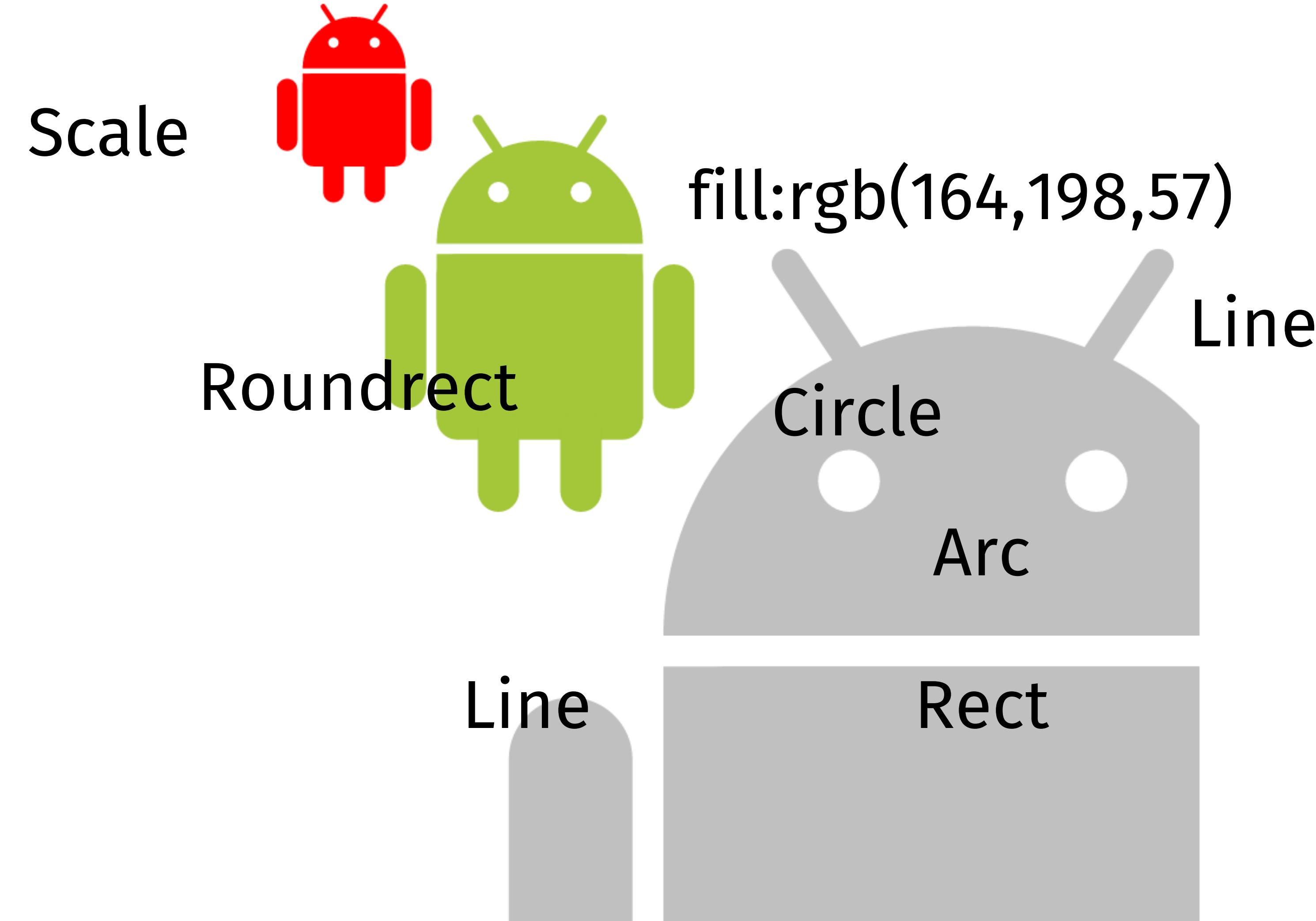
(100, 200)



125

250





```
package main

import (
    "os"
    "github.com/ajstarks/svg"
)

func main() {
    width := 600
    height := 338
    canvas := svg.New(os.Stdout)
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:black")
    canvas.Circle(width/2, height, width/2, "fill:rgb(44,77,232)")
    canvas.Text(width/2, height/2, "hello, world",
        "fill:white;font-size:60pt;font-family:serif;text-anchor:middle")
    canvas.End()
}
```



```

package main

import (
    "github.com/ajstarks/svg"
    "log"
    "net/http"
    "strings"
)

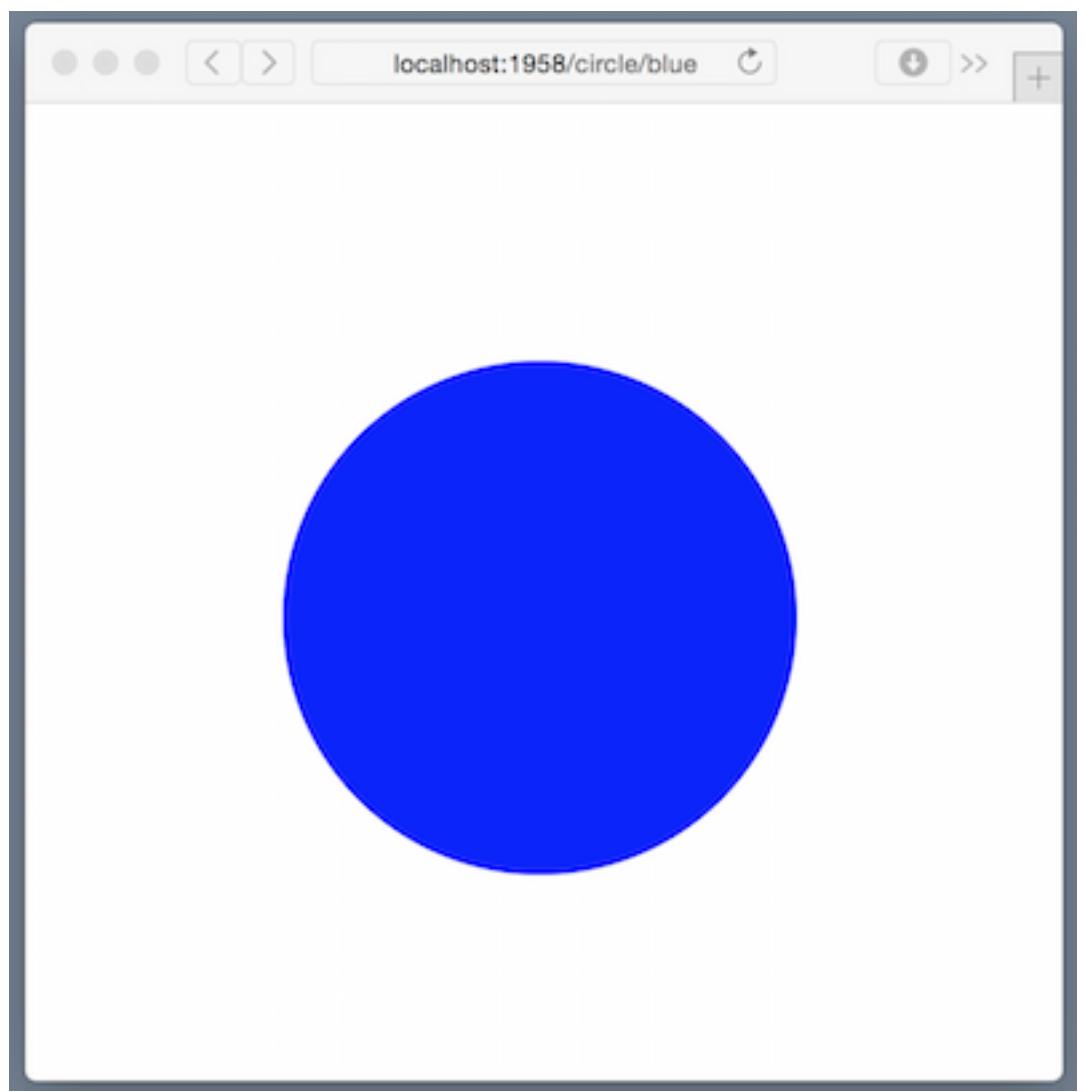
const defaultstyle = "fill:rgb(127,0,0)"

func main() {
    http.Handle("/circle/", http.HandlerFunc(circle))
    err := http.ListenAndServe("localhost:1958", nil)
    if err != nil {
        log.Println("ListenAndServe:", err)
    }
}

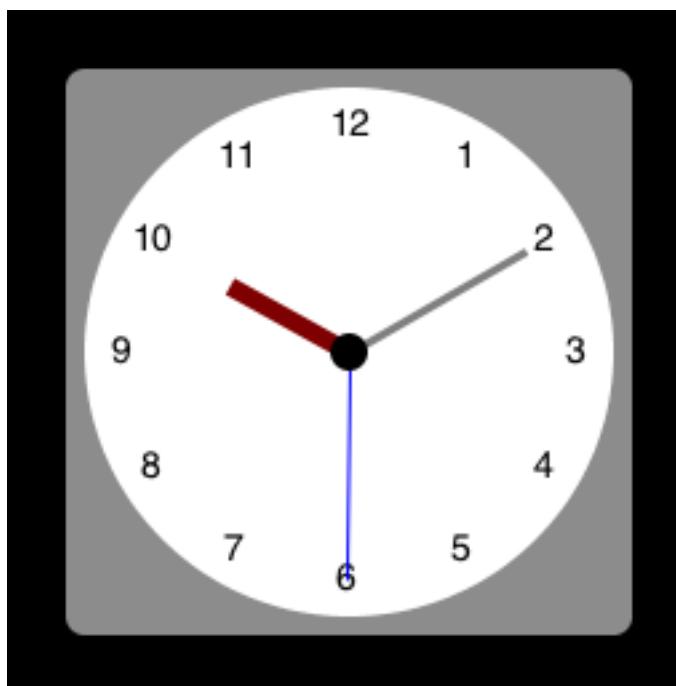
func circle(w http.ResponseWriter, req *http.Request) {
    w.Header().Set("Content-Type", "image/svg+xml")
    s := svg.New(w)
    s.Start(500, 500)
    s.Title("Circle")
    s.Circle(250, 250, 125, shapestyle(req.URL.Path))
    s.End()
}

func shapestyle(path string) string {
    i := strings.LastIndex(path, "/") + 1
    if i > 0 && len(path[i:]) > 0 {
        return "fill:" + path[i:]
    }
    return defaultstyle
}

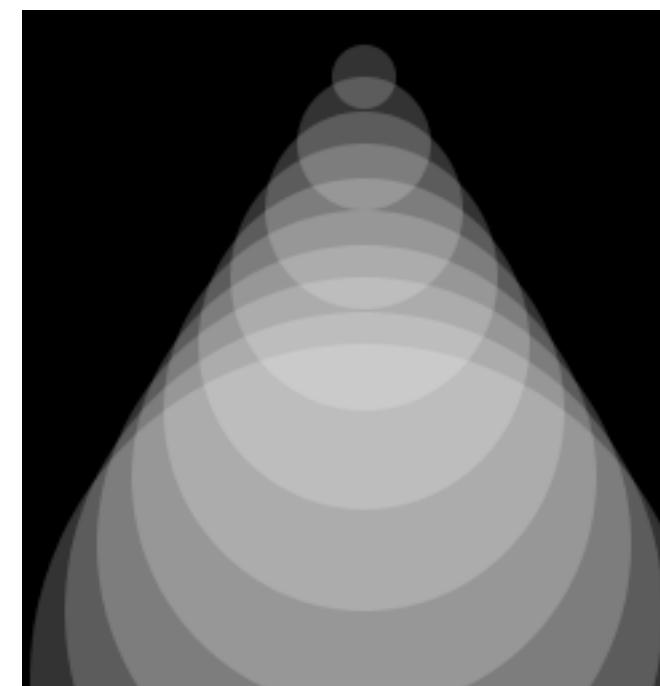
```



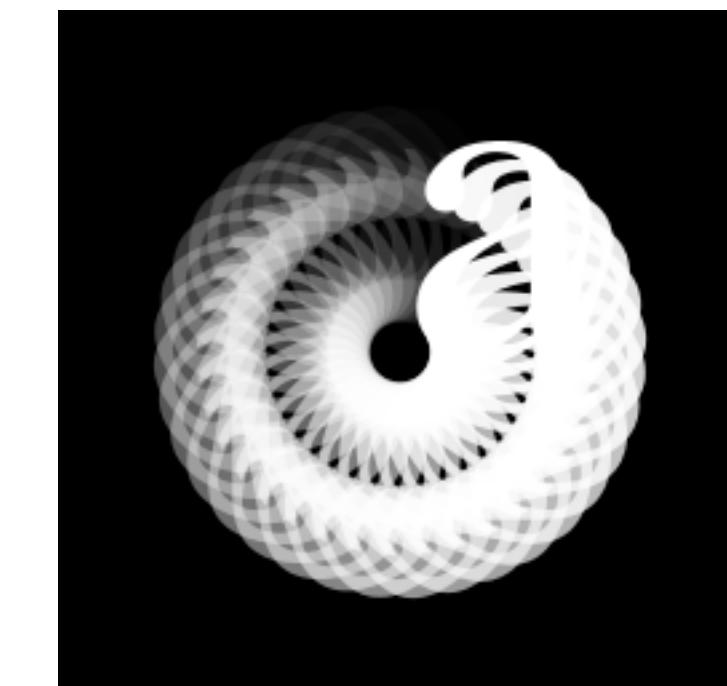
<http://ajstarks.org:1958/{thing}/>



clock



funnel



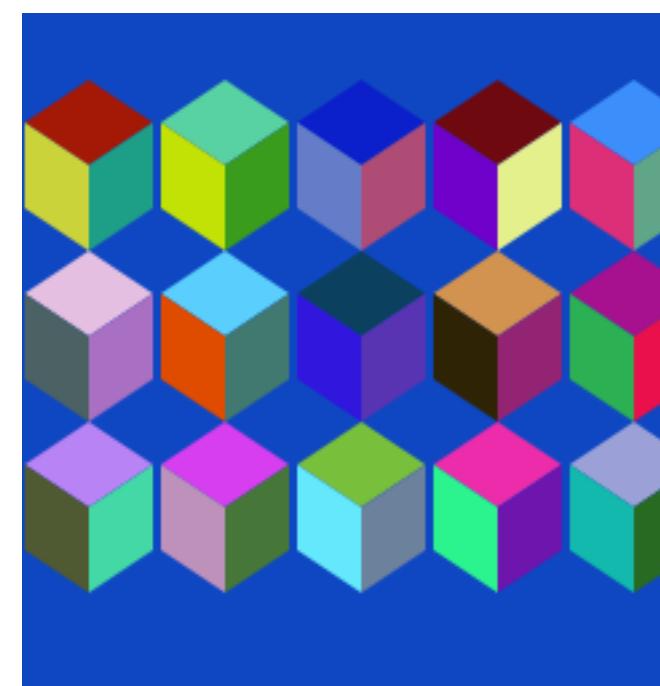
rotext



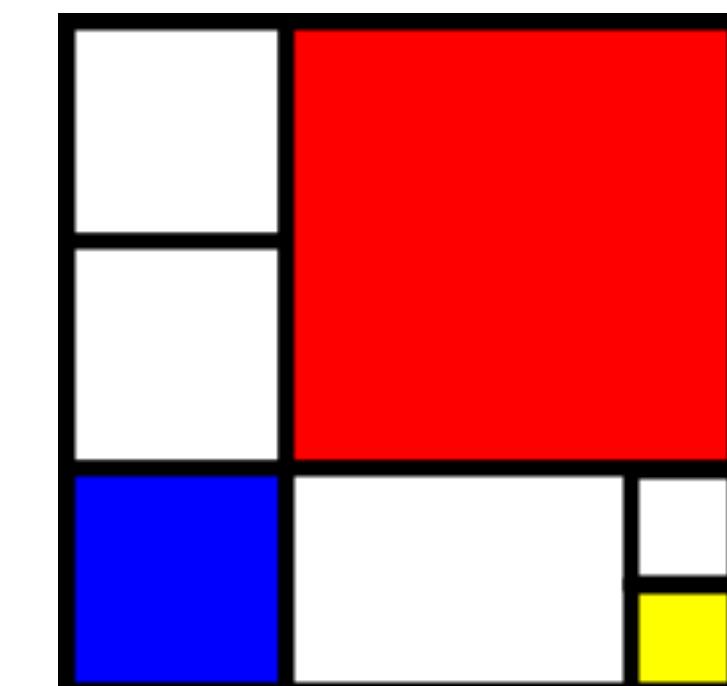
flower



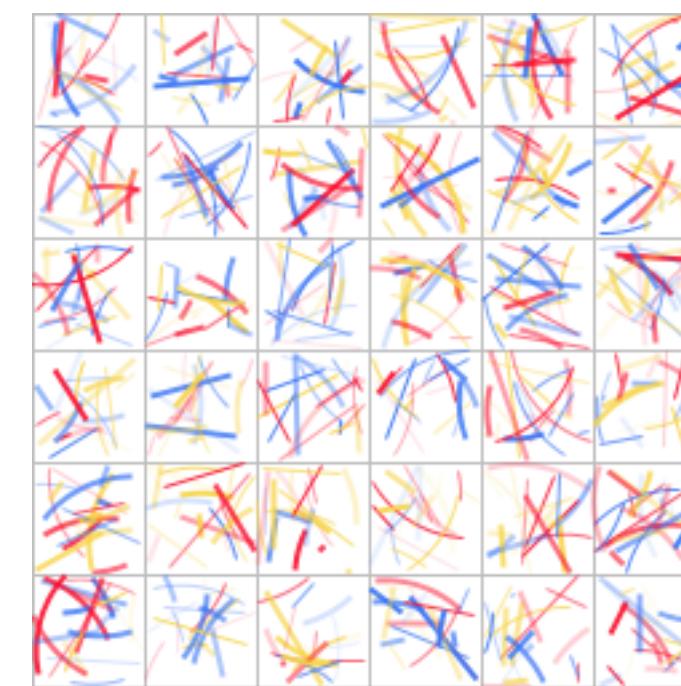
rshape



cube



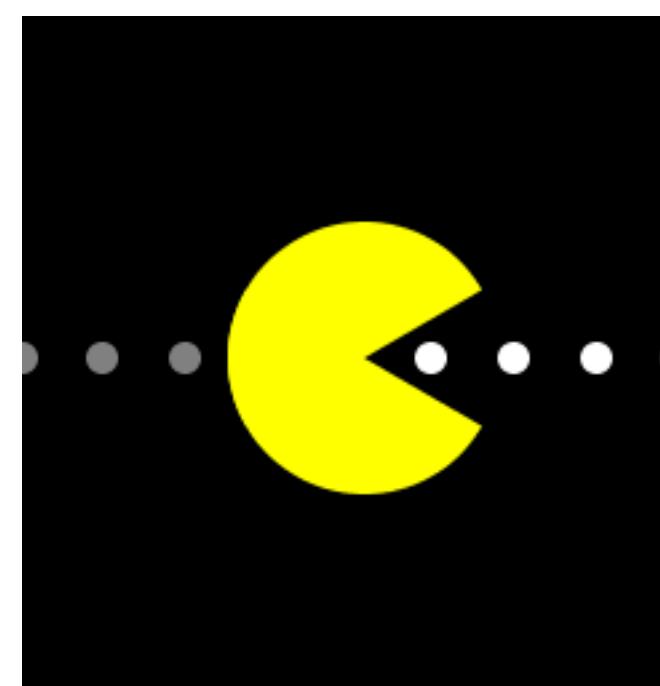
mondrian



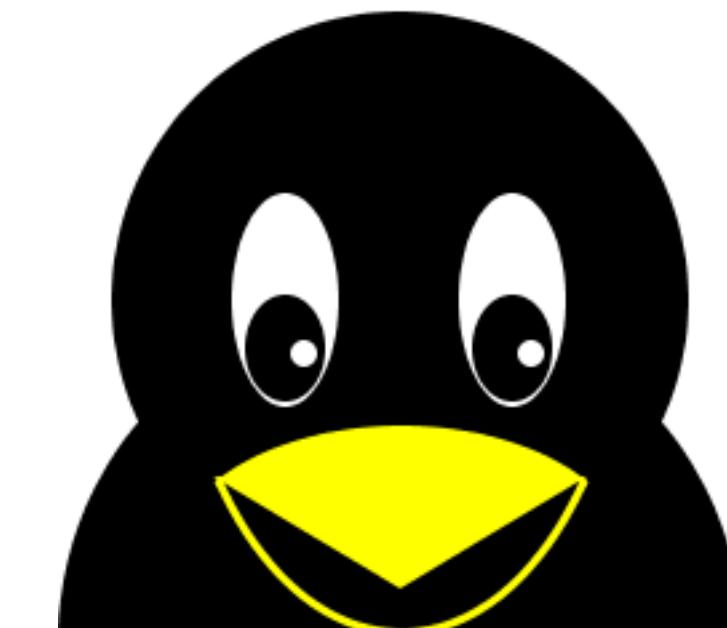
lewitt



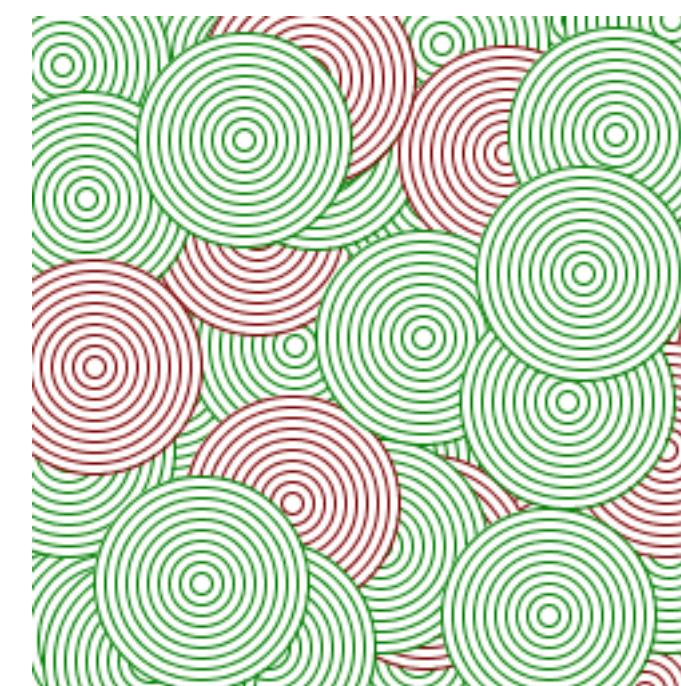
face



pacman

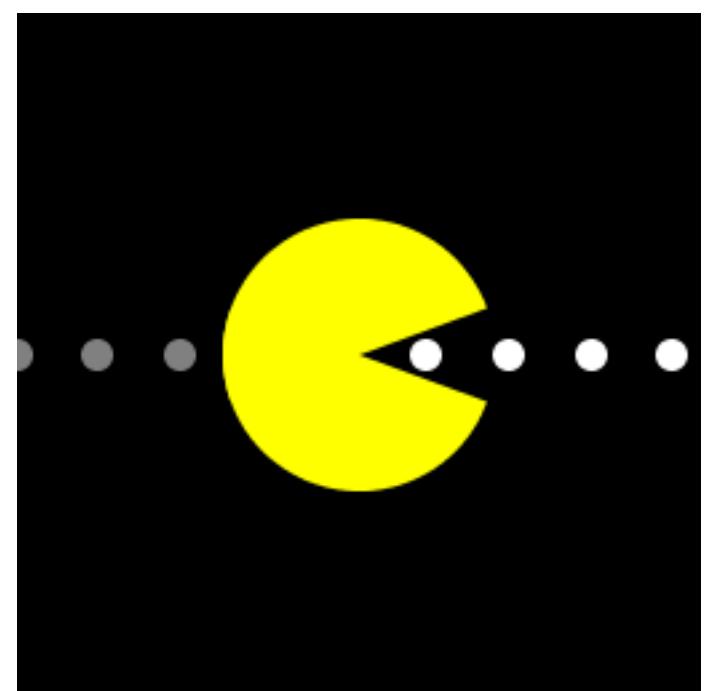


tux

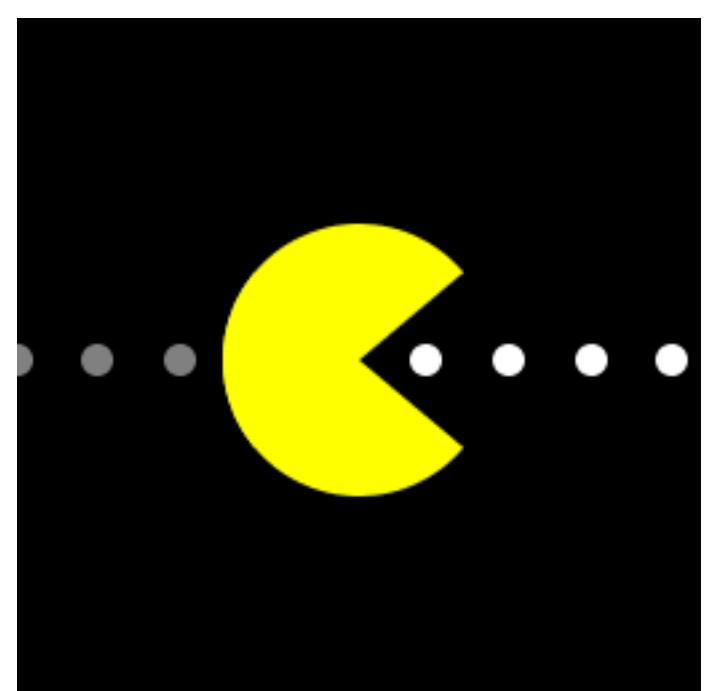


concentric

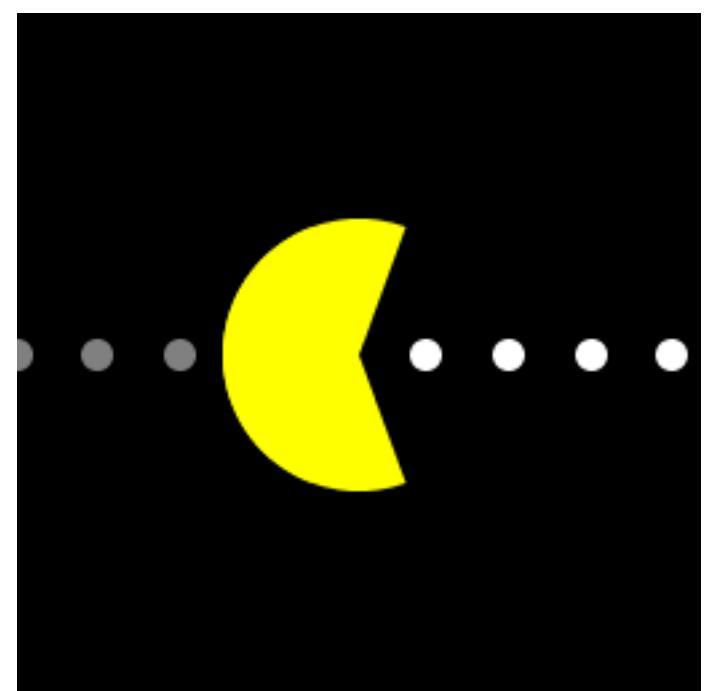
<http://ajstarks.org:1958/pacman/?angle=20>



<http://ajstarks.org:1958/pacman/?angle=40>

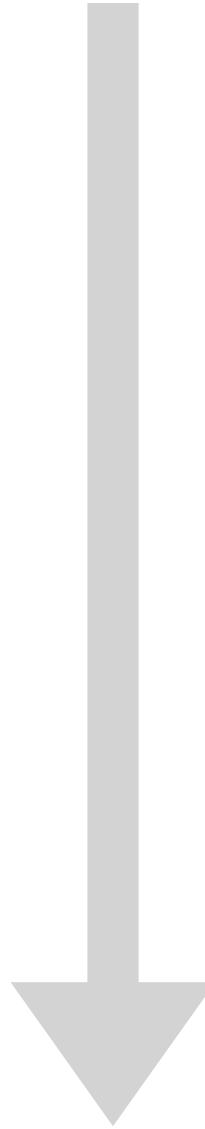


<http://ajstarks.org:1958/pacman/?angle=70>

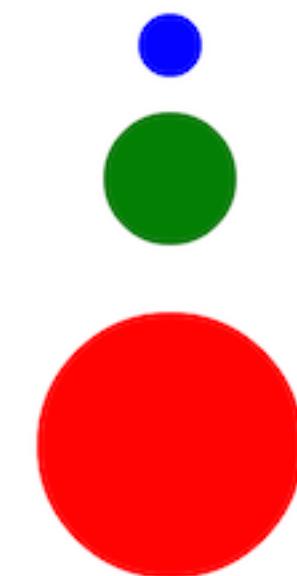


Read/Parse/Draw Pattern

Data



Picture



Little:This is small/blue

Med:This is medium/green

Big:This is large/red

```
<thing top="100" left="100" sep="100">
  <item width="50" height="50" name="Little" color="blue">This is small</item>
  <item width="75" height="100" name="Med"   color="green">This is medium</item>
  <item width="100" height="200" name="Big"   color="red">This is large</item>
</thing>
```

[1] Imports

```
package main
import (
    "encoding/xml"
    "flag"
    "fmt"
    "io"
    "os"
    "github.com/ajstarks/svggo"
)
```

[5] Read the Input

```
func dothing(location string) {
    f, err := os.Open(location)
    if err != nil {
        fmt.Fprintf(os.Stderr, "%v\n", err)
        return
    }
    defer f.Close()
    readthing(f)
}
```

[2] Data Structures

```
type Thing struct {
    Top int `xml:"top,attr"`
    Left int `xml:"left,attr"`
    Sep int `xml:"sep,attr"`
    Item []item `xml:"item"`
}

type item struct {
    Width int `xml:"width,attr"`
    Height int `xml:"height,attr"`
    Name string `xml:"name,attr"`
    Color string `xml:"color,attr"`
    Text string `xml:",chardata"`
}
```

[6] Parse and Load

```
func readthing(r io.Reader) {
    var t Thing
    err := xml.NewDecoder(r).Decode(&t)
    if err != nil {
        fmt.Fprintf(os.Stderr, "%v\n", err)
        return
    }
    drawthing(t)
}
```

[3] Globals and Flags

```
var (
    width = flag.Int("w", 1024, "width")
    height = flag.Int("h", 768, "height")
    canvas = svg.New(os.Stdout)
)
```

[4] Main

```
func main() {
    flag.Parse()
    for _, f := range flag.Args() {
        canvas.Start(*width, *height)
        dothing(f)
        canvas.End()
    }
}
```

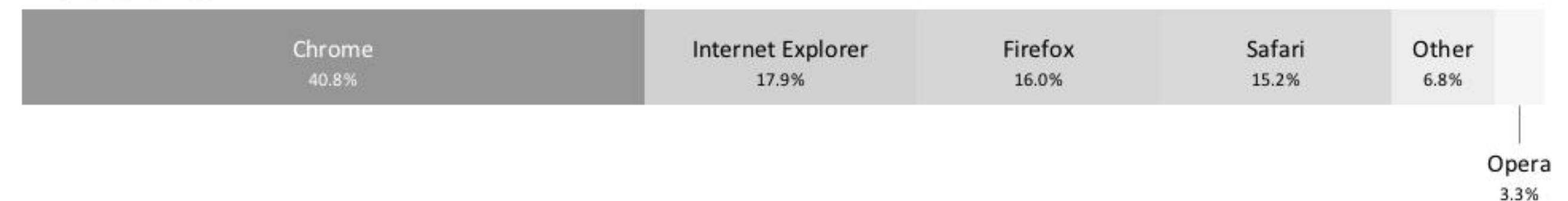
[7] Draw

```
func drawthing(t Thing) {
    x := t.Left
    y := t.Top
    thingfmt := "font-size:%dpx;fill:%s"
    tfmt := "%s:%s/%s"
    for _, v := range t.Item {
        s := fmt.Sprintf(thingfmt,
                         v.Width/2, v.Color)
        canvas.Circle(x, y, v.Height/4,
                      "fill:"+v.Color)
        canvas.Text(x+t.Sep, y,
                    fmt.Sprintf(tfmt,
                               v.Name, v.Text, v.Color, s))
        y += v.Height
    }
}
```

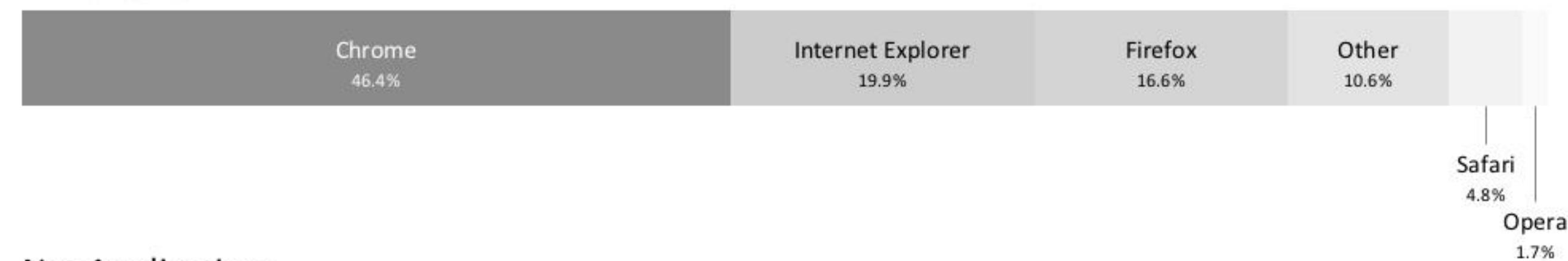
StatCounter



W3C Counter



Wikimedia



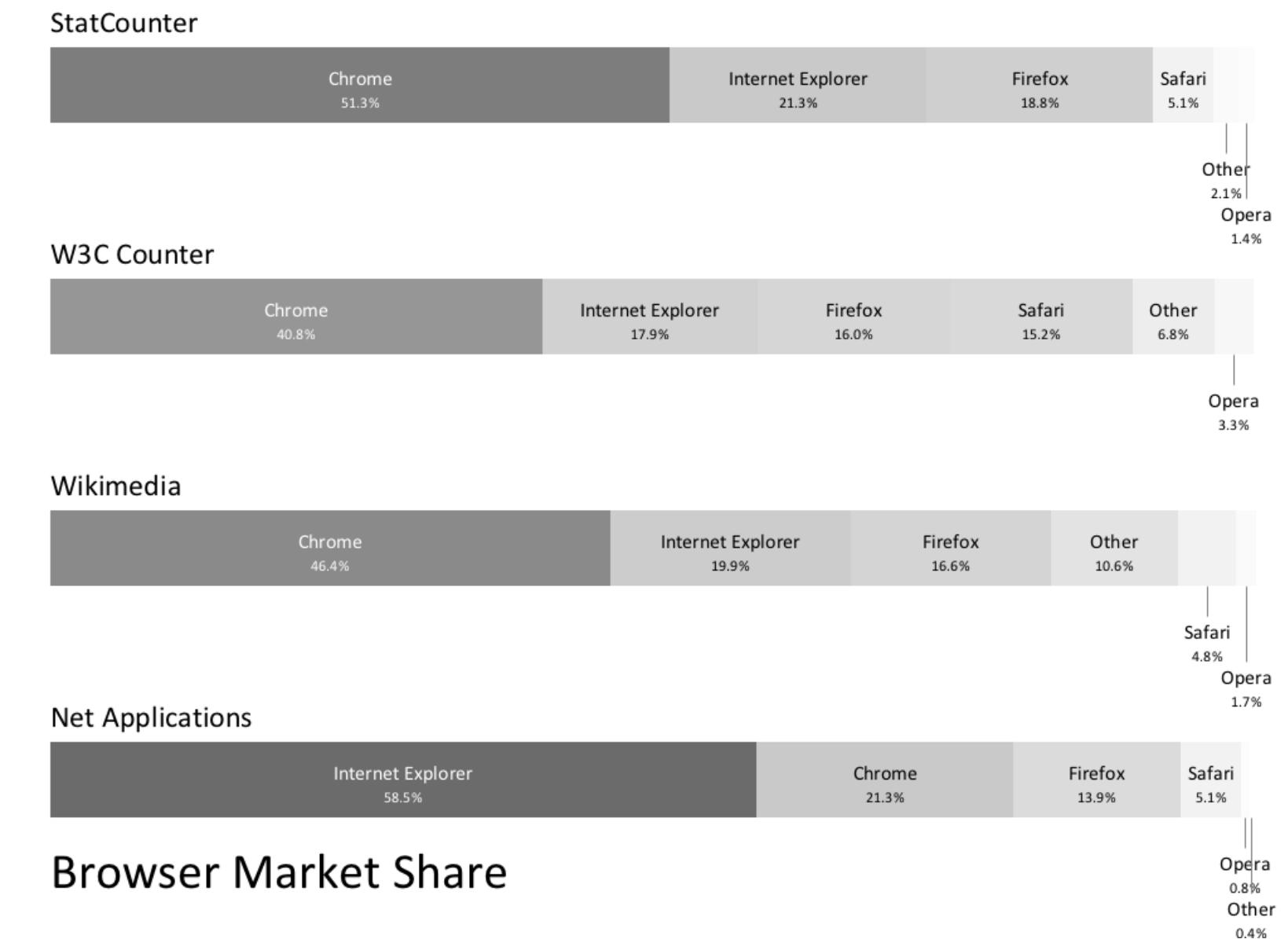
Net Applications



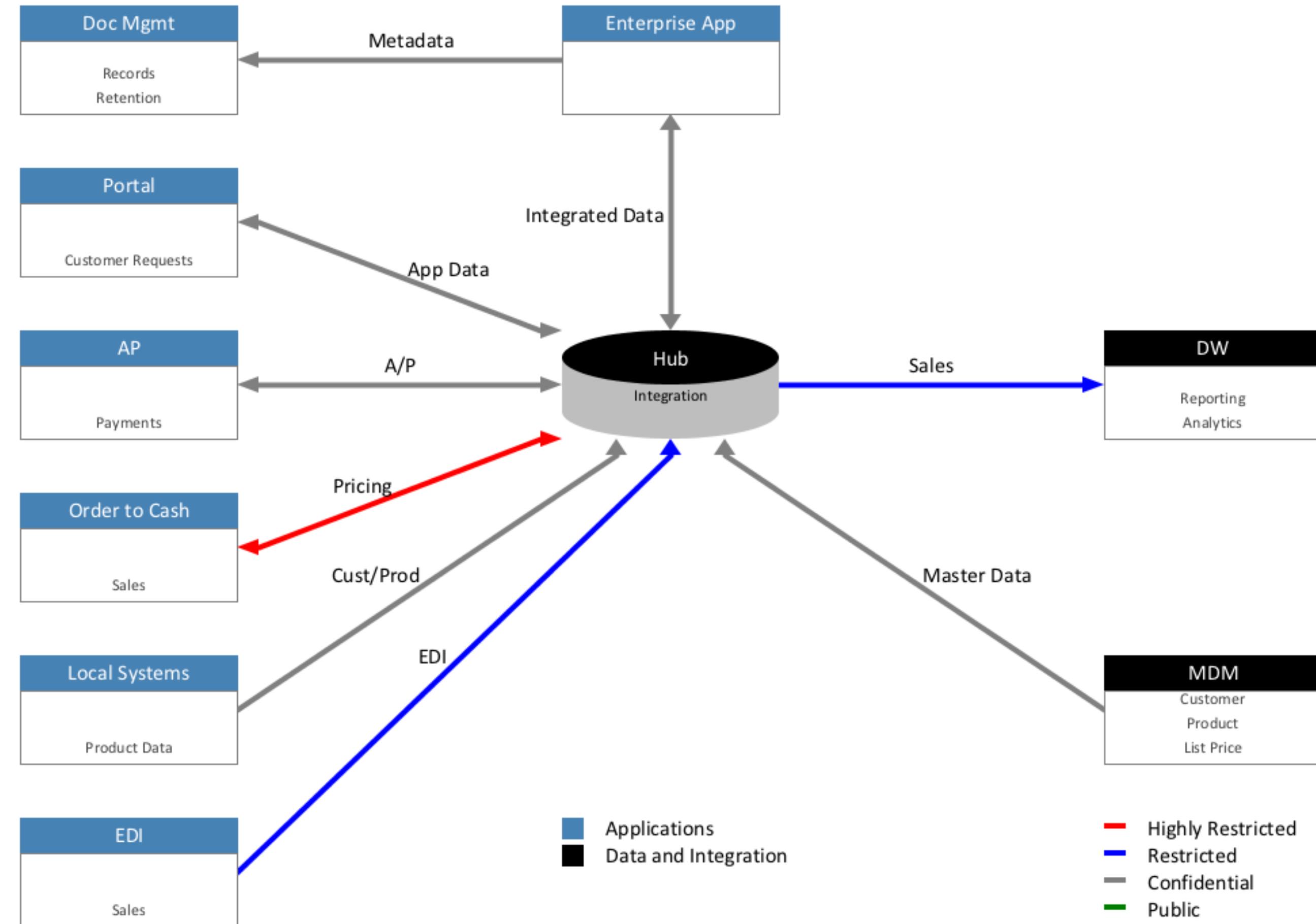
Browser Market Share

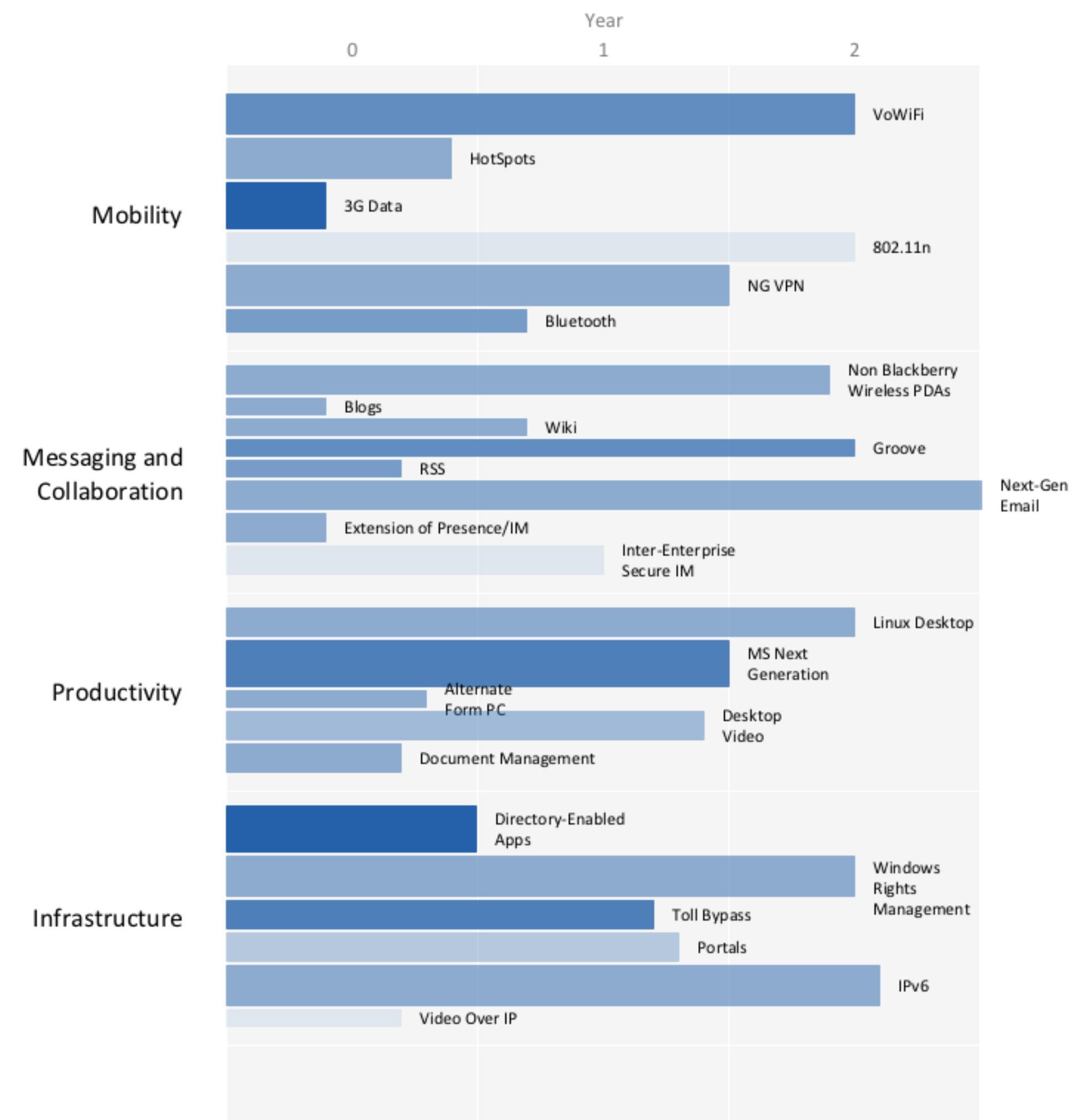
```
pmap -stagger -showtitle -p -t "Browser Market Share" bs.xml
```

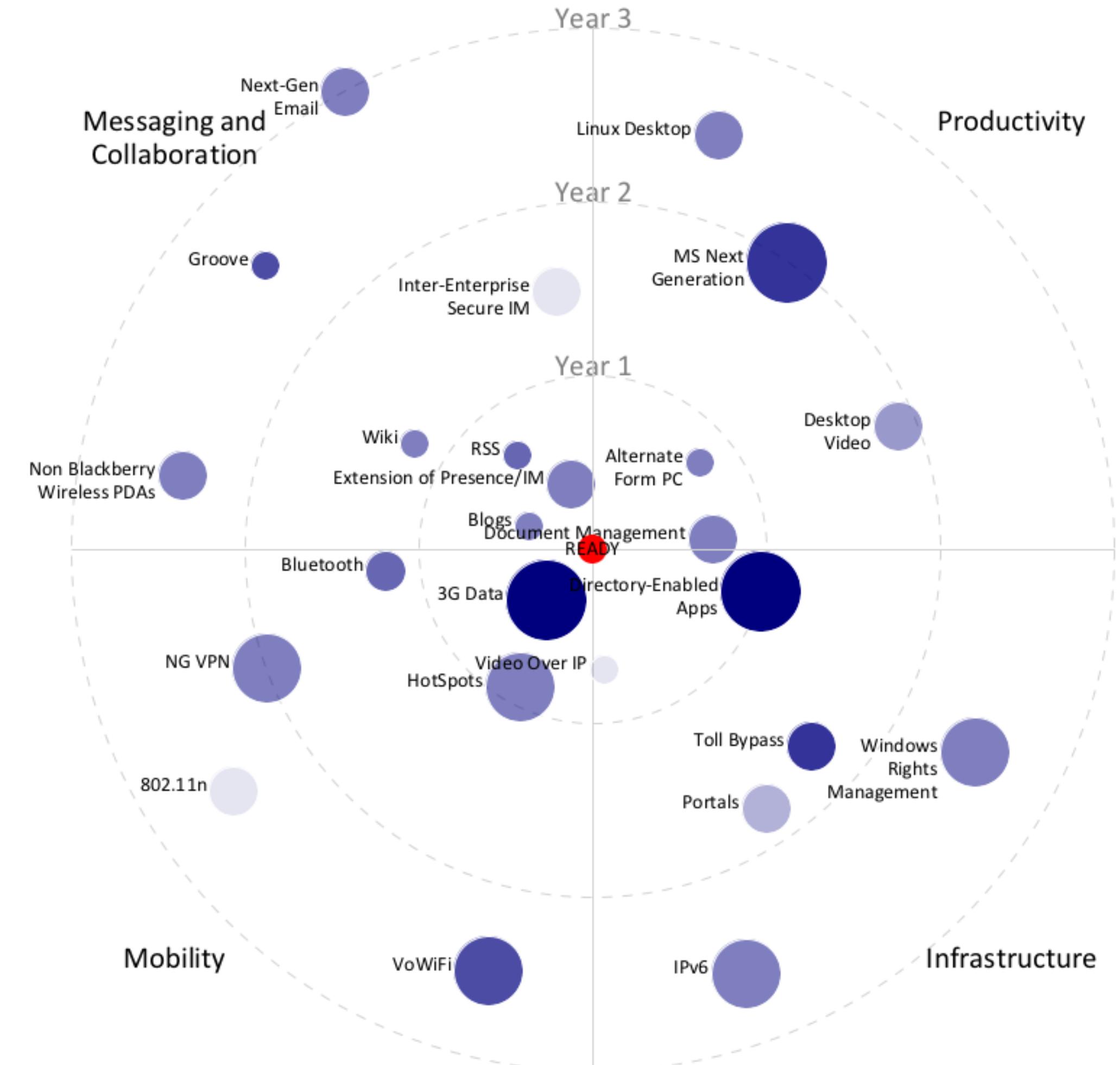
```
<pmap>
  <pdata legend="StatCounter">
    <item value="51.3">Chrome</item>
    <item value="21.3">Internet Explorer</item>
    <item value="18.8">Firefox</item>
    <item value="5.1">Safari</item>
    <item value="2.1">Other</item>
    <item value="1.4">Opera</item>
  </pdata>
  ...
</pmap>
```



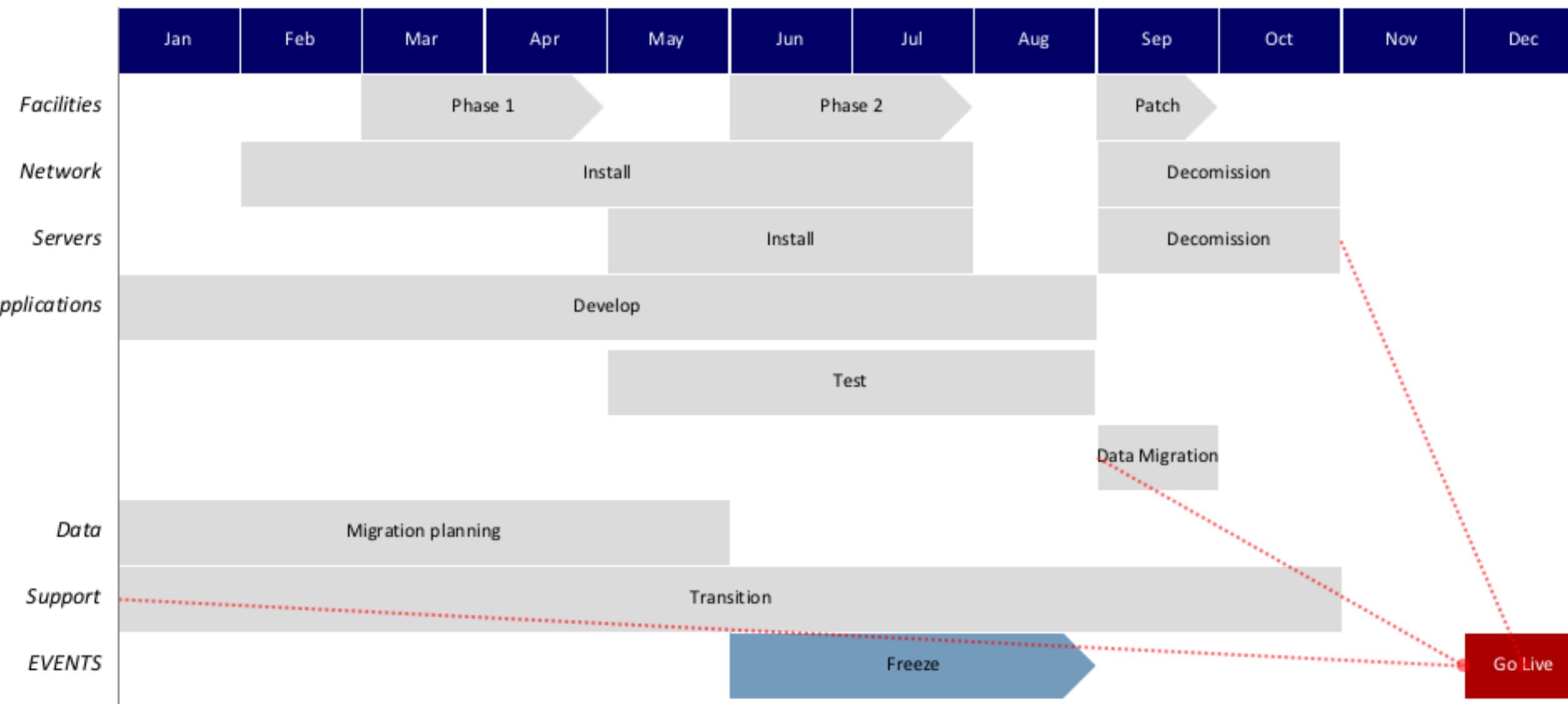
SVGo Clients





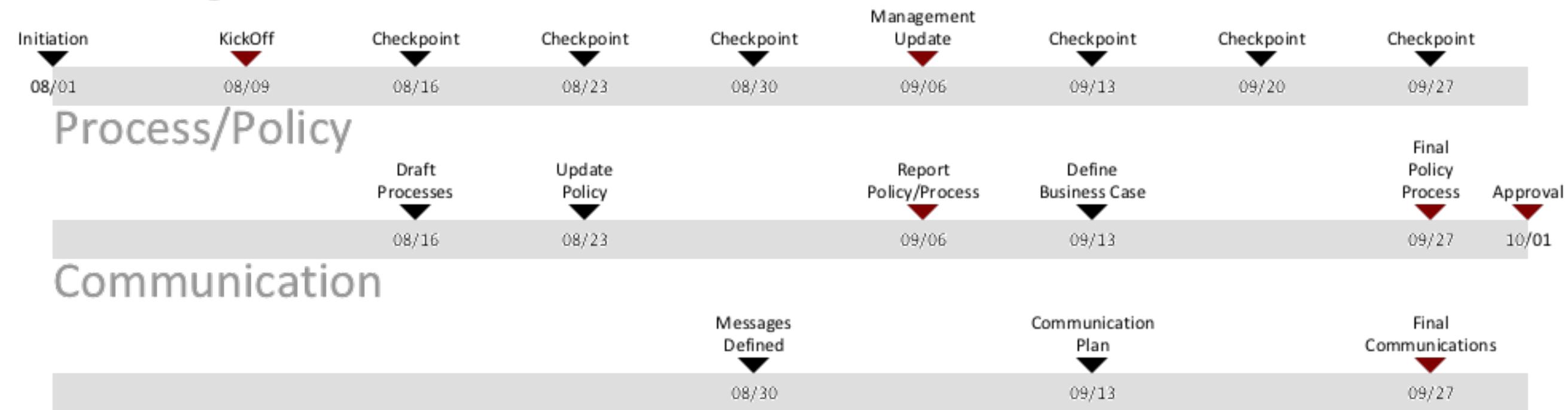


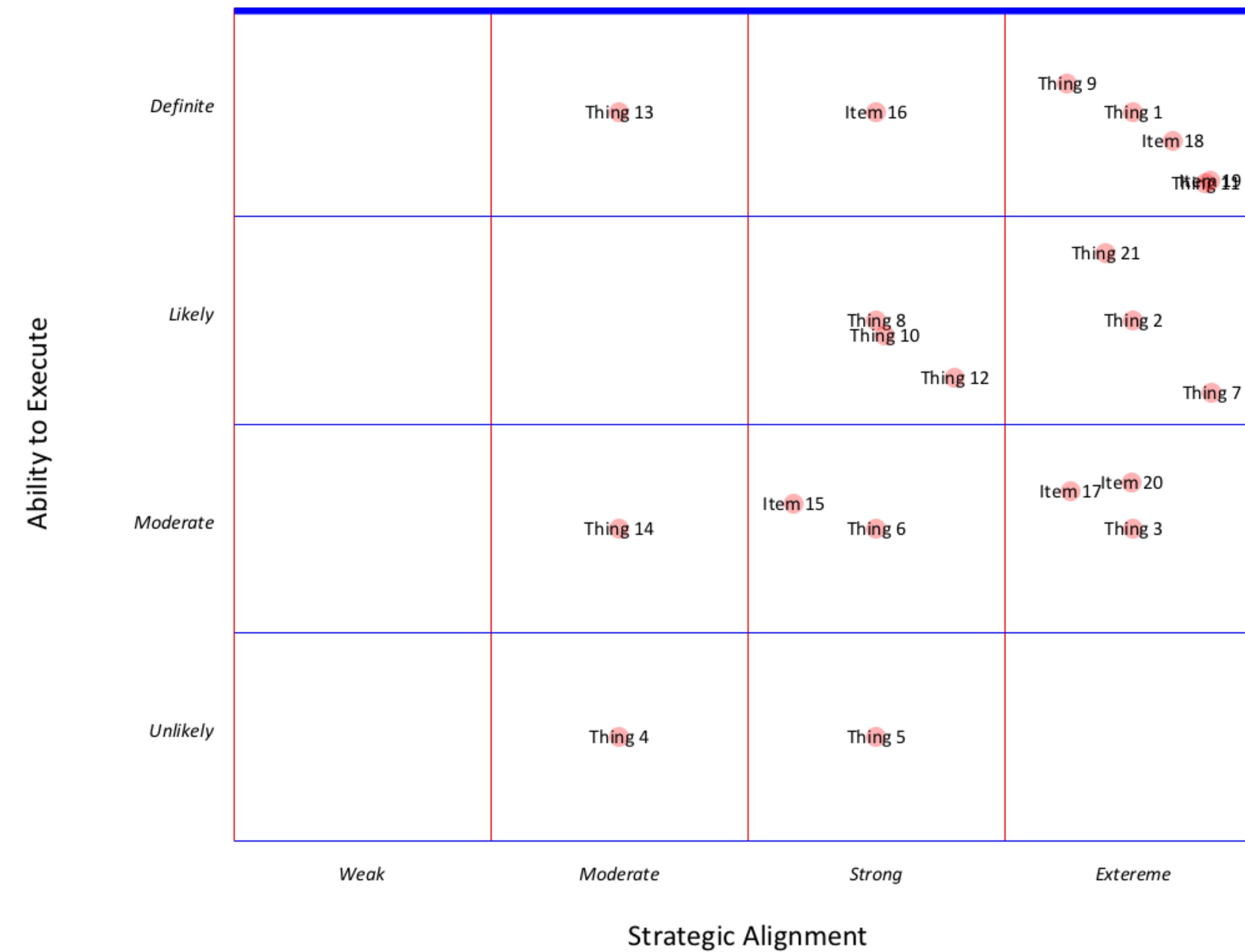
PLANNING TO PLAN

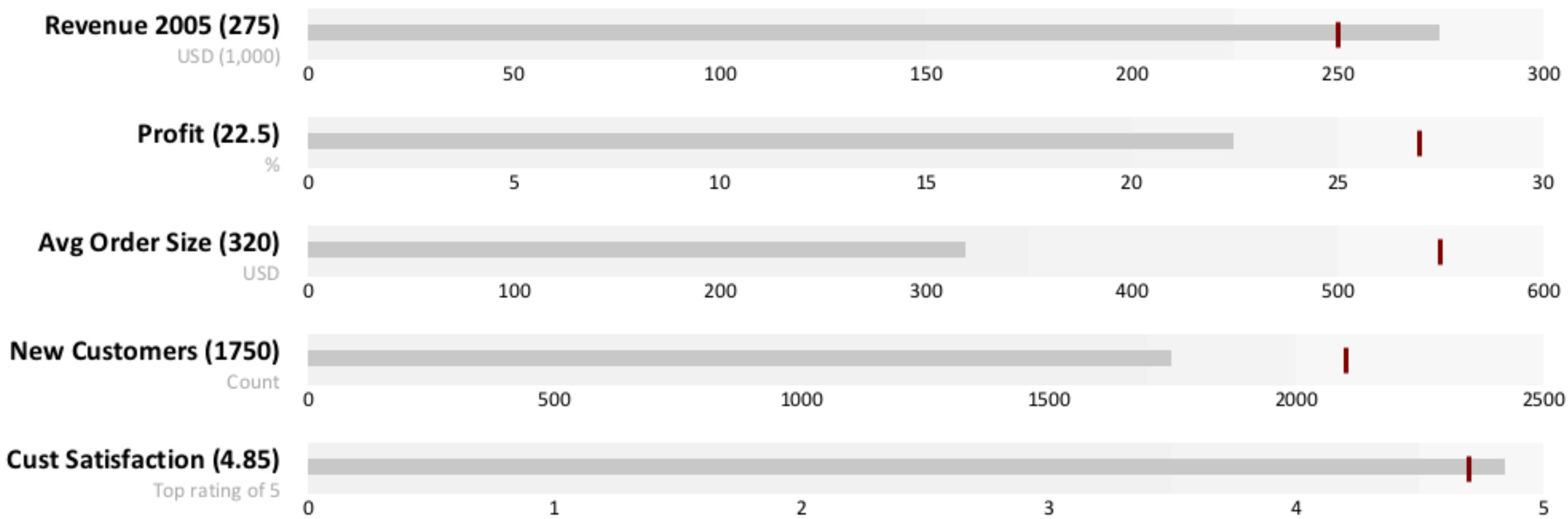


Project Timeline

Meetings





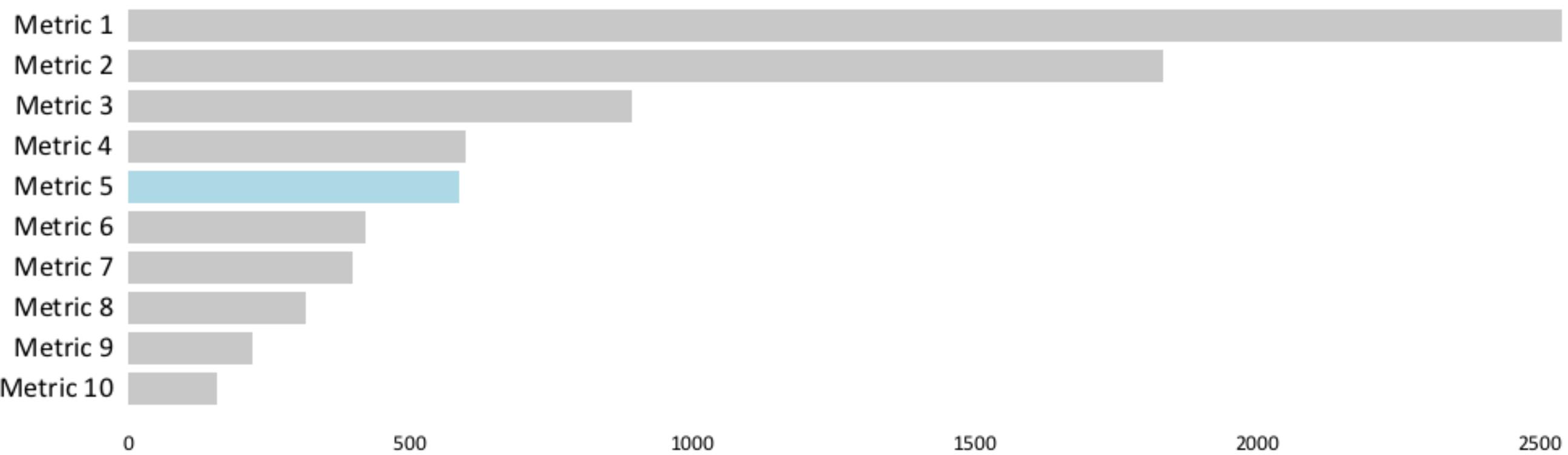


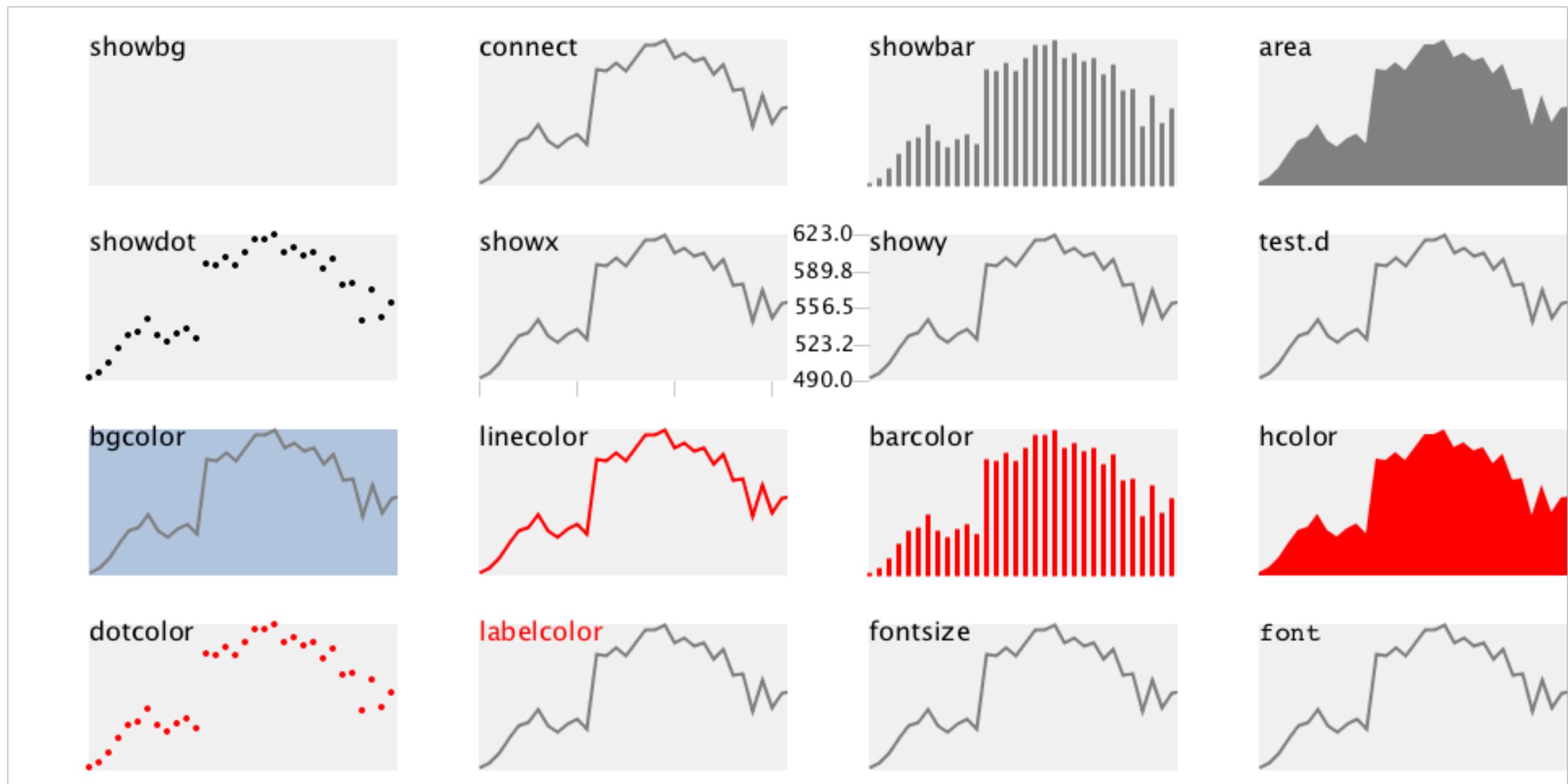
Sample Bullet Graph

The bullet graph features a single, primary measure (for example, current year-to-date revenue) compares that measure to one or more other measures to enrich its meaning, for example, compared to a target), and displays it in the context of qualitative ranges of performance, such as poor, satisfactory, and good.

The qualitative ranges are displayed as varying intensities of a single hue to make them discernible by those who are color blind and to restrict the use of colors on the dashboard to a minimum.

IS Metrics Usage (Feb-Sep 2011)

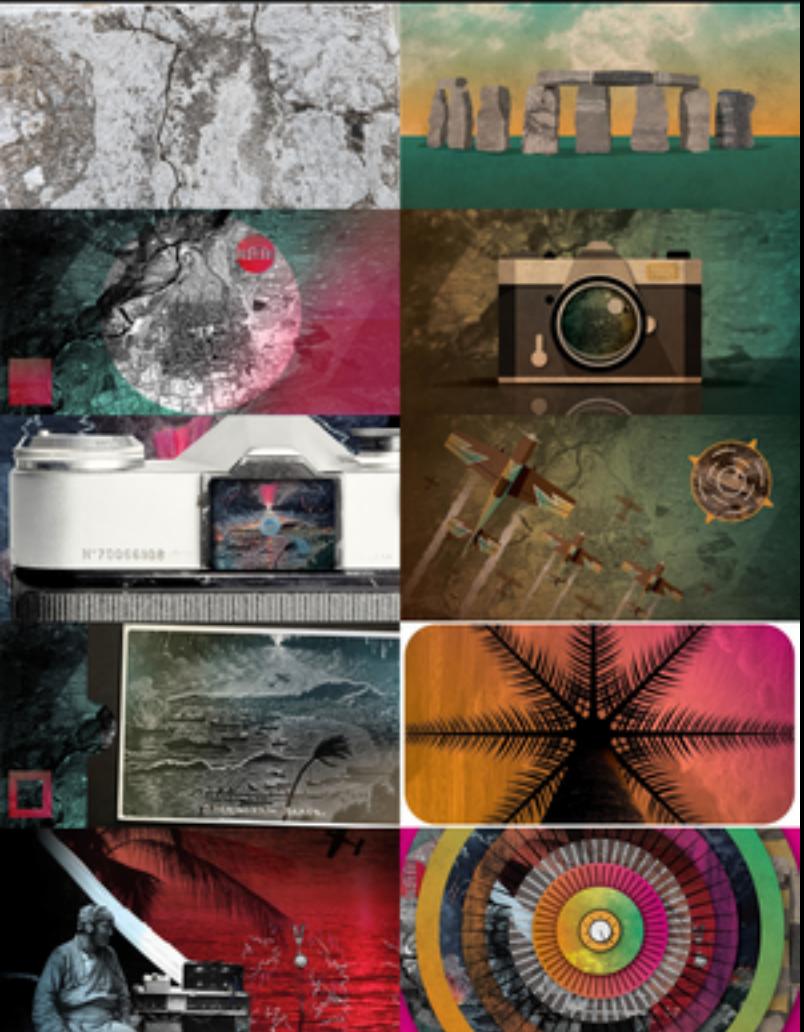




JONES MONTIEL



ANDERSON DKNG



DKNG DDL



CONTINO
CASSARO



PUTNAM
STOCKS



WHITE
TAYLOR



HALL
WARREN



STRAWBERRY LUNA
DOUBLENAUT



JONES
MONTIEL



DKNG
DDL



SHAWNA X
STEVENS



TAYLOR
JONES



PUTNAM
RAJKUMAR



REYES
WHITE



ANDERSON
DKNG



TAYLOR
WHITE



RAJKUMAR
ANDERSON

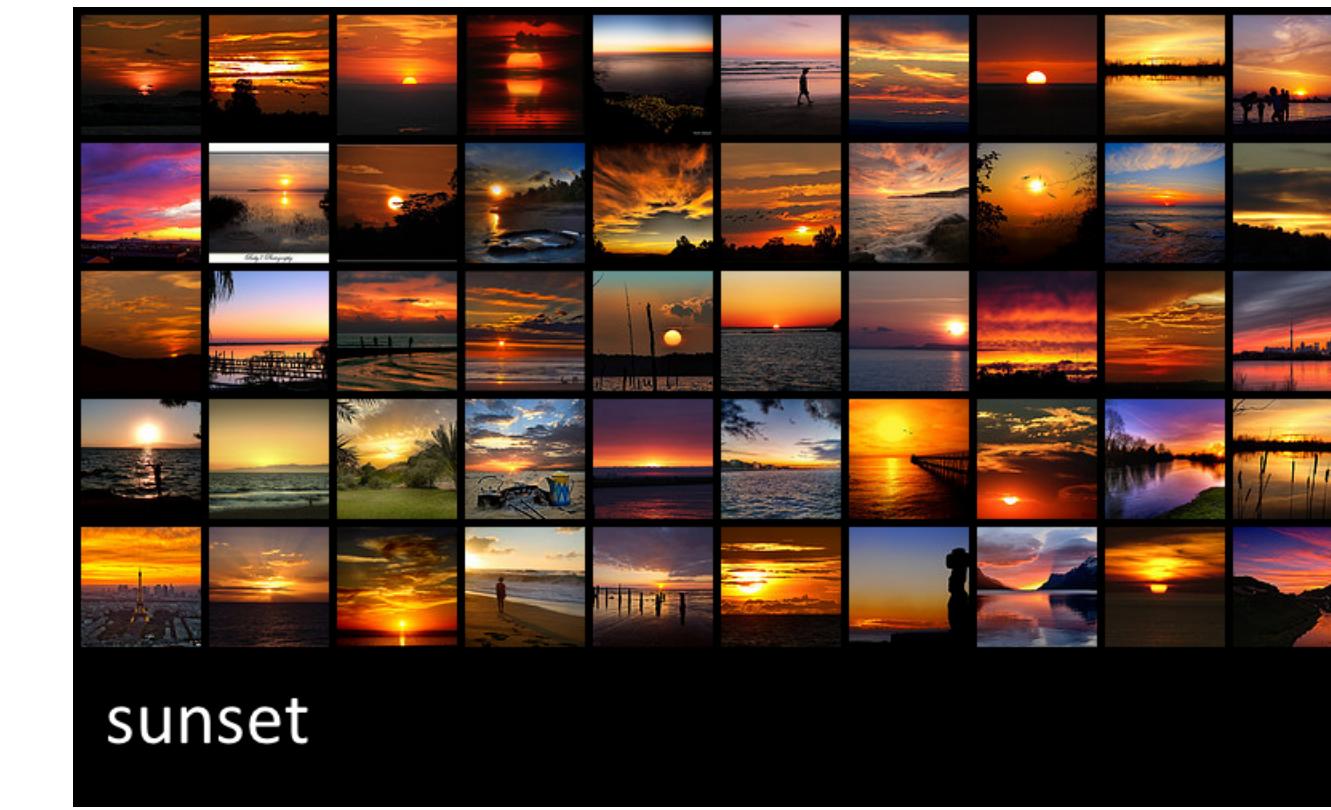


ANDERSON
WHITE



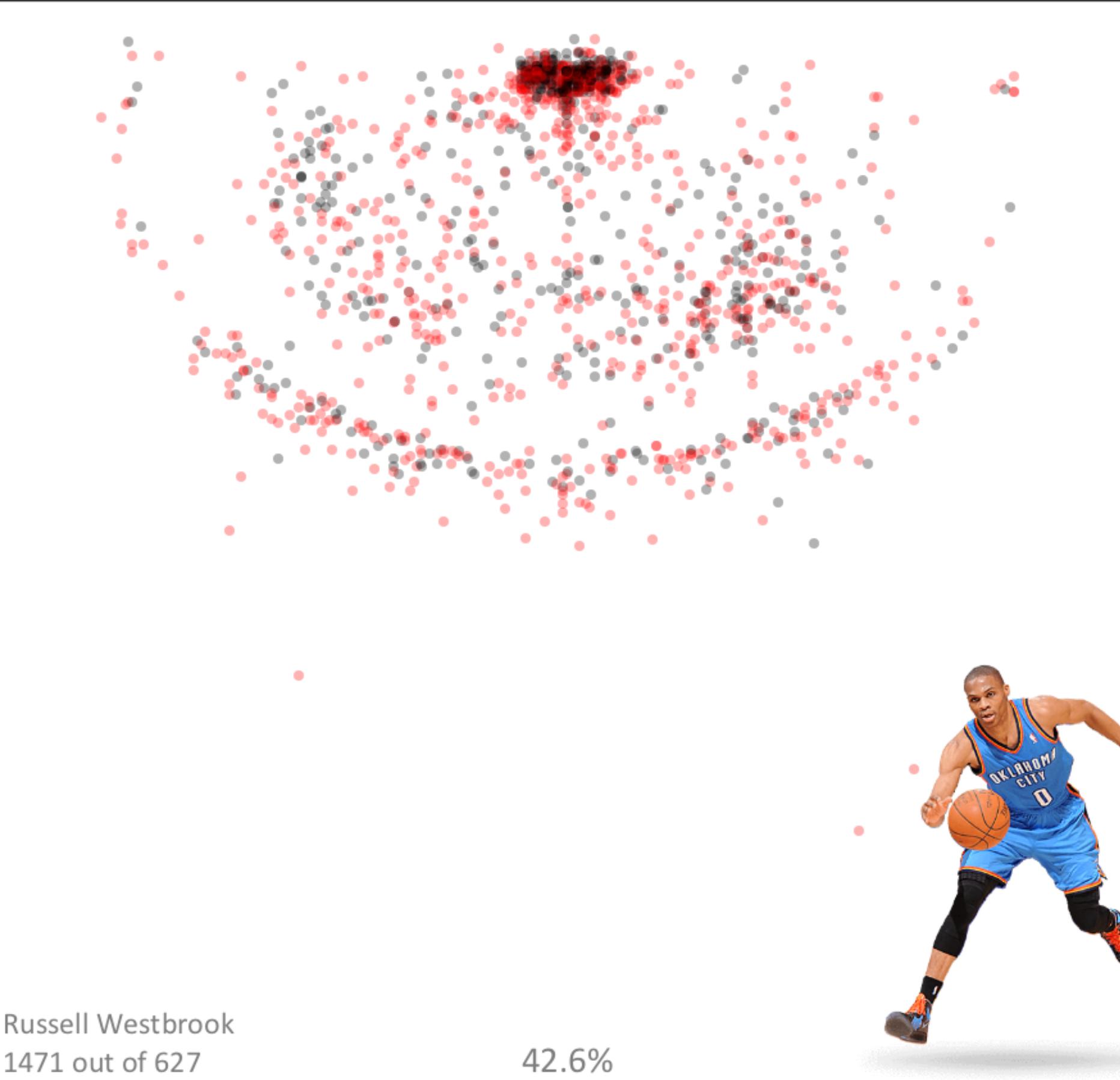
f50 sunset

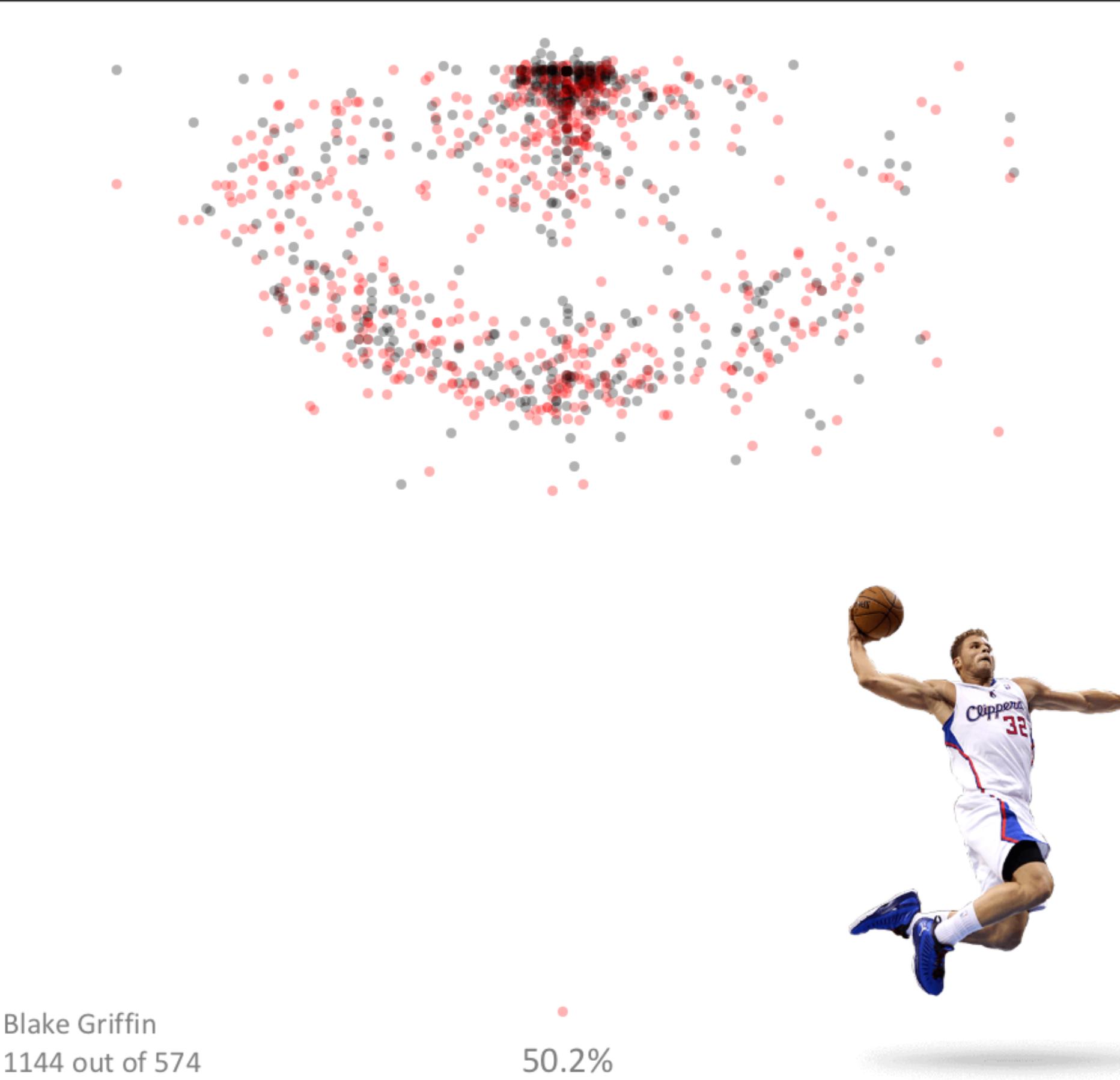
```
https://api.flickr.com/services/rest/  
    ?method=flickr.photos.search  
    &api_key=...  
    &text=sunset  
    &per_page=50  
    &sort=interestingness-desc
```

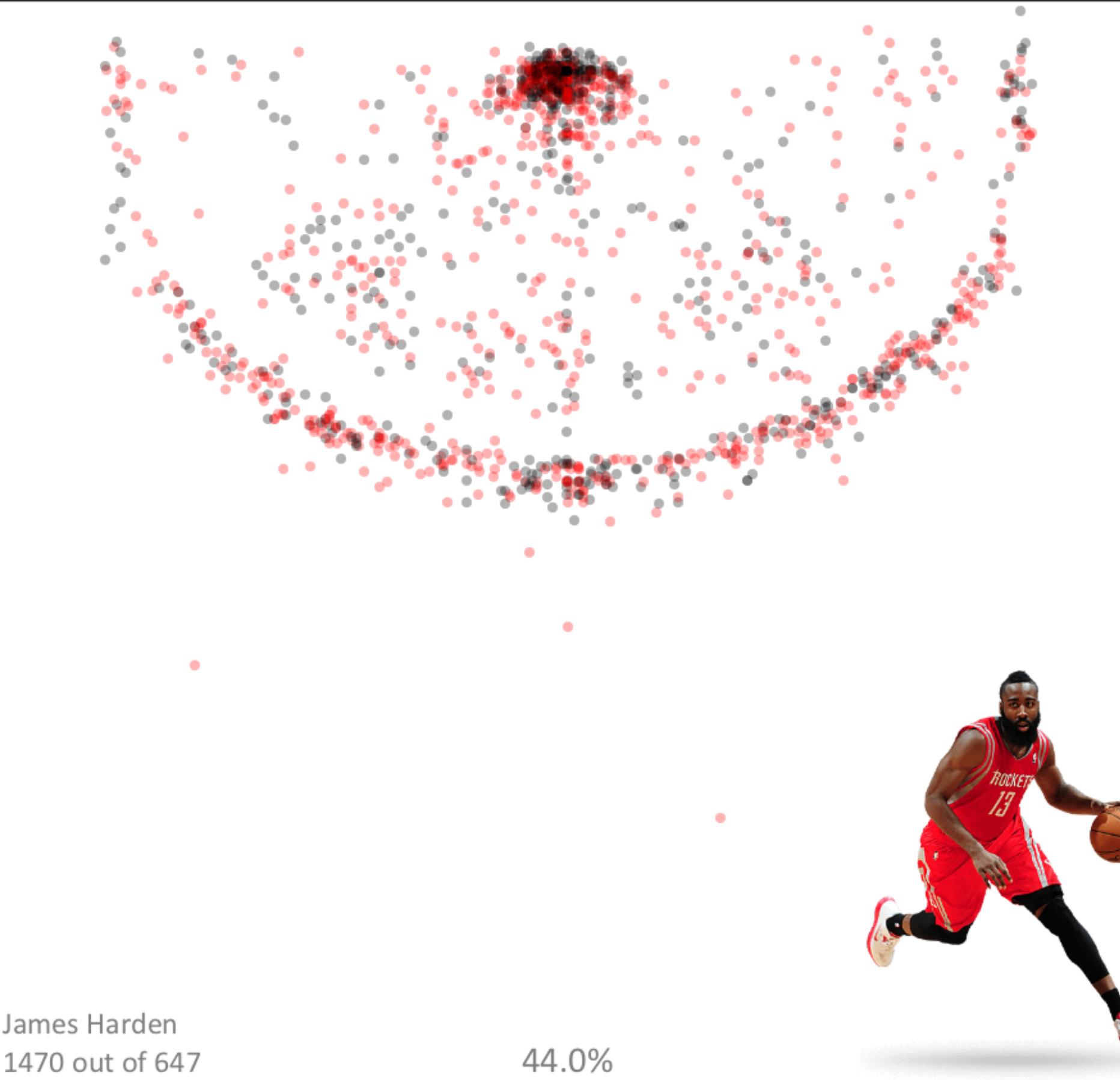


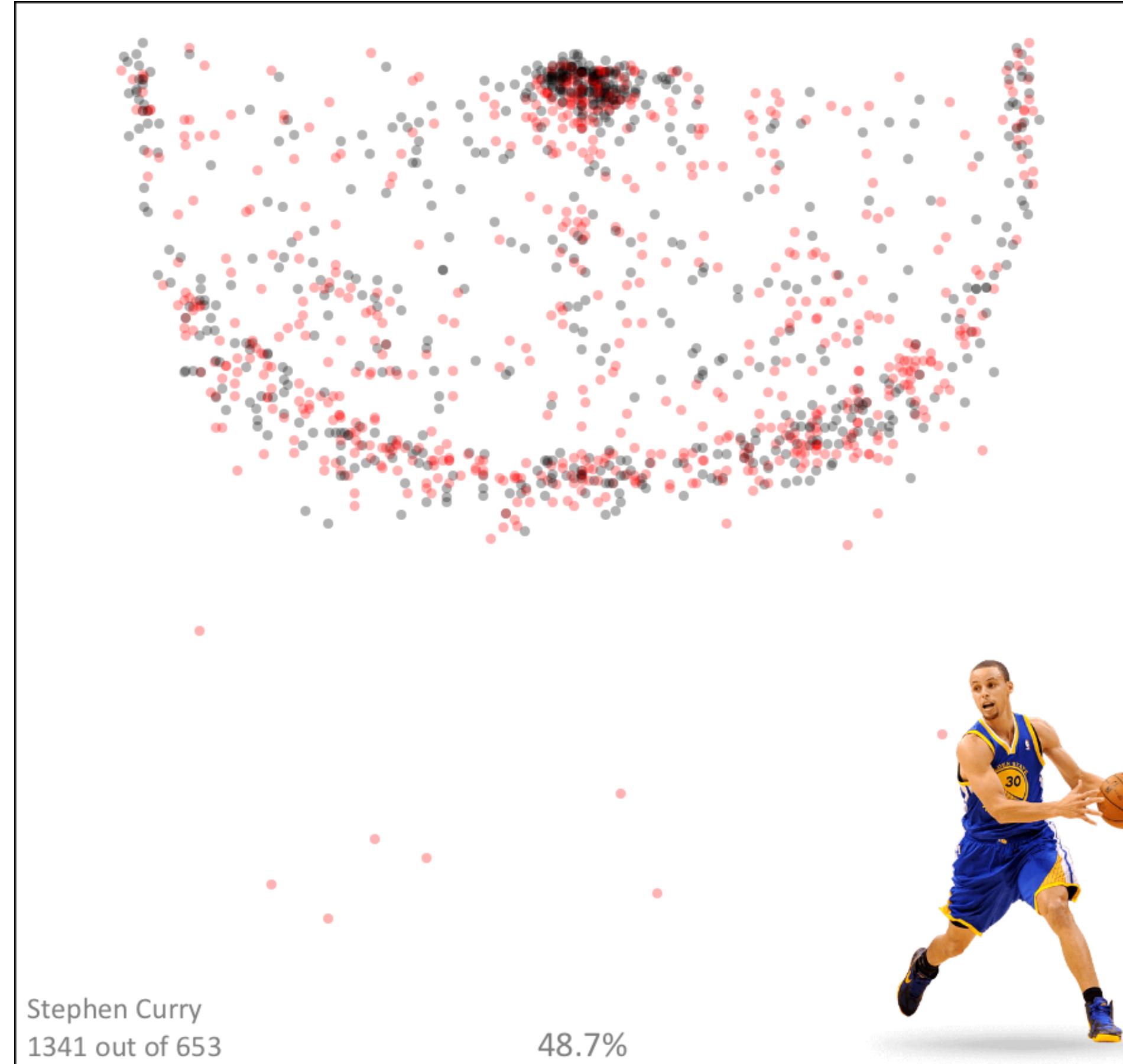
```
<?xml version="1.0" encoding="utf-8" ?>  
<rsp stat="ok">  
  <photos page="1" pages="105615" perpage="50" total="5280747">  
    <photo id="4671838925" ... secret="b070f3363e" server="4068" farm="5" ... />  
    <photo id="3590142202" ... secret="c46752e4d8" server="2441" farm="3" ... />  
    ...  
  </photos>  
</rsp>
```

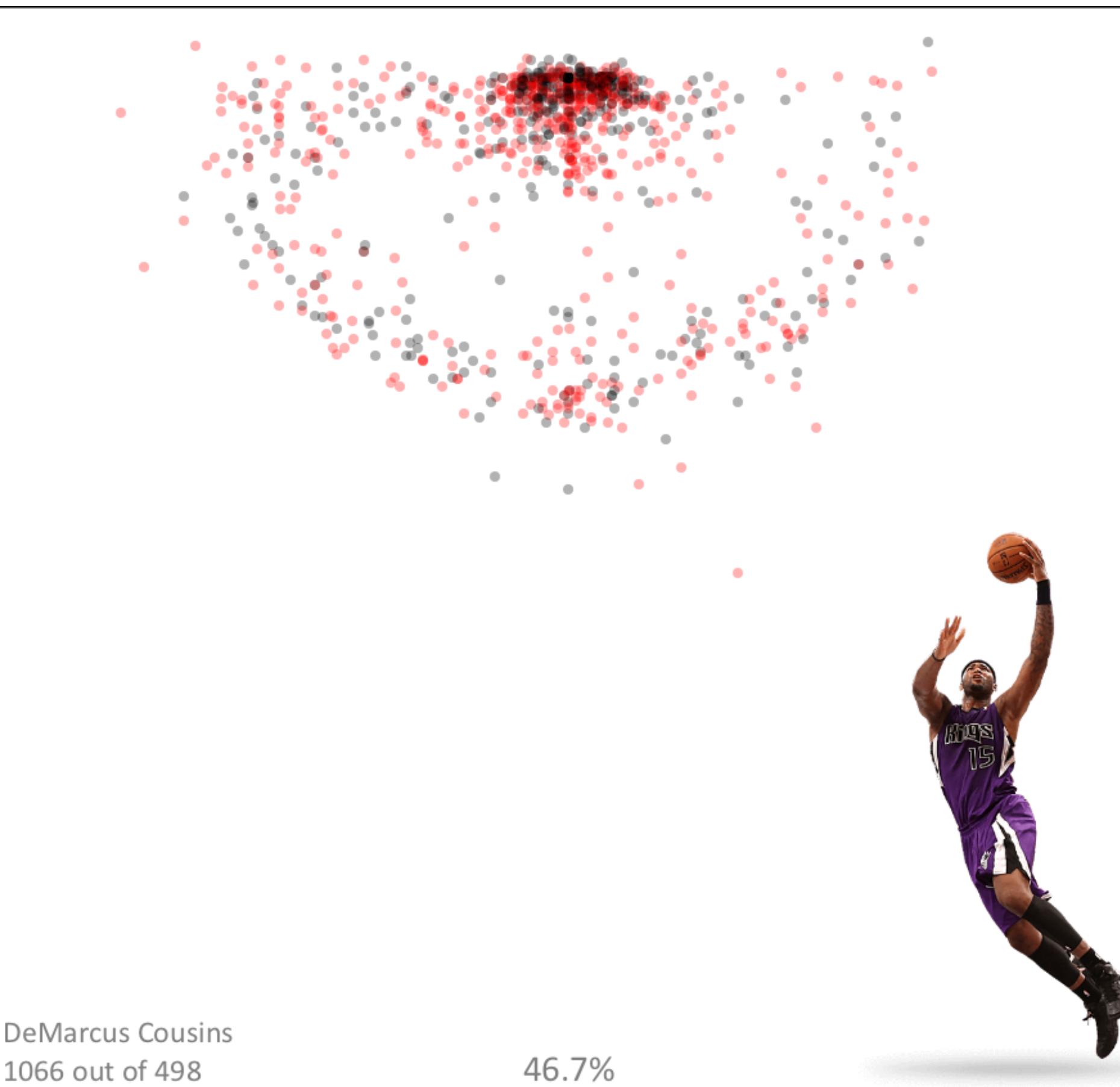
```
for i in $(cat top-ten)
do
    shotchart -net $i > $i.svg
done
```

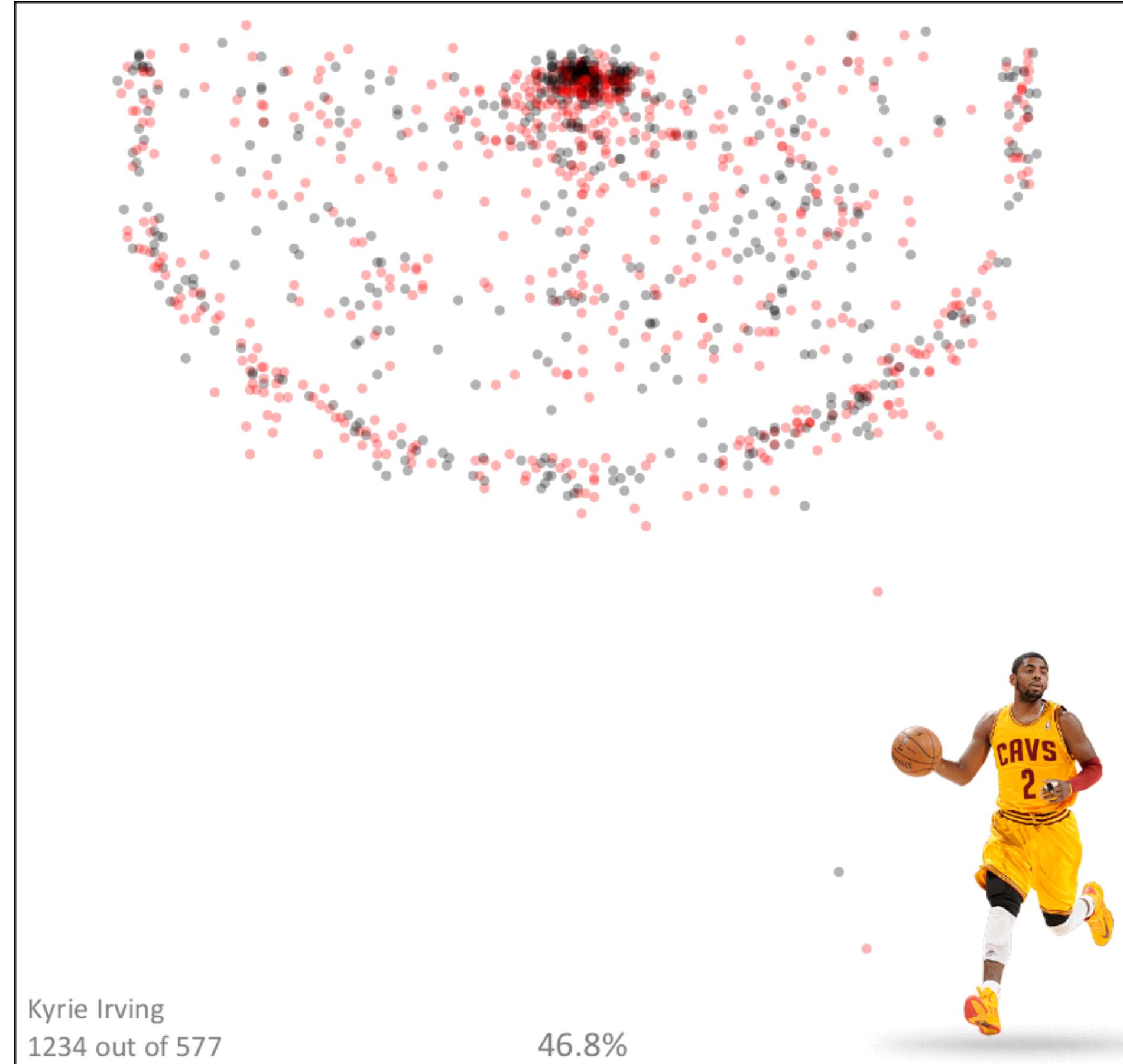


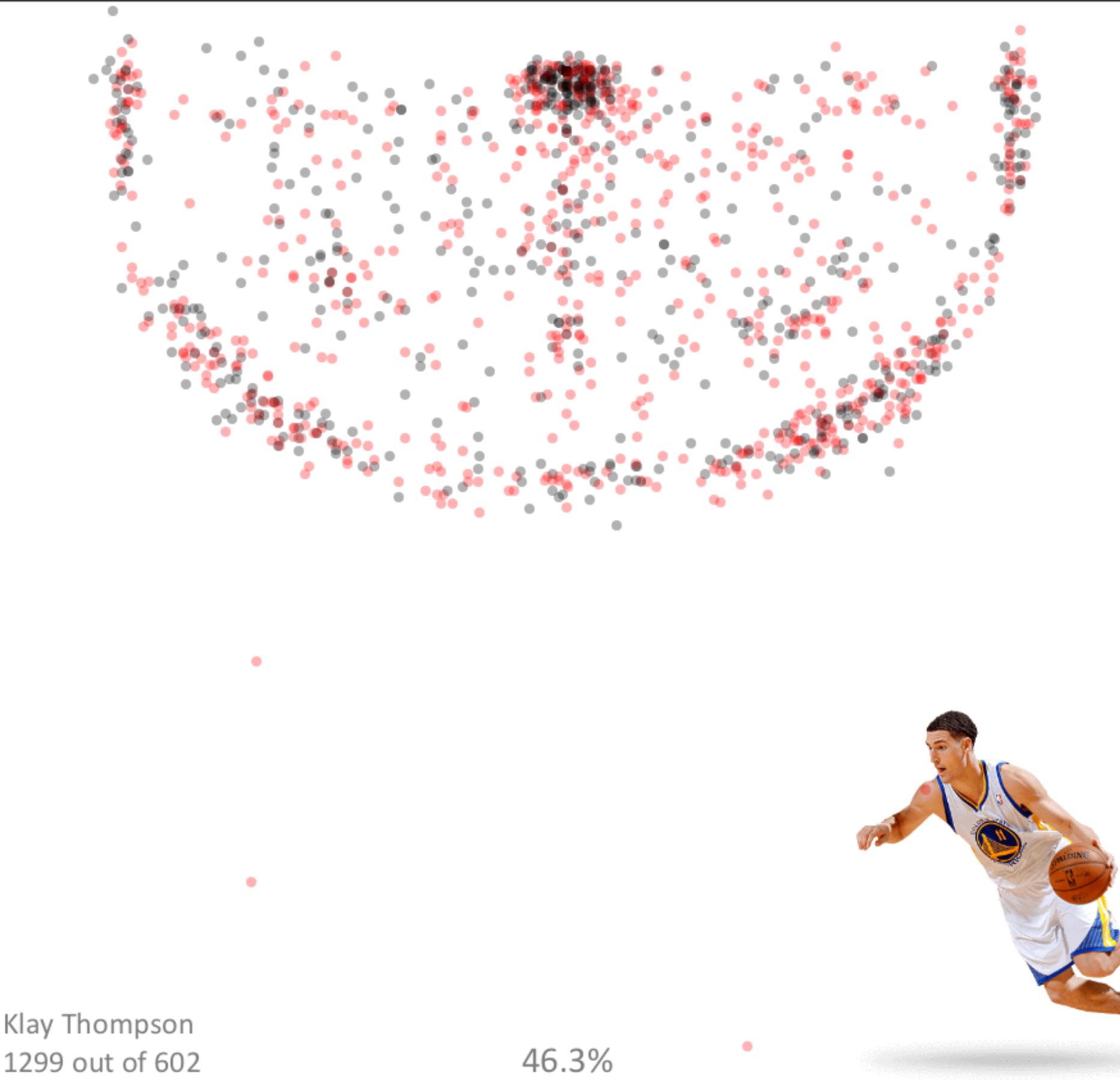


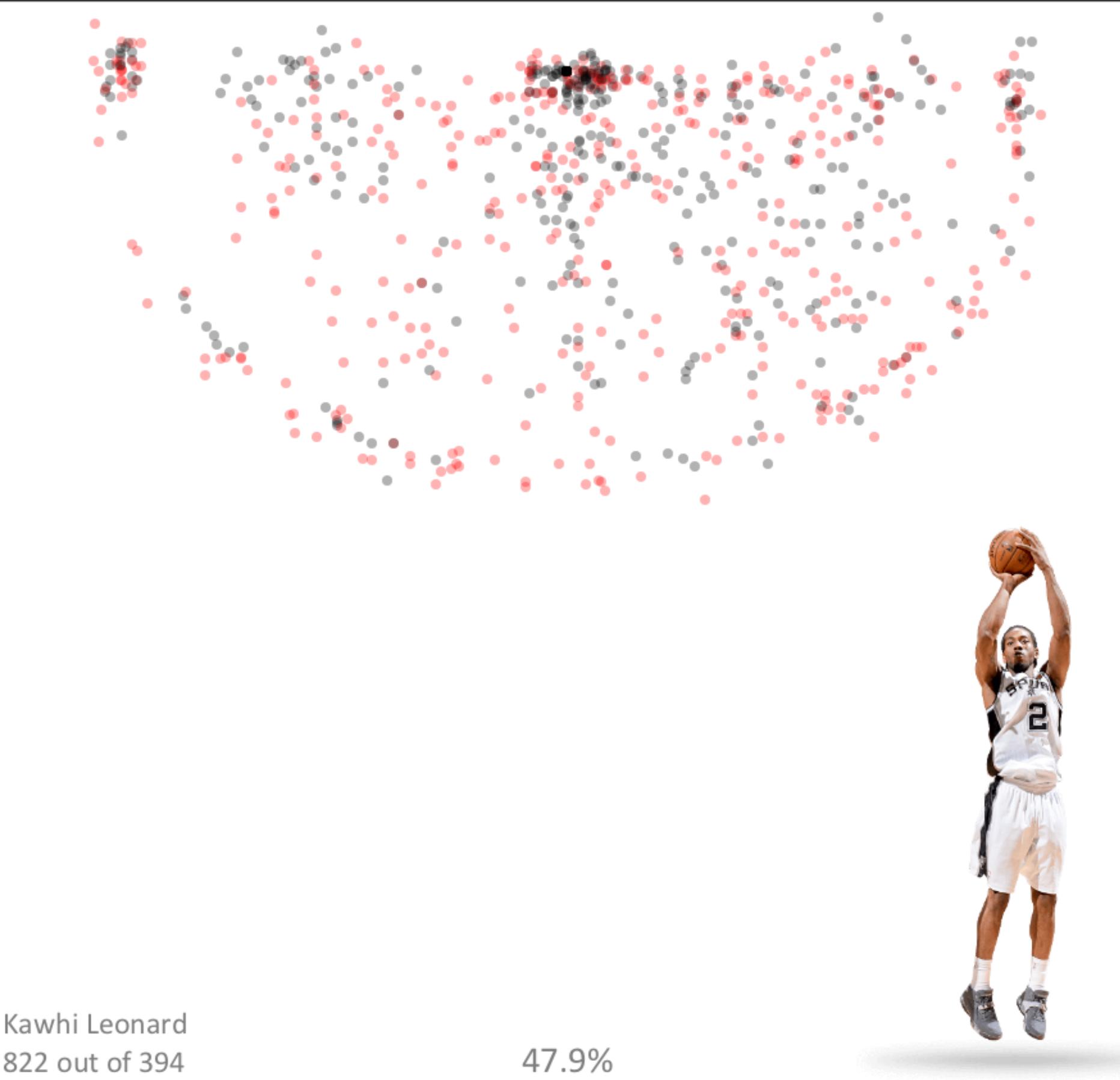


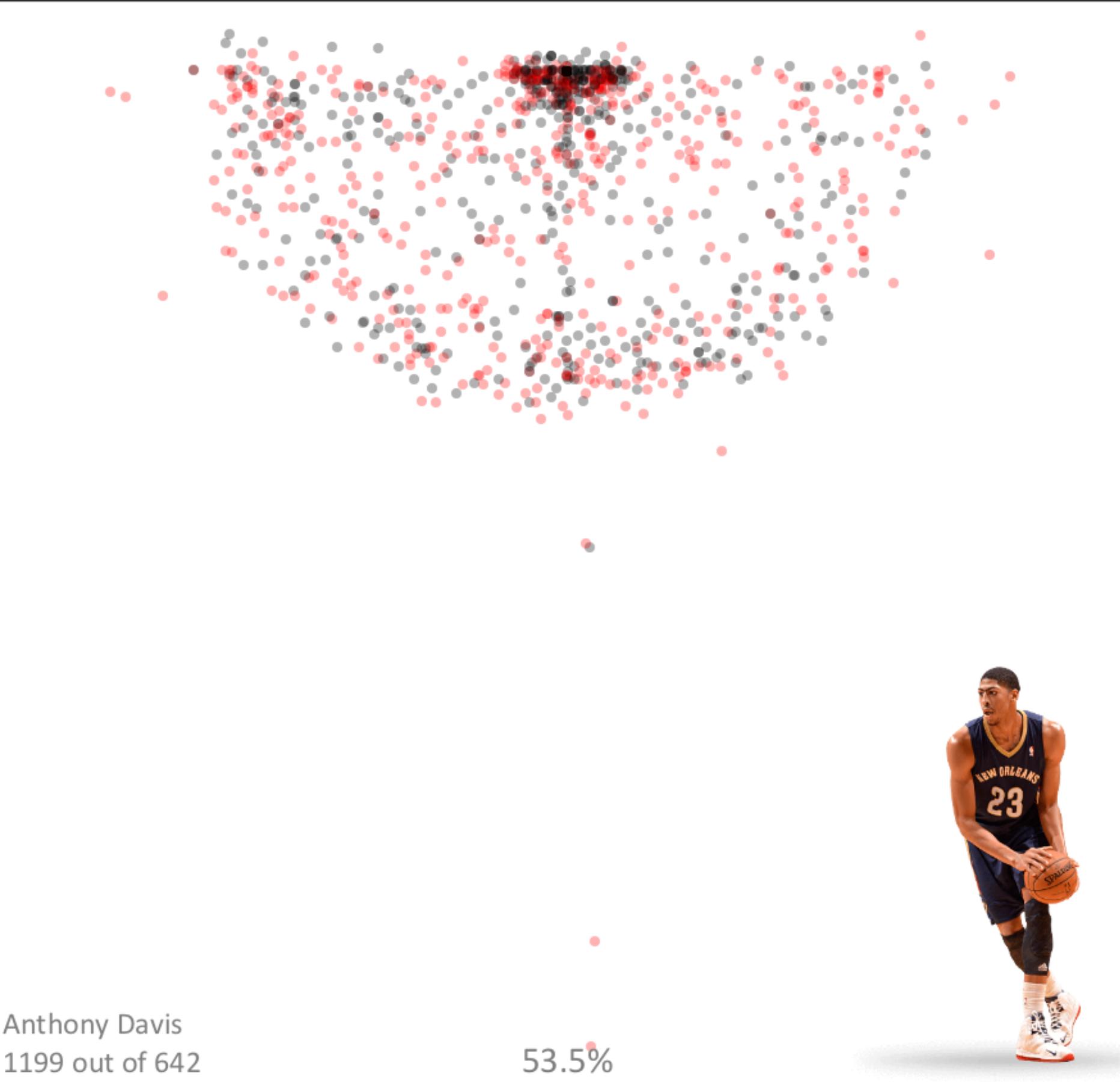


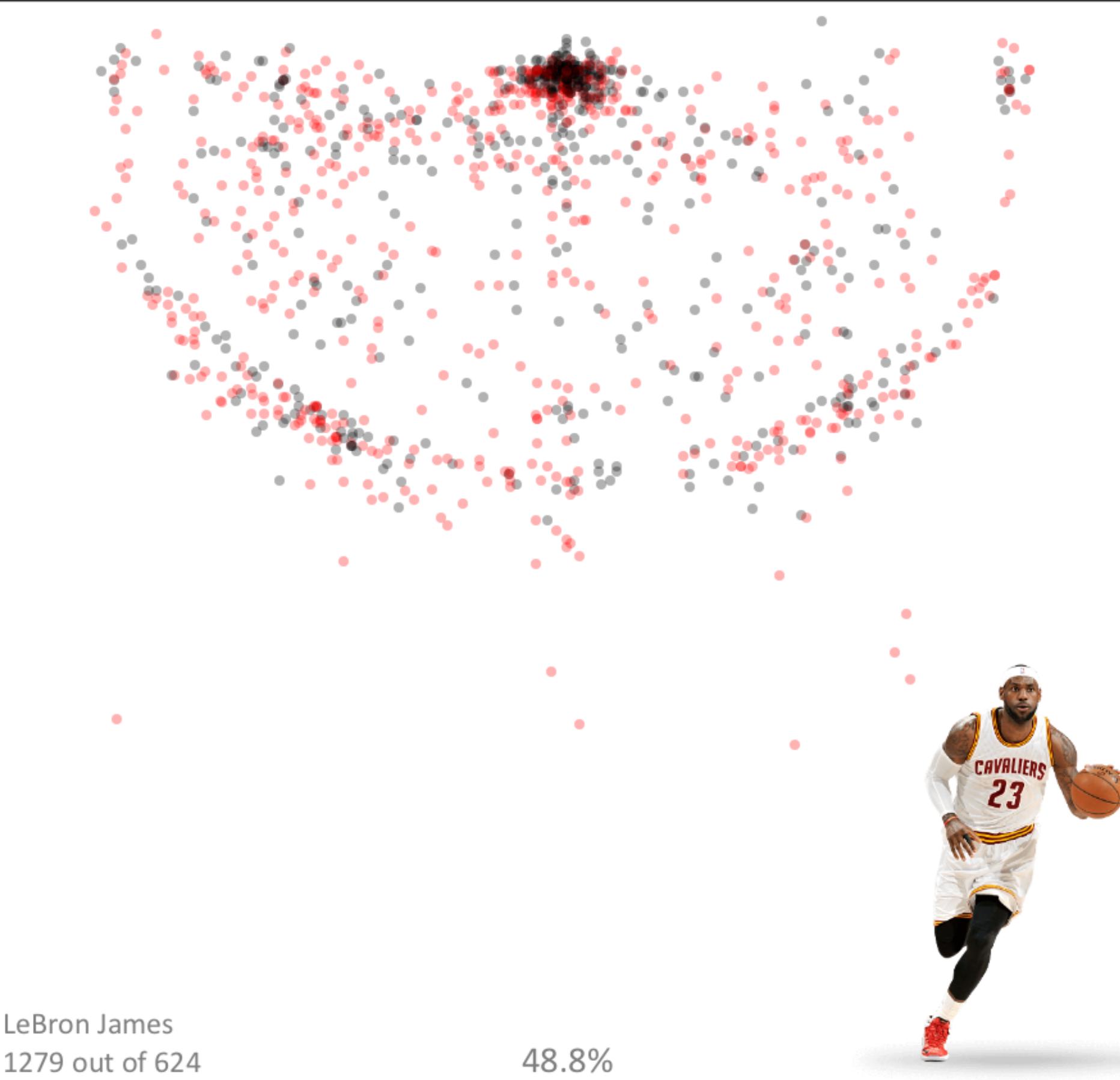


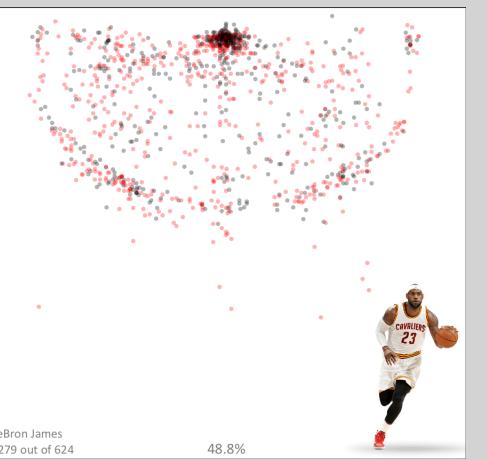
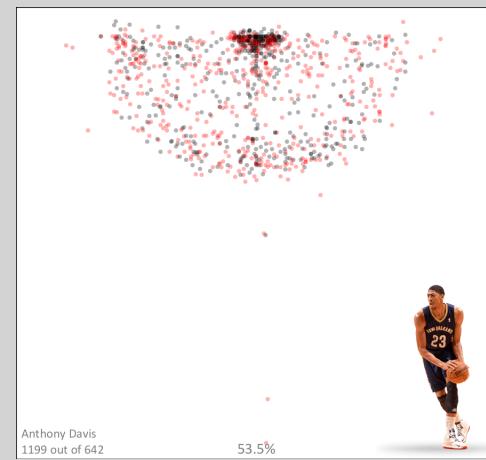
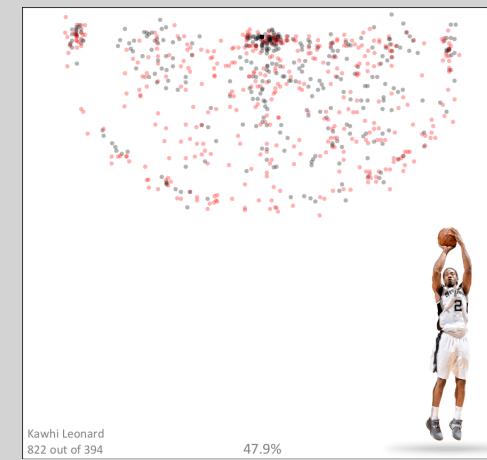
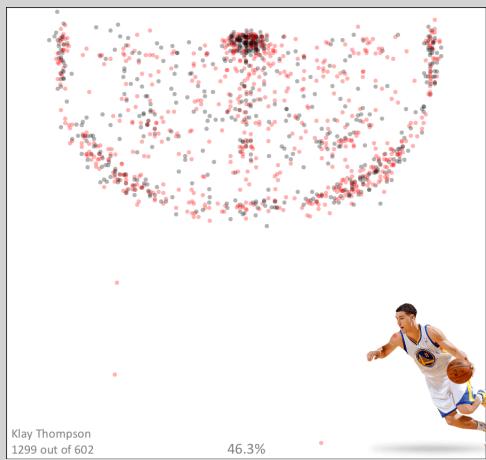
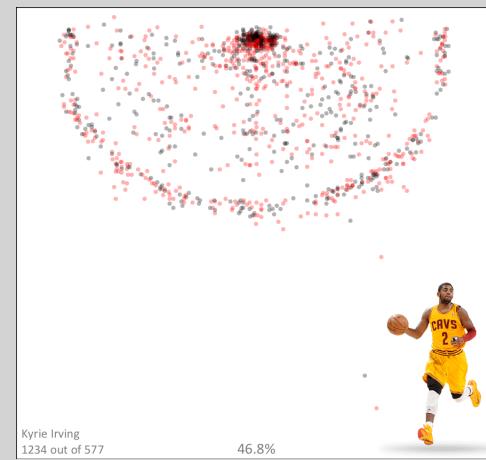
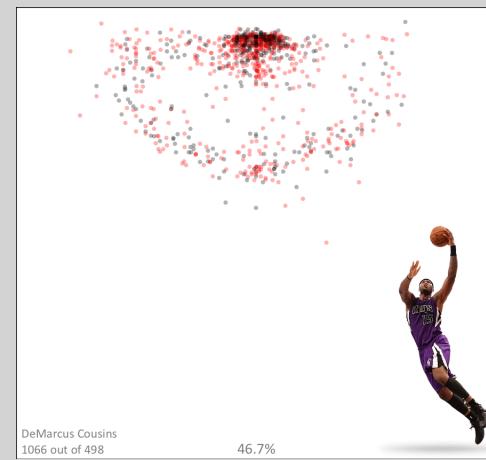
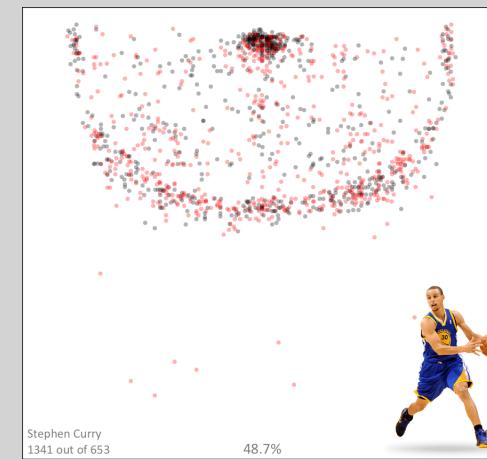
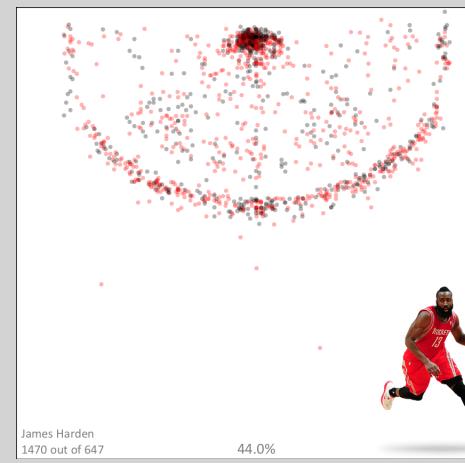
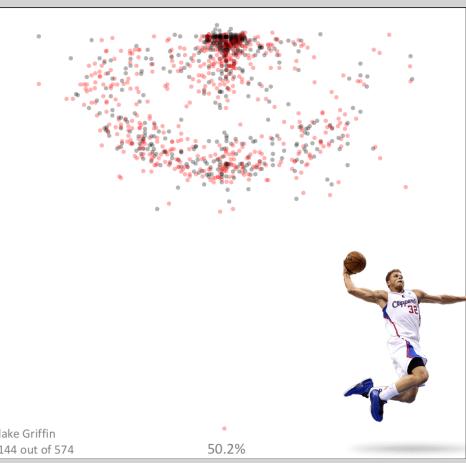
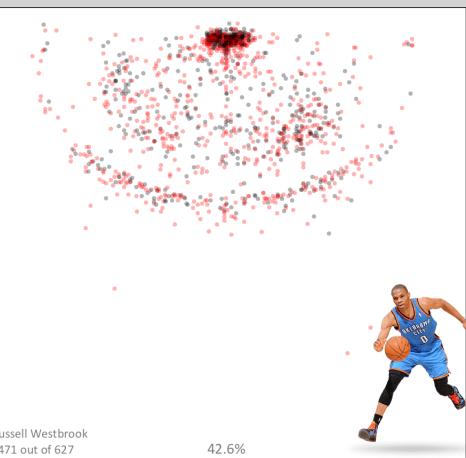


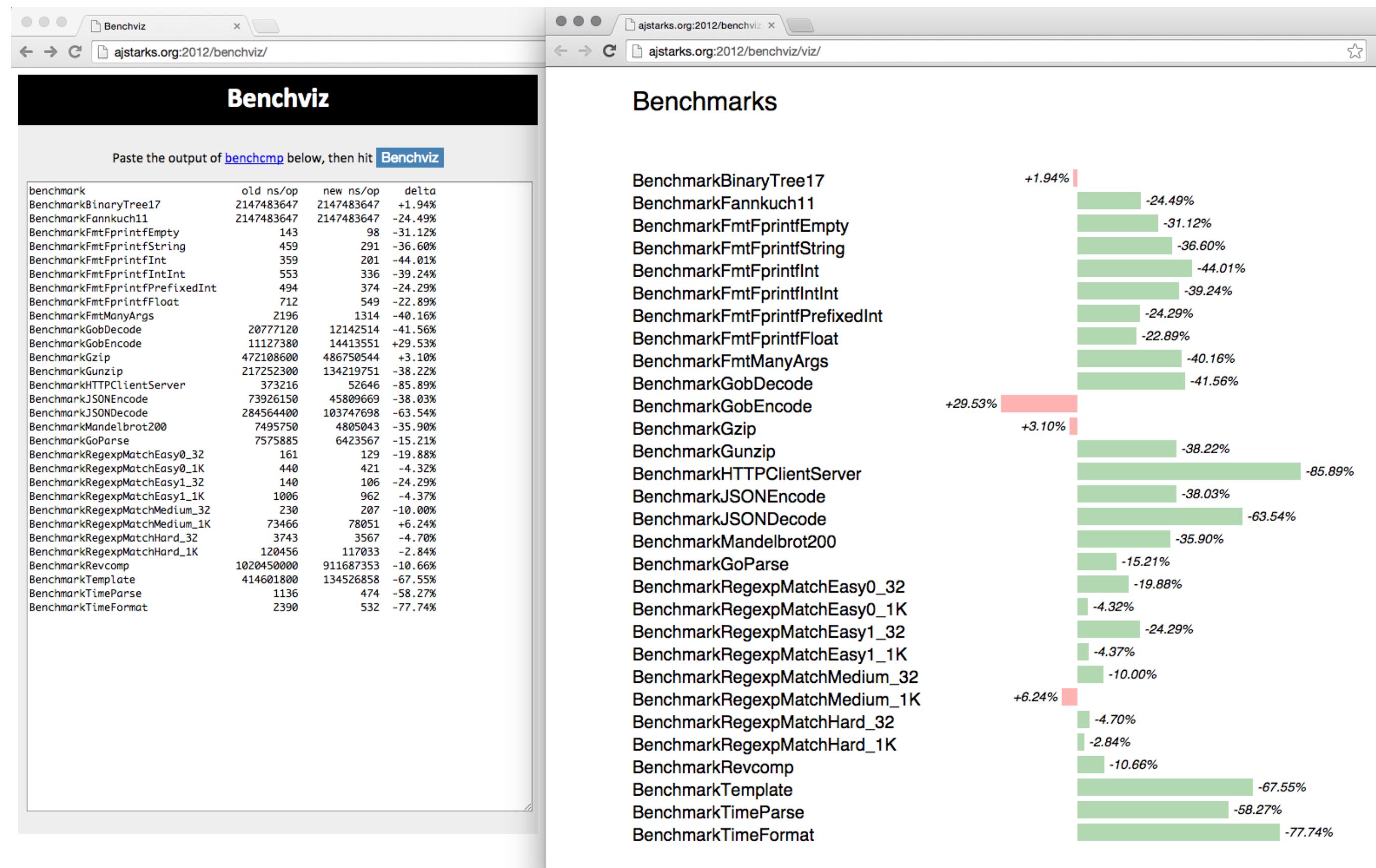












```
package main

import (
    "os"
    "github.com/ajstarks/svg"
)

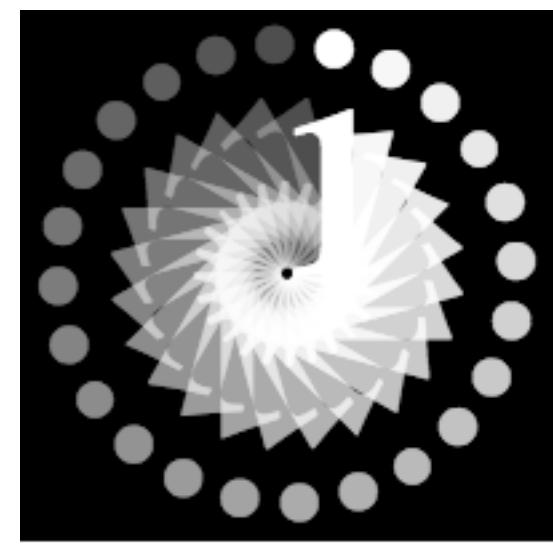
func main() {

    width := 200
    height := 200
    a := 1.0
    ai := 0.03
    ti := 15.0

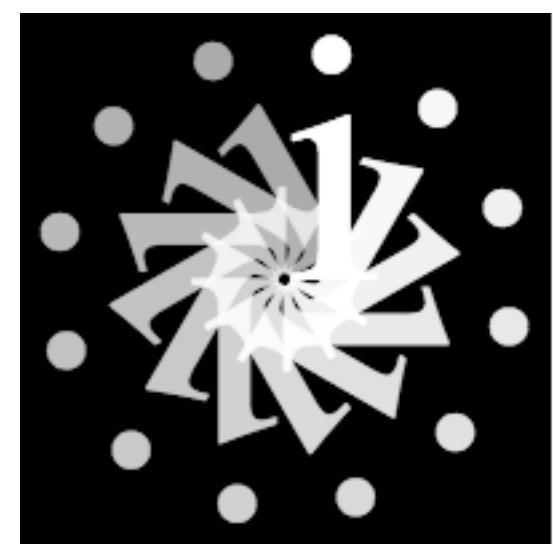
    canvas := svg.New(os.Stdout)
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("font-family:serif;font-size:100pt")

    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()
}
```

ti = 15



ti = 30

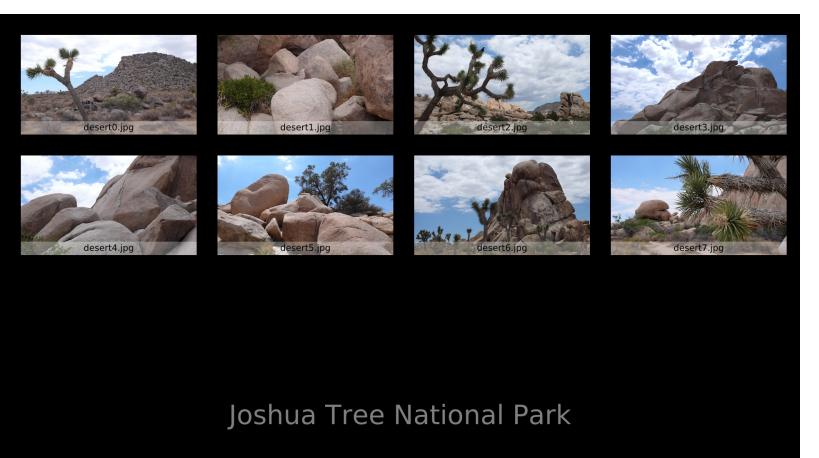
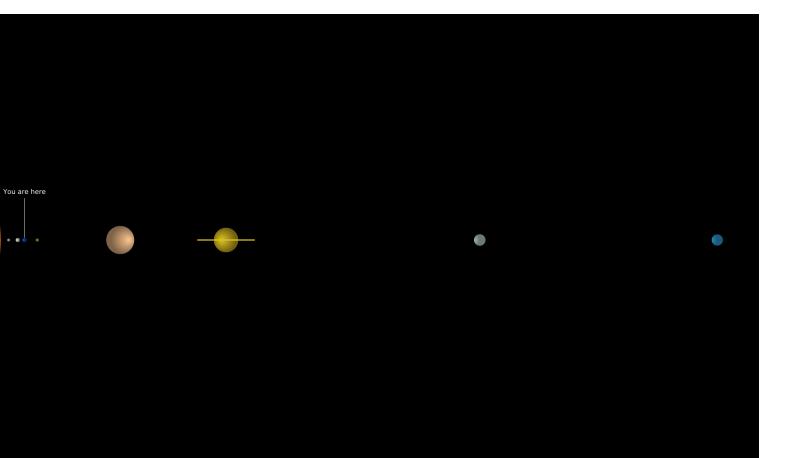
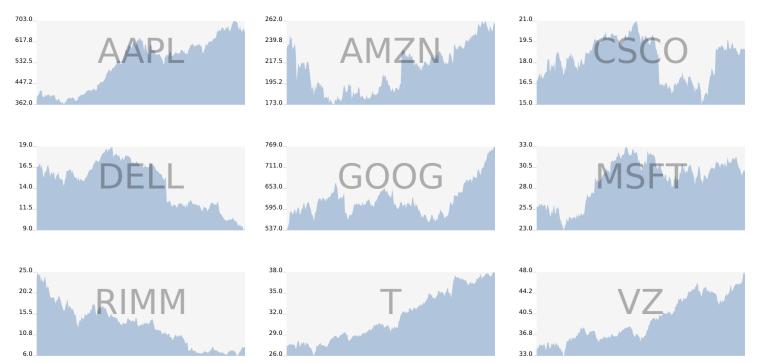
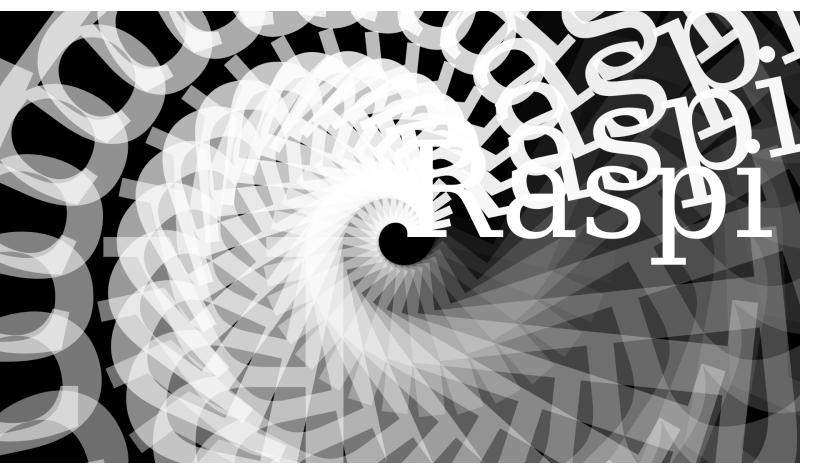
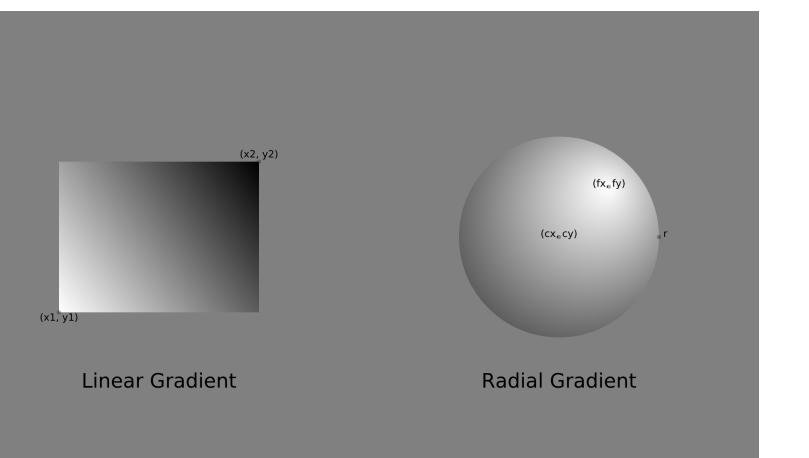


ti = 45





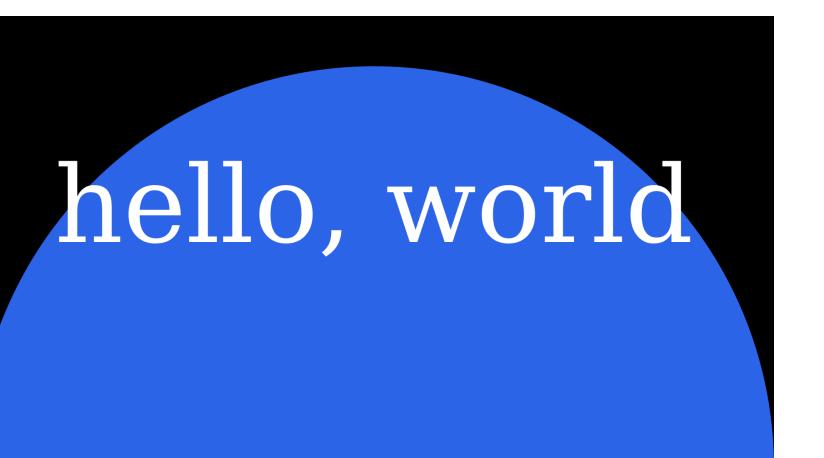
OpenVG on the Raspberry Pi



Why I use Go



Anthony Starks
@ajstarks
ajstarks@gmail.com



openvg

```
package main
import "fmt"

func main() {
    fmt.Println("hello, world")
}
```

This is the traditional hello, world program.
It's six lines long, and imports the fmt package,
leading some to be surprised at the size of the resulting binary.

```

package main

import (
    "bufio"
    "github.com/ajstarks/openvg"
    "os"
)

func main() {
    width, height := openvg.Init()

    w2 := openvg.VGfloat(width / 2)
    h2 := openvg.VGfloat(height / 2)
    w := openvg.VGfloat(width)

    openvg.Start(width, height)                      // Start the picture
    openvg.BackgroundColor("black")                   // Black background
    openvg.FillRGB(44, 100, 232, 1)                 // Big blue marble
    openvg.Circle(w2, 0, w)                         // The "world"
    openvg.FillColor("white")                       // White text
    openvg.TextMid(w2, h2, "hello, world", "serif", width/10) // Greetings
    openvg.End()                                    // End the picture
    bufio.NewReader(os.Stdin).ReadBytes('\n') // Pause until [RETURN]
    openvg.Finish()                                // Graphics cleanup
}

```



Openvg Functions

	Circle	(x, y, r VGfloat)
	Ellipse	(x, y, w, h VGfloat)
	Rect	(x, y, w, h VGfloat)
	Roundrect	(x, y, w, h, rw, rh VGfloat)
	Line	(x1, y1, x2, y2 VGfloat)
	Polyline	(x, y []VGfloat)
	Polygon	(x, y []VGfloat)
	Arc	(x, y, w, h, sa, aext VGfloat)
	Qbezier	(sx, sy, cx, cy, ex, ey VGfloat)
	Cbezier	(sx, sy, cx, cy, px, py, ex, ey VGfloat)
	Image	(x, y VGfloat, w, h int, s string)
	Text	(x, y VGfloat, s string, font string, size int)
	TextMid	(x, y VGfloat, s string, font string, size int)
	TextEnd	(x, y VGfloat, s string, font string, size int)

Deck



a Go package for presentations

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" link="http://goo.gl/Wm05Ex">Deck elements</text>
```

Make a bullet list

```
<list xp="20" yp="70" sp="2" type="bullet">
```

```
  <li>text, list, image</li>
```

```
  <li>line, rect, ellipse</li>
```

```
  <li>arc, curve, polygon</li>
```

```
</list>
```

End the 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" />
```

Draw a polygon

```
<polygon xc=75 75 80" yc="8 12 10" color="rgb(0,0,127)"/>
```

End the slide

```
</slide>
```

End of the deck

```
</deck>
```

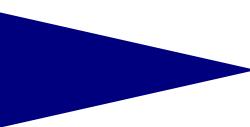
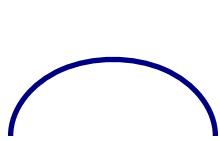
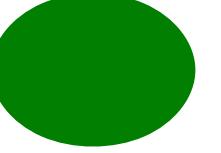
Anatomy of a Deck

Deck elements

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



Desk



Percent Grid

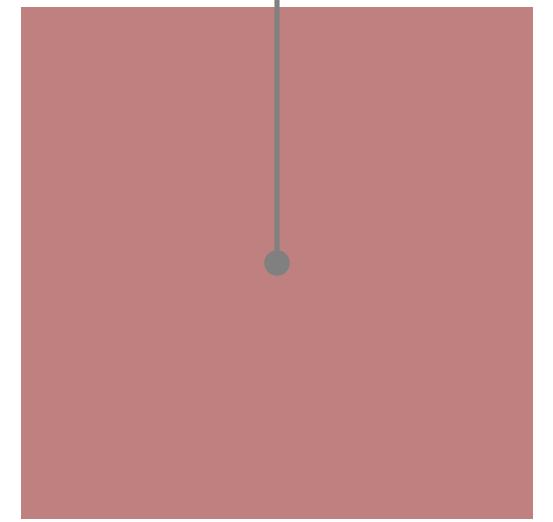
10%, 50%

Hello

50%, 50%

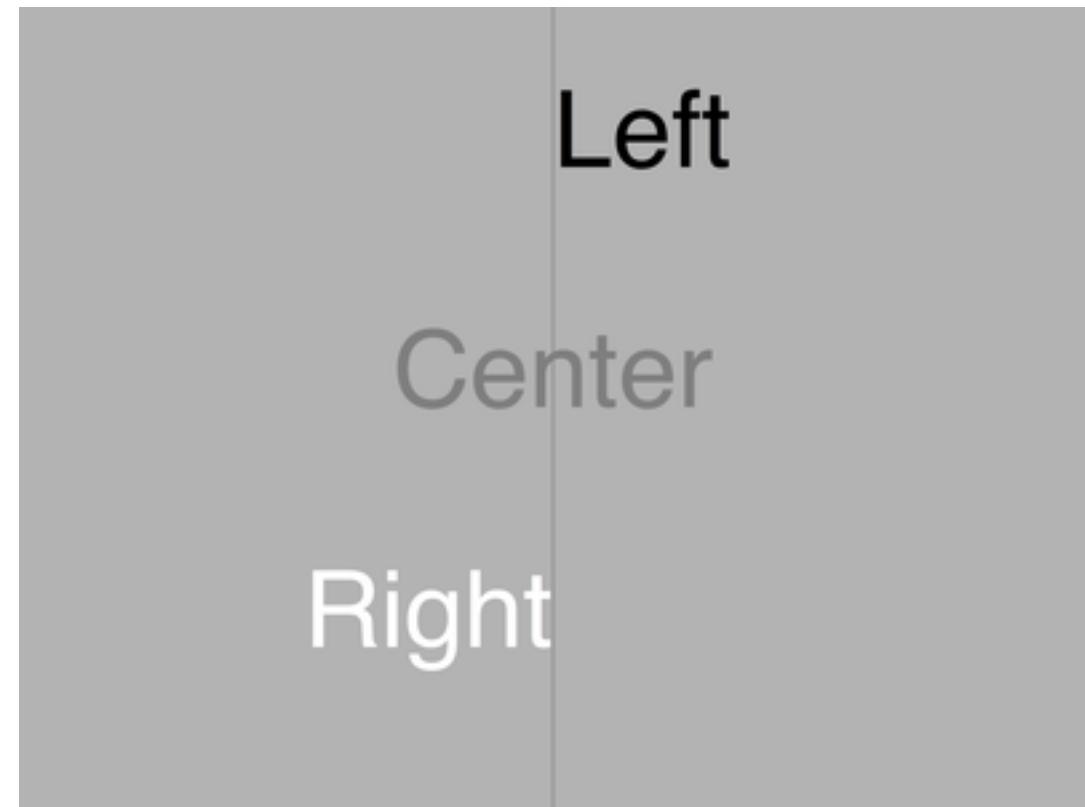


90%, 50%

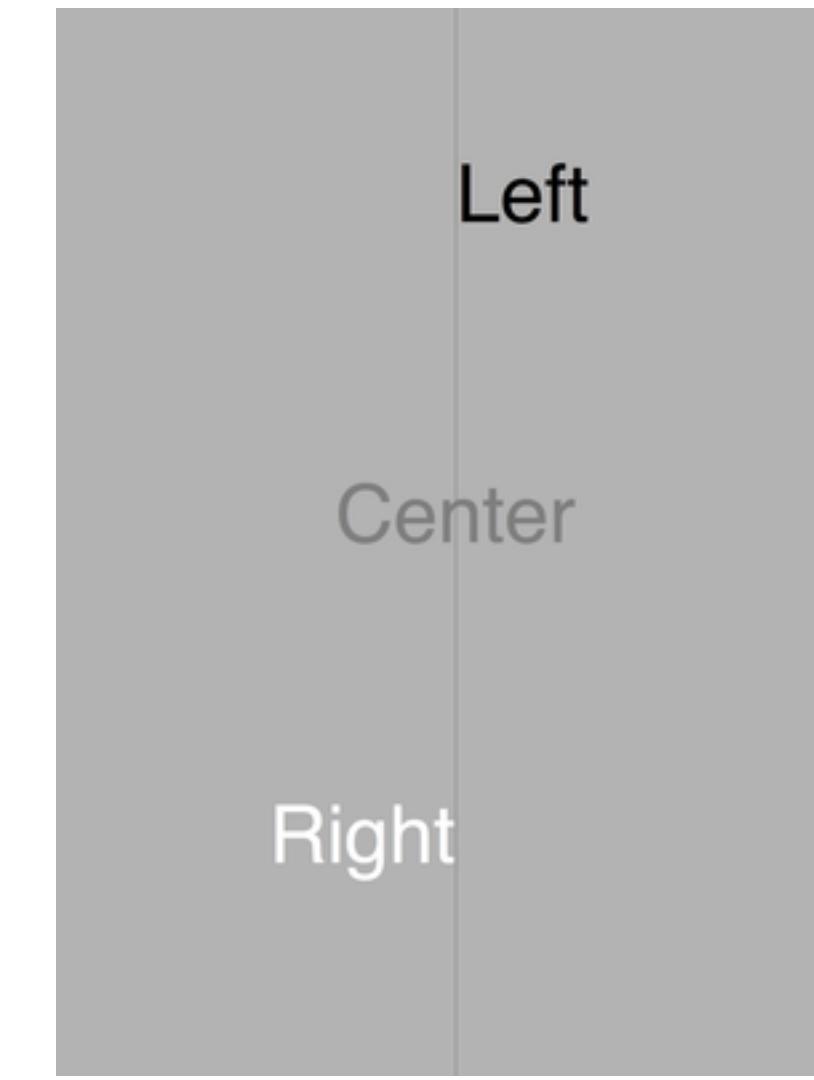


Percentage-based layout

Scaling the canvas



Landscape



Portrait

Process



deck code

interactive

PDF

SVG

NewSlides (where io.Writer, w, h int)

StartDeck() / EndDeck()

StartSlide (colors ...string) **EndSlide()**

Arc (x, y, w, h, size, a1, a2 float64, color string, opacity ...float64)

Circle (x, y, w float64, color string, opacity ...float64)

Code (x, y float64, s string, size, margin float64, color string, opacity ...float64)

Curve (x1, y1, x2, y2, x3, y3, size float64, color string, opacity ...float64)

Ellipse (x, y, w, h float64, color string, opacity ...float64)

Image (x, y float64, w, h int, name string)

Line (x1, y1, x2, y2, size float64, color string, opacity ...float64)

List (x, y, size float64, items []string, ltype, font, color string)

Polygon (x, y []float64, color string, opacity ...float64)

Rect (x, y, w, h float64, color string, opacity ...float64)

Square (x, y, w float64, color string, opacity ...float64)

Text (x, y float64, s, font string, size float64, color string, opacity ...float64)

TextBlock (x, y float64, s, font string, size, margin float64, color string, opacity ...float64)

TextEnd (x, y float64, s, font string, size float64, color string, opacity ...float64)

TextMid (x, y float64, s, font string, size float64, color string, opacity ...float64)

```

package main

import (
    "github.com/ajstarks/deck/generate"
    "os"
)

func main() {
    deck := generate.NewSlides(os.Stdout, 1600, 900) // 16x9 deck to standard output
    deck.StartDeck()                                // start the deck

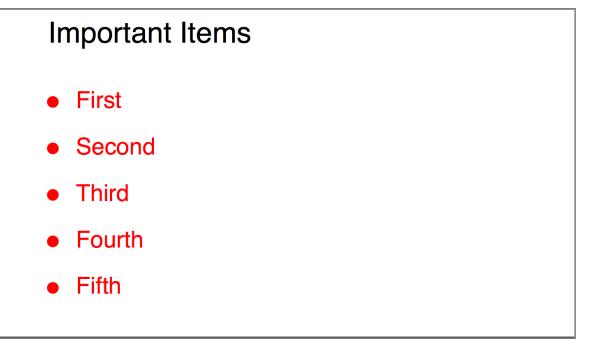
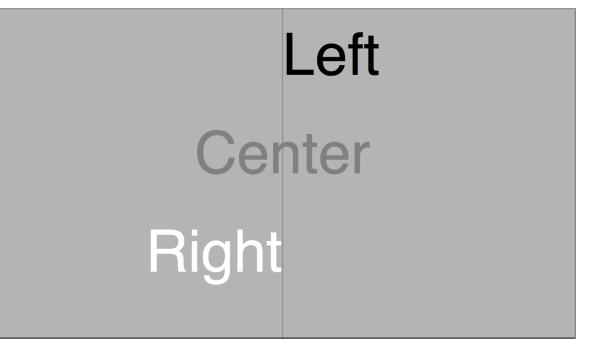
    // Text alignment
    deck.StartSlide("rgb(180,180,180)")
    deck.Text(50, 80, "Left", "sans", 10, "black")
    deck.TextMid(50, 50, "Center", "sans", 10, "gray")
    deck.TextEnd(50, 20, "Right", "sans", 10, "white")
    deck.Line(50, 100, 50, 0, 0.2, "black", 20)
    deck.EndSlide()

    // List
    items := []string{"First", "Second",
                      "Third", "Fourth", "Fifth"}
    deck.StartSlide()
    deck.Text(10, 90, "Important Items", "sans", 5, "")
    deck.List(10, 70, 4, items, "bullet", "sans", "red")
    deck.EndSlide()

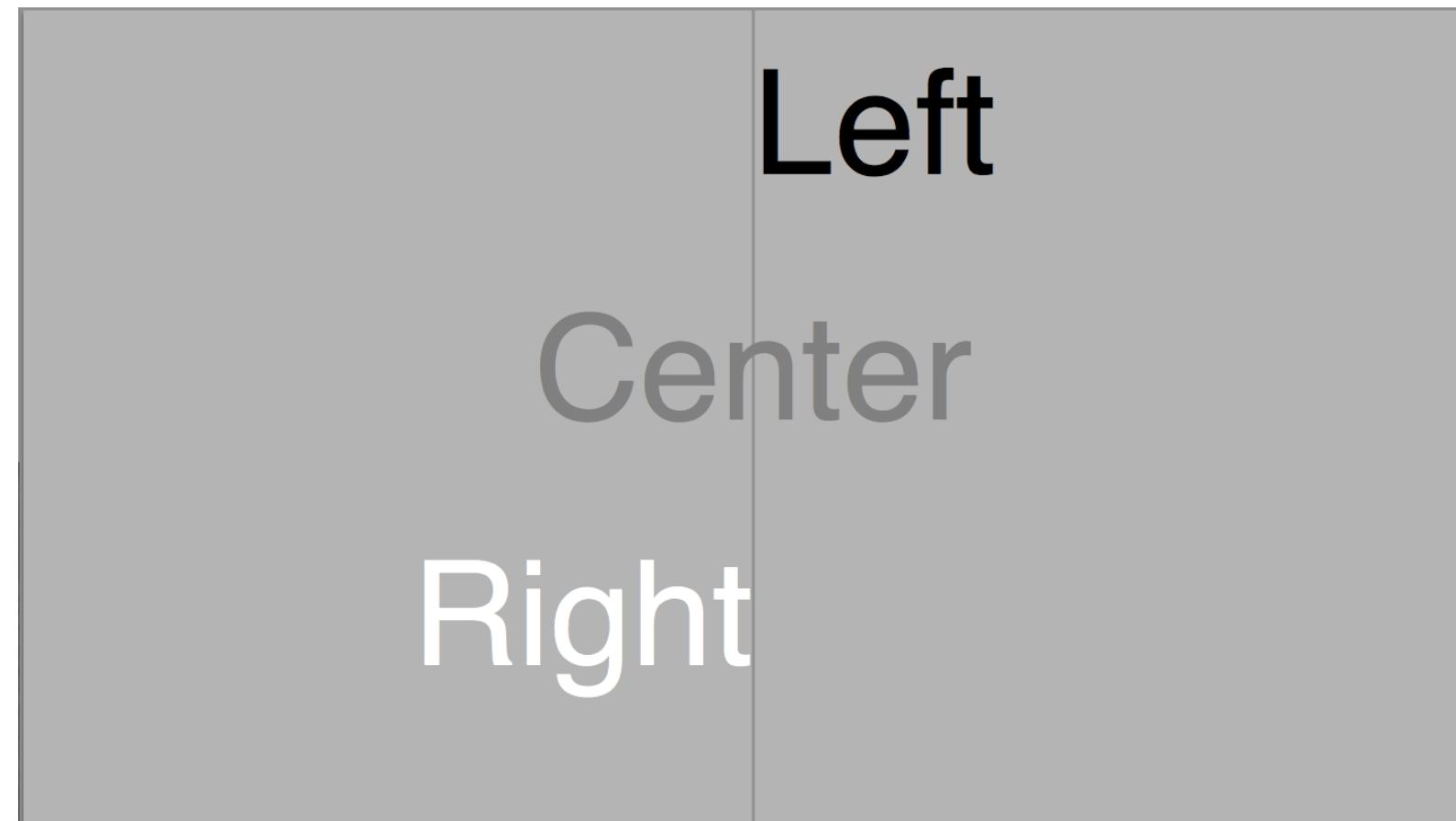
    // Picture with text annotation
    quote := "Yours is some tepid, off-brand, generic 'cola'. " +
        "What I'm making is \"Classic Coke\""
    person := "Heisenberg"
    deck.StartSlide("black", "white")
    deck.Image(50, 50, 1440, 900, "classic-coke.png")
    deck.TextBlock(10, 80, quote, "sans", 2.5, 30, "")
    deck.Text(65, 15, person, "sans", 1.2, "")
    deck.EndSlide()

    deck.EndDeck() // end the deck
}

```



```
// Text alignment
deck.StartSlide("rgb(180,180,180)")
deck.Text(50, 80, "Left", "sans", 10, "black")
deck.TextMid(50, 50, "Center", "sans", 10, "gray")
deck.TextEnd(50, 20, "Right", "sans", 10, "white")
deck.Line(50, 100, 50, 0, 0.2, "black", 20)
deck.EndSlide()
```



```
// List
items := []string{"First", "Second", "Third",
                    "Fourth", "Fifth"}
deck.StartSlide()
deck.Text(10, 90, "Important Items", "sans", 5, "")
deck.List(10, 70, 4, items, "bullet", "sans", "red")
deck.EndSlide()
```

Important Items

- First
- Second
- Third
- Fourth
- Fifth

```
// Picture with text annotation
quote := "Yours is some tepid, off-brand, generic 'cola'. " +
        "What I'm making is "Classic Coke""
person := "Heisenberg"
deck.StartSlide("black", "white")
deck.Image(50, 50, 1440, 900, "classic-coke.png")
deck.TextBlock(10, 80, quote, "sans", 2.5, 30, "")
deck.Text(65, 15, person, "sans", 1.2, "")
deck.EndSlide()
```



A View of User Experience: Designing for People

Anthony Starks / ajstarks@gmail.com / @ajstarks

Design



What works good is better than what looks good, because what works good lasts.

Ray Eames

Designing for People

title A View of User Experience: Designing for People Anthony Starks / ajstarks@gmail.com / @ajstarks

section Design gray white

caption eames.png Ray Eames What works good is better than what looks good, because what works good lasts.

capgen slides.txt | pdfdeck ... > slides.pdf

Design Examples

Top

Left

Right

Bottom

10%

30%

70%

10%

Header (top 10%)

Summary
(30%)

Detail
(70%)

Footer (bottom 10%)

My Story

Section

One

Two

Three

Four

Five

Six

Document Links

Add web and mailto links with the link attribute of the text element.

Once rendered as a PDF, clicking on the link opens the default browser or email client.

The image displays two side-by-side screenshots. The left screenshot shows a dark blue PDF page with white text. The text reads: "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." Below this, in a smaller font, is "Less is exponentially more" followed by "Rob Pike". The right screenshot shows a web browser window with a light gray header. The header says "command center: Less is e x" and the URL is "commandcenter.blogspot.com/2012/06/less-is-exp...". The main content area of the browser shows the same text as the PDF: "What you're given is a set of powerful but easy to understand, easy to use building blocks from which you can assemble—compose—a solution to your problem. It might not end up quite as fast or as sophisticated or as ideologically motivated as the solution you'd write in some of those other languages, but it'll almost certainly be easier to write, easier to read, easier to understand, easier to maintain, and maybe safer." Below this, another block of text reads: "To put it another way, oversimplifying of course: 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." At the bottom, there is a third block of text: "C++ programmers *don't* come to Go because they have fought hard to gain exquisite control of their programming domain, and don't want to surrender any of it. To them, software isn't just about getting the job done, it's about doing it a certain way." The bottom right corner of the browser window has a small caption: "The issue, then, is that Go's success would contradict their world view."

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

What you're given is a set of powerful but easy to understand, easy to use building blocks from which you can assemble—compose—a solution to your problem. It might not end up quite as fast or as sophisticated or as ideologically motivated as the solution you'd write in some of those other languages, but it'll almost certainly be easier to write, easier to read, easier to understand, easier to maintain, and maybe safer.

To put it another way, oversimplifying of course:

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.

C++ programmers *don't* come to Go because they have fought hard to gain exquisite control of their programming domain, and don't want to surrender any of it. To them, software isn't just about getting the job done, it's about doing it a certain way.

The issue, then, is that Go's success would contradict their world view.

BOS



SFO

Virgin America 351

Gate B38

8:35am

On Time

JFK



IND

US Airways 1207

Gate C31C

5:35pm

Delayed

AAPL 110.22 +0.97 (0.89%)

AMZN 294.74 +3.33 (1.14%)

FB 76.45 -0.27 (0.35%)

GOOG 496.18 +3.63 (0.74%)

MSFT 46.35 -0.24 (0.53%)

Closing Price, 2015-01-13

Two Columns

One

Two

Three

Four



Tree and Sky

Five

Six

Seven

Eight



Rocks

go

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
generate	generate Go files by processing source
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

This is not a index card

Rich

Can't buy me love

Bliss

Worse

Better

Misery

We have each other

Poor

So, the next time you're
about to make a subclass,
think hard and ask yourself
what would Go do

Andrew Mackenzie-Ross



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.

Song of Solomon 2:11-12

Good Design

is innovative

makes a product useful

is aesthetic

makes a product understandable

is unobtrusive

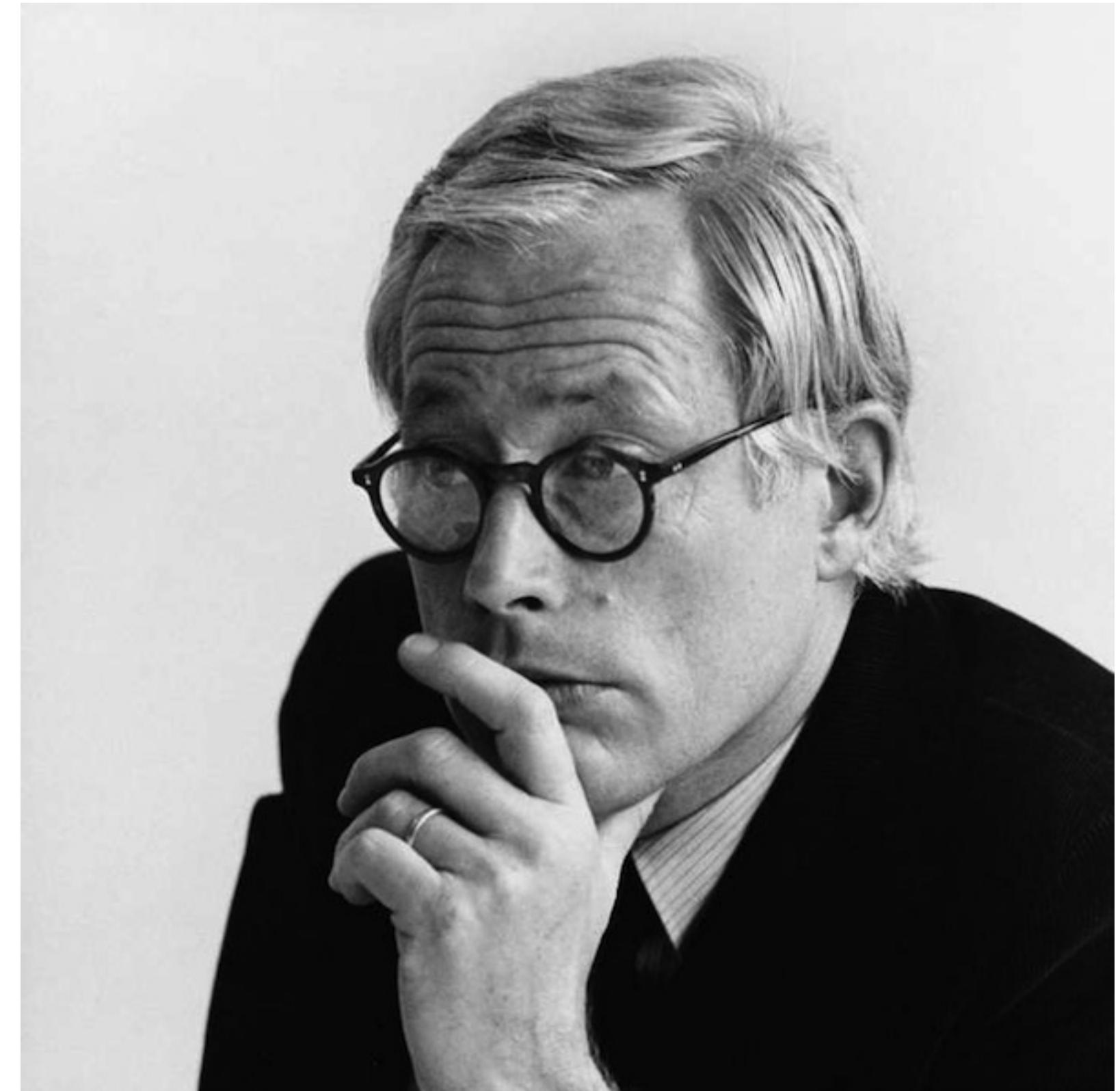
is honest

is long-lasting

is thorough down to the last detail

is environmentally-friendly

is as little design as possible



Dieter Rams

What is it about Go?

Thompson wanted to create a comfortable computing environment constructed according to his own design, using whatever means were available

The Development of the C Language, Dennis M. Ritchie

Go is not the product of a Whiggish development process. We were just trying to get something that worked for us.

Rob Pike

Making Tools

Fun

fmt

func

Writer
Reader

net/http

encoding/xml
encoding/json

cgo

The Community

Re: [go-nuts] Visualizing Random Number Generators:
/dev/urandom vs. Go rand package



Inbox x



Russ Cox rsc@golang.org via google.com

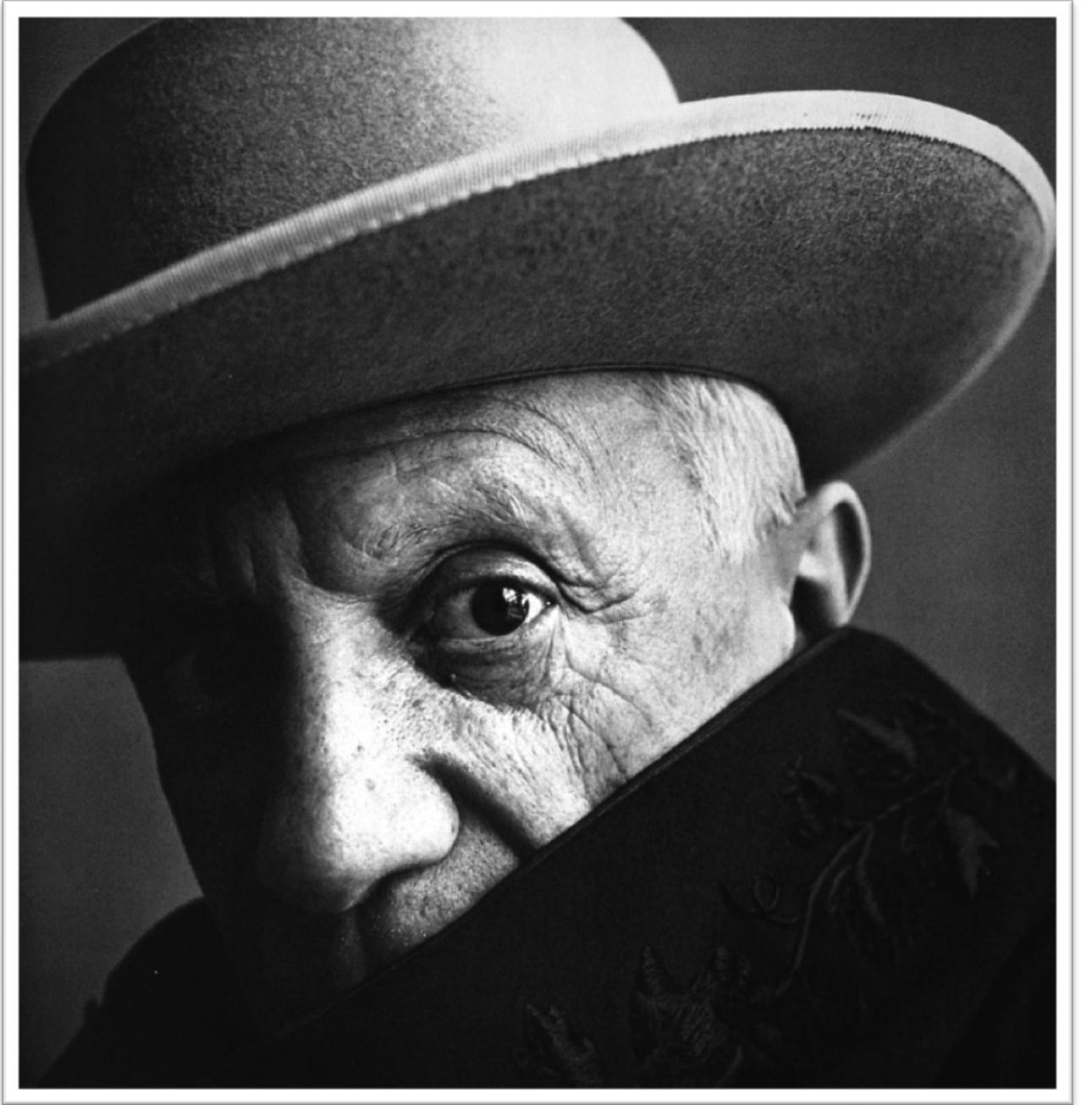
3/5/10

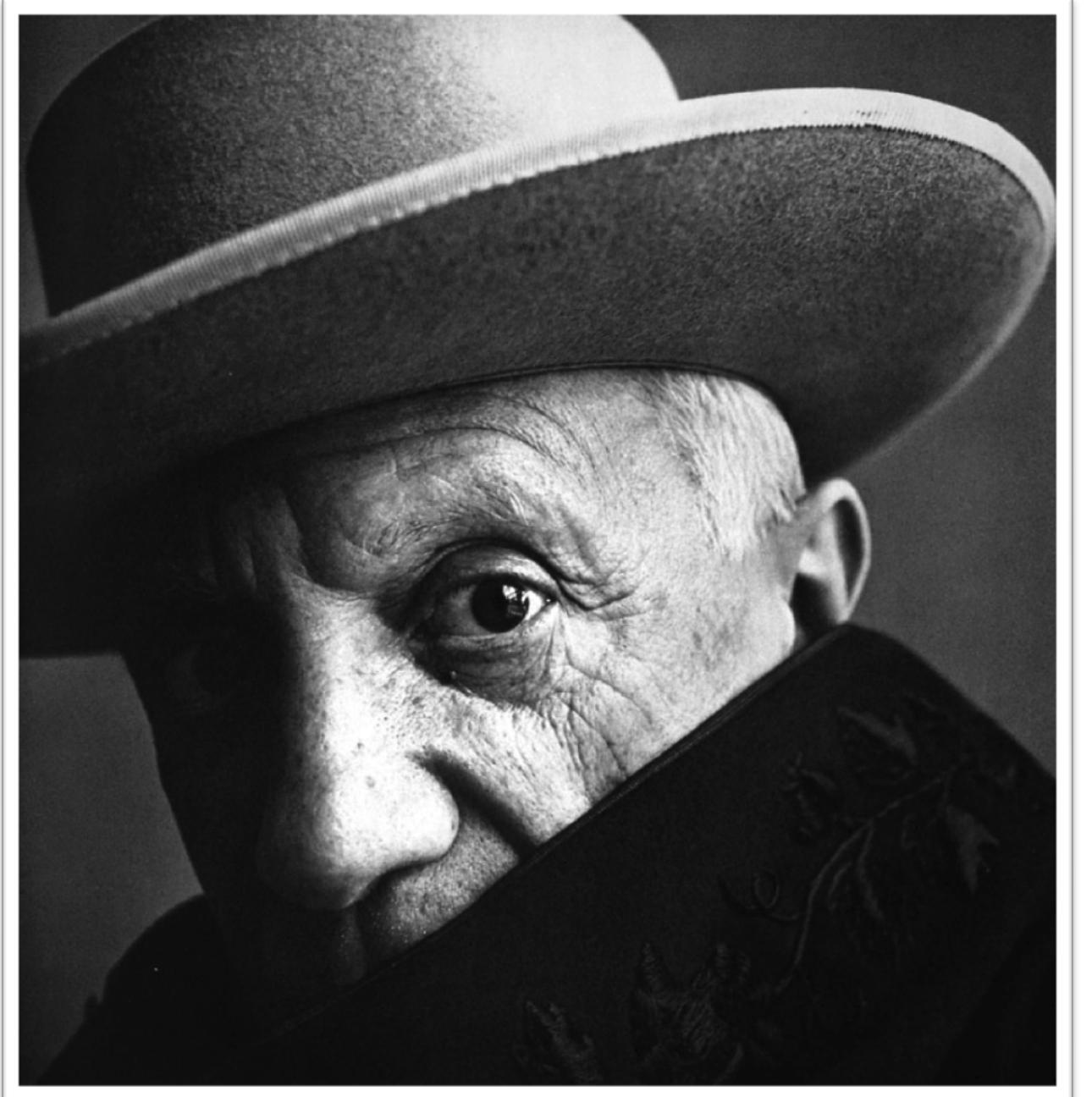


to me ▾

are you going to share the library or just
tease us with pictures? ;-)

Reducing the distance from
the idea to the picture





Picasso



Turing

Thank you



github.com/ajstarks



[@ajstarks](https://twitter.com/ajstarks)



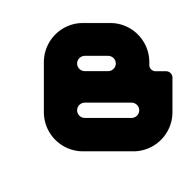
ajstarks@gmail.com



flickr.com/photos/ajstarks



speakerdeck.com/ajstarks



mindchunk.blogspot.com