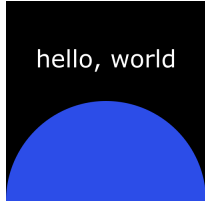


SVG Examples



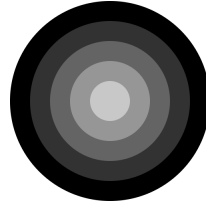
hello.go



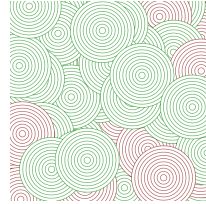
colorhash.go



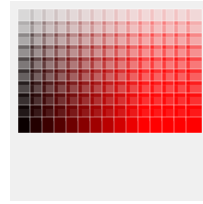
rl.go



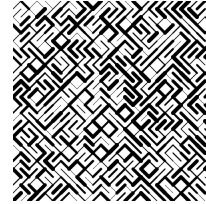
concentric.go



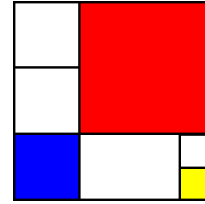
concentric2.go



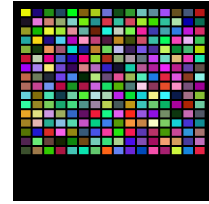
cgrid.go



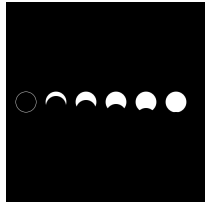
diag.go



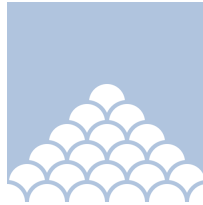
mondrian.go



richter.go



eclipse.go



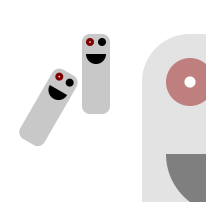
pyramid.go



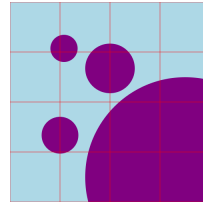
cloud.go



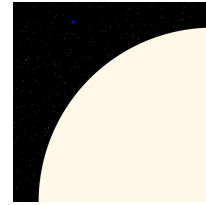
color-clouds.go



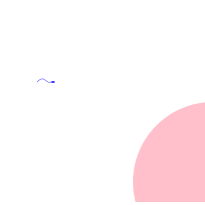
creepy.go



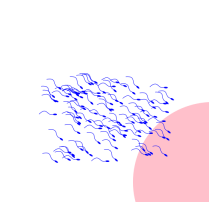
d4h.go



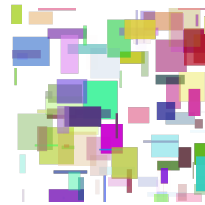
sunearth.go



conception.go



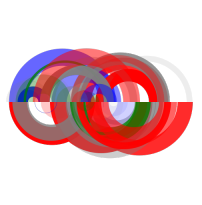
conception2.go



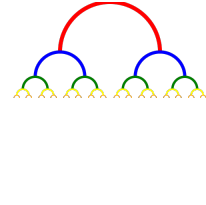
randbox.go



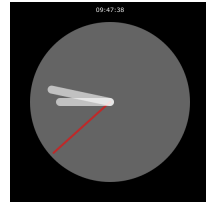
randspot.go



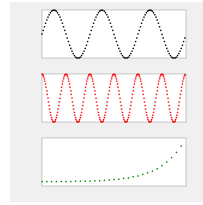
randarc.go



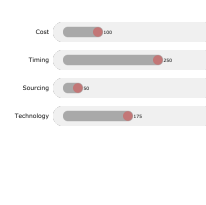
recurse.go



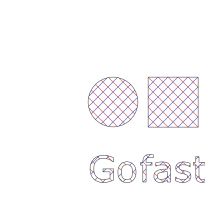
clock.go



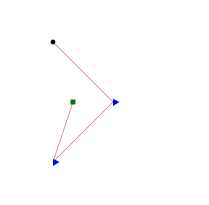
plotfunc.go



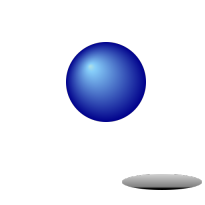
therm.go



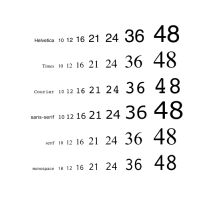
pattern.go



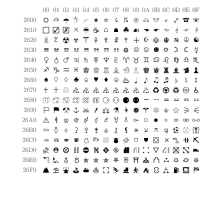
marker.go



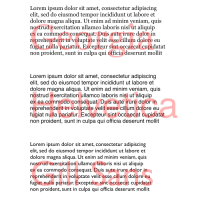
gradient.go



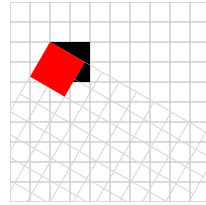
fontrange.go



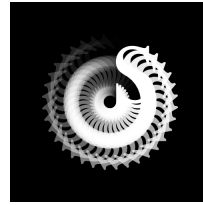
uni.go



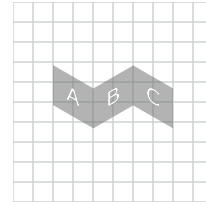
lorem.go



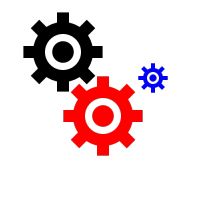
rotate.go



rotext.go



skewabc.go



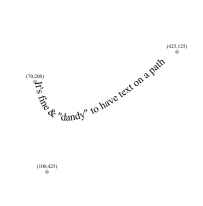
gear.go



star.go



swoosh.go



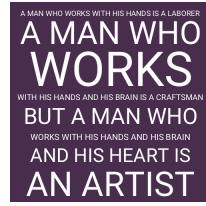
textpath.go



imfade.go



fe.go



artist.go

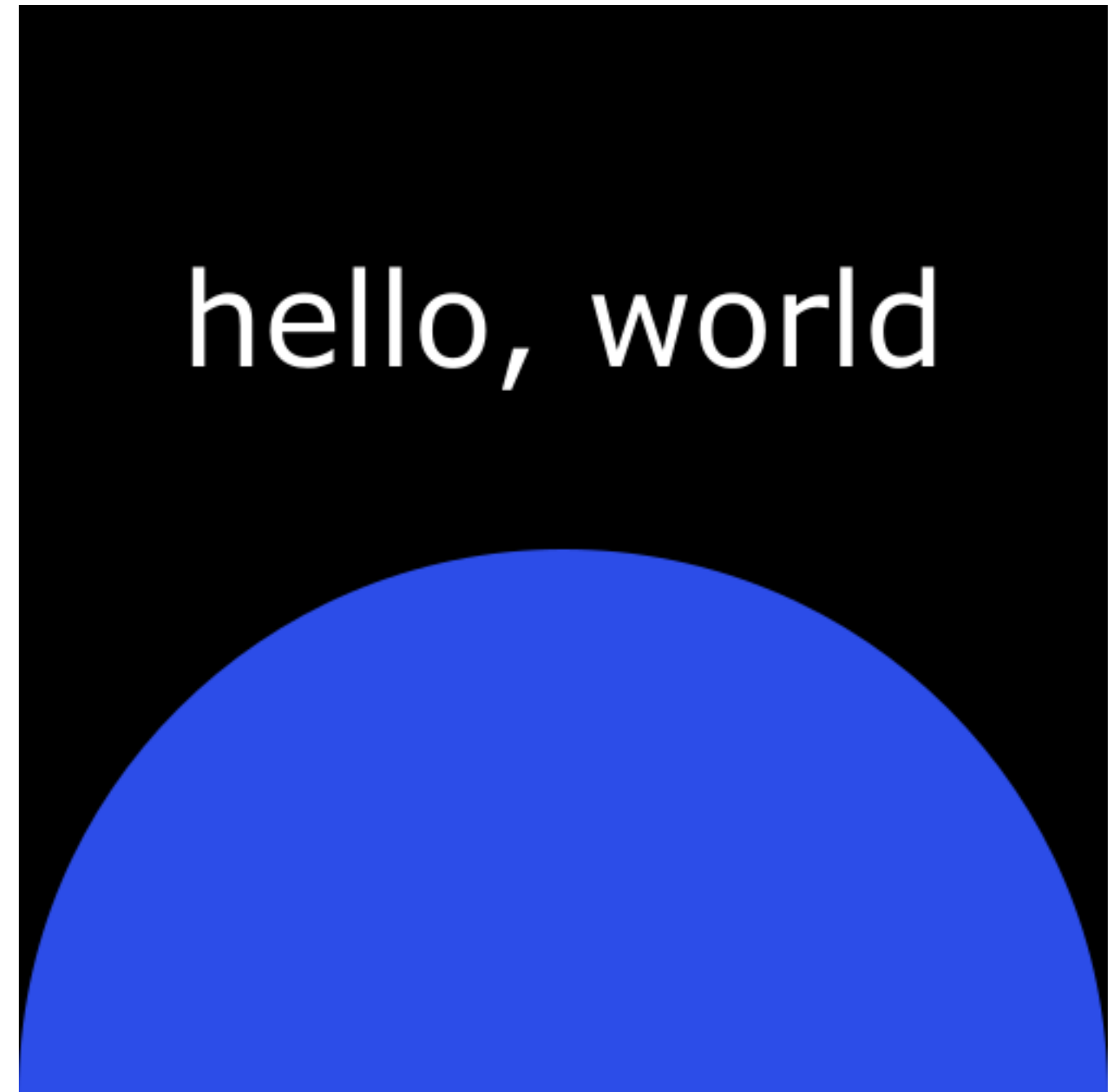
```
package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    style := "fill:white;font-size:48pt;text-anchor:middle"
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Circle(width/2, height, width/2, "fill:rgb(44, 77, 232)")
    canvas.Text(width/2, height/3, "hello, world", style)
    canvas.End()
}
```



```
package main

import (
    "crypto/md5"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func colorhash(s string) (int, int, int) {
    hash := md5.New()
    hash.Write([]byte(s))
    v := hash.Sum(nil)
    return int(v[0]), int(v[1]), int(v[2])
}

func main() {
    name := "SVGo"
    style := "fill:white;text-anchor:middle;font-size:72pt"
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, canvas.RGB(colorhash(name)))
    canvas.Text(width/2, height/2, name, style)
    canvas.End()
}
```

The image shows the 'SVGo' logo in a white, sans-serif font, centered on a dark green rectangular background.

```
package main

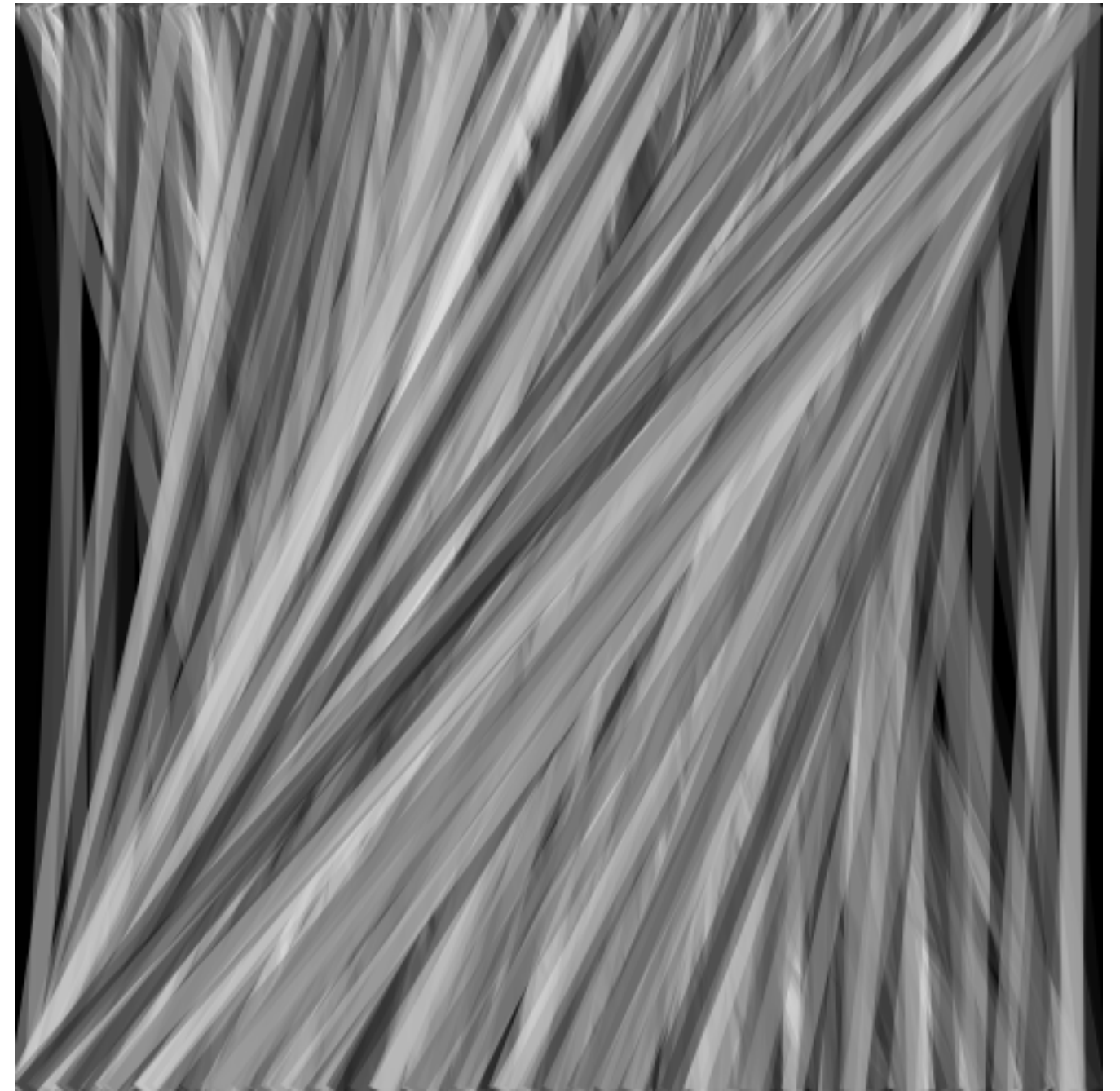
import (
    "fmt"
    "math/rand"
    "os"
    "time"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("stroke-width:10")

    for i := 0; i < width; i++ {
        r := rand.Intn(255)
        canvas.Line(i, 0, rand.Intn(width), height,
            fmt.Sprintf("stroke:rgb(%d,%d,%d); opacity:0.39", r, r, r))
    }
    canvas.Gend()
    canvas.End()
}
```



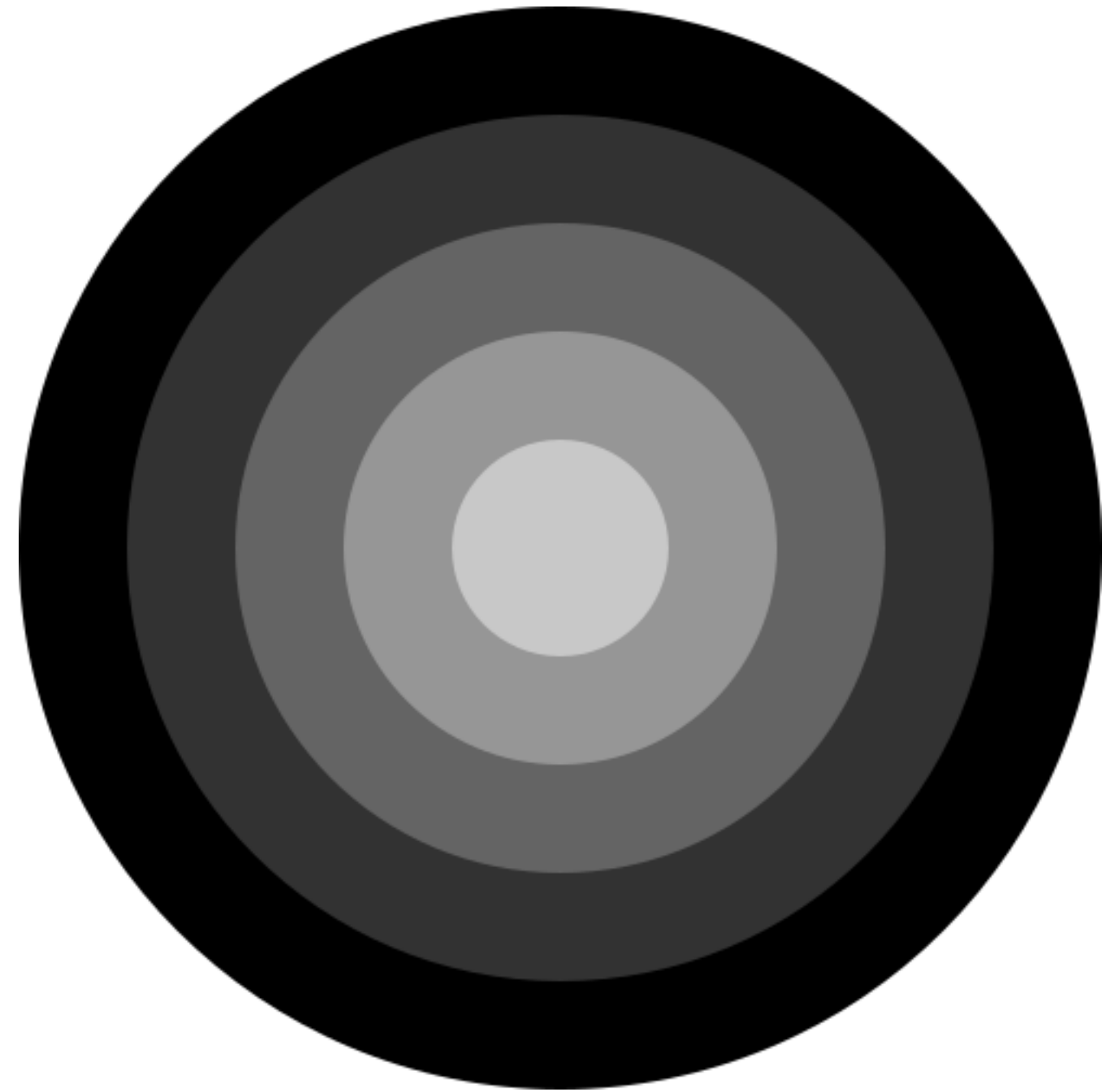
```
package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    r := height / 2
    for g := 0; g < 250; g += 50 {
        canvas.Circle(width/2, width/2, r, canvas.RGB(g, g, g))
        r -= 50
    }
    canvas.End()
}
```




```

package main

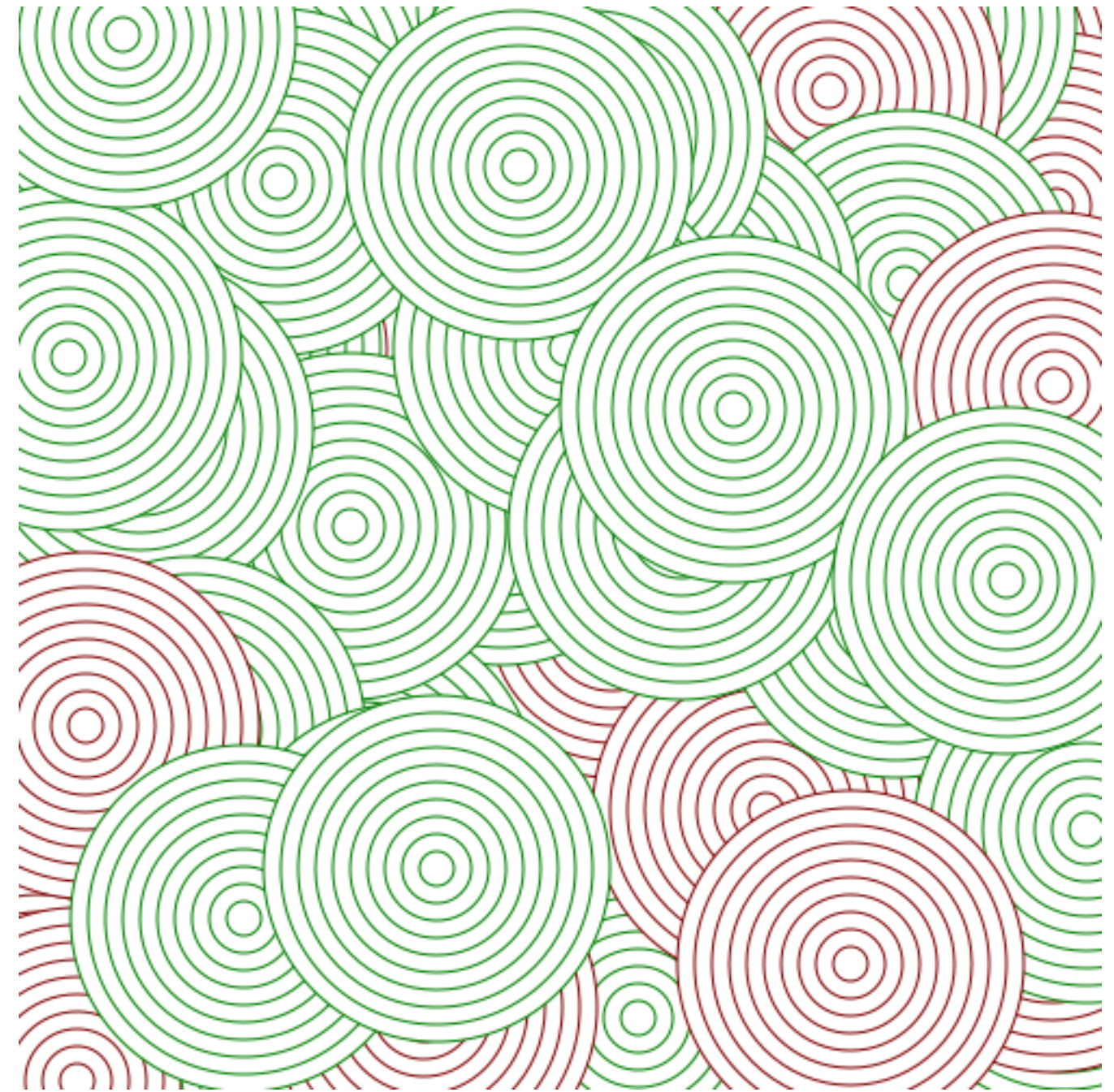
import (
    "math/rand"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    canvas.Start(width, height)
    canvas.Gstyle("fill:white")
    var color string
    radius := 80
    step := 8
    for i := 0; i < 200; i++ {
        if i%4 == 0 {
            color = "rgb(127,0,0)"
        } else {
            color = "rgb(0,127,0)"
        }
        x, y := rand.Intn(width), rand.Intn(height)
        for r, nc := radius, 0; nc < 10; nc++ {
            canvas.Circle(x, y, r, "stroke:"+color)
            r -= step
        }
    }
    canvas.Gend()
    canvas.End()
}

```



```

package main

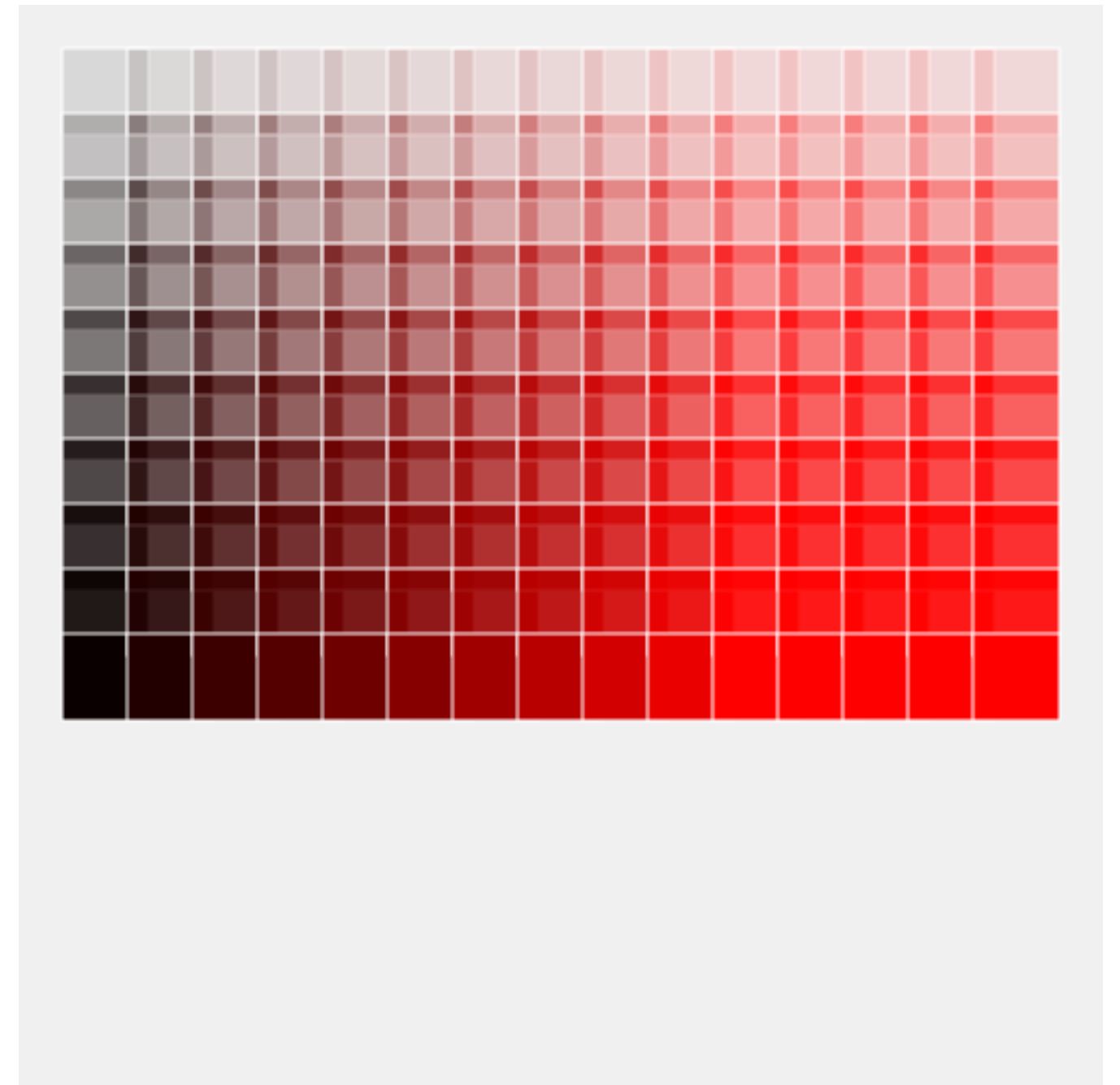
import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    y := 20
    v := 10
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(240,240,240)")
    canvas.Gstyle("stroke:white")
    for x := 20; x < 450; x += 30 {
        op := 0.1
        for i := 0; i < 100; i += 10 {
            canvas.Square(x, y, 20*2, canvas.RGBA(v, 0, 0, op))
            y += 30
            op += 0.1
        }
        y = 20
        v += 25
    }
    canvas.Gend()
    canvas.End()
}

```



```

package main

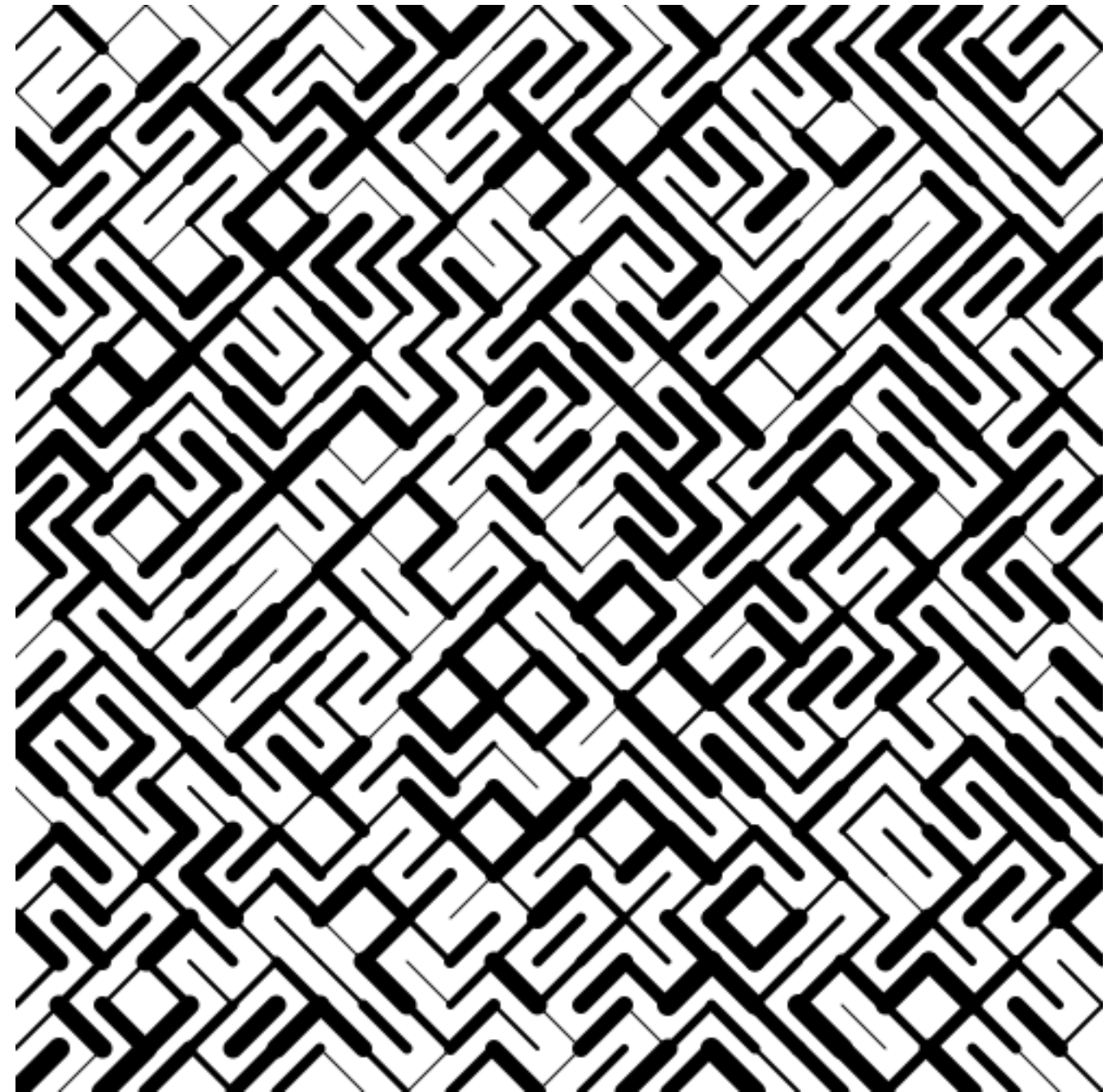
import (
    "fmt"
    "math/rand"
    "os"
    "time"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    tiles, maxstroke := 25, 10
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    linecaps := []string{"butt", "round", "square"}
    strokefmt := "stroke-width:%d"
    lcfmt := "stroke:black;stroke-linecap:%s"
    canvas.Gstyle(fmt.Sprintf(lcfmt, linecaps[rand.Intn(3)]))
    var sw string
    for y := 0; y < tiles; y++ {
        for x := 0; x < tiles; x++ {
            px := width / tiles * x
            py := height / tiles * y
            if rand.Intn(100) > 50 {
                sw = fmt.Sprintf(strokefmt, rand.Intn(maxstroke)+1)
                canvas.Line(px, py, px+width/tiles, py+height/tiles, sw)
            } else {
                sw = fmt.Sprintf(strokefmt, rand.Intn(maxstroke)+1)
                canvas.Line(px, py+height/tiles, px+width/tiles, py, sw)
            }
        }
    }
    canvas.Gend()
    canvas.End()
}

```




```

package main

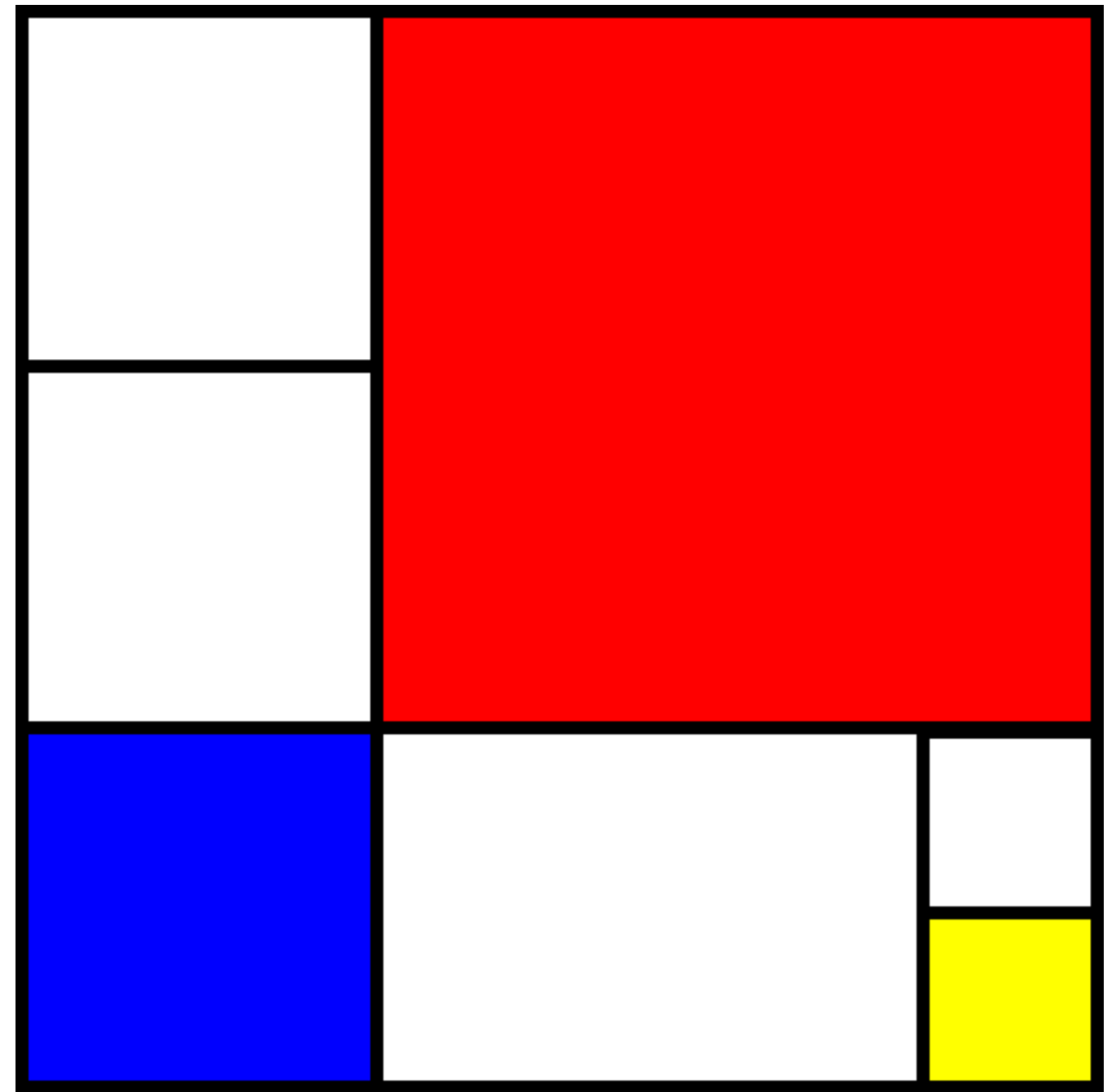
import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svgo.New(os.Stdout)
    width  = 500
    height = 500
)

// Piet Mondrian - Composition in Red, Blue, and Yellow
func main() {
    w3 := width / 3
    w6 := w3 / 2
    w23 := w3 * 2
    canvas.Start(width, height)
    canvas.Gstyle("stroke:black;stroke-width:6")
    canvas.Rect(0, 0, w3, w3, "fill:white")
    canvas.Rect(0, w3, w3, w3, "fill:white")
    canvas.Rect(0, w23, w3, w3, "fill:blue")
    canvas.Rect(w3, 0, w23, w23, "fill:red")
    canvas.Rect(w3, w23, w23, w3, "fill:white")
    canvas.Rect(width-w6, height-w3, w3-w6, w6, "fill:white")
    canvas.Rect(width-w6, height-w6, w3-w6, w6, "fill:yellow")
    canvas.Gend()
    canvas.Rect(0, 0, width, height, "fill:none;stroke:black;stroke-width:12")
    canvas.End()
}

```



```

package main

import (
    "math/rand"
    "os"
    "time"

    "github.com/ajstarks/svggo"
)

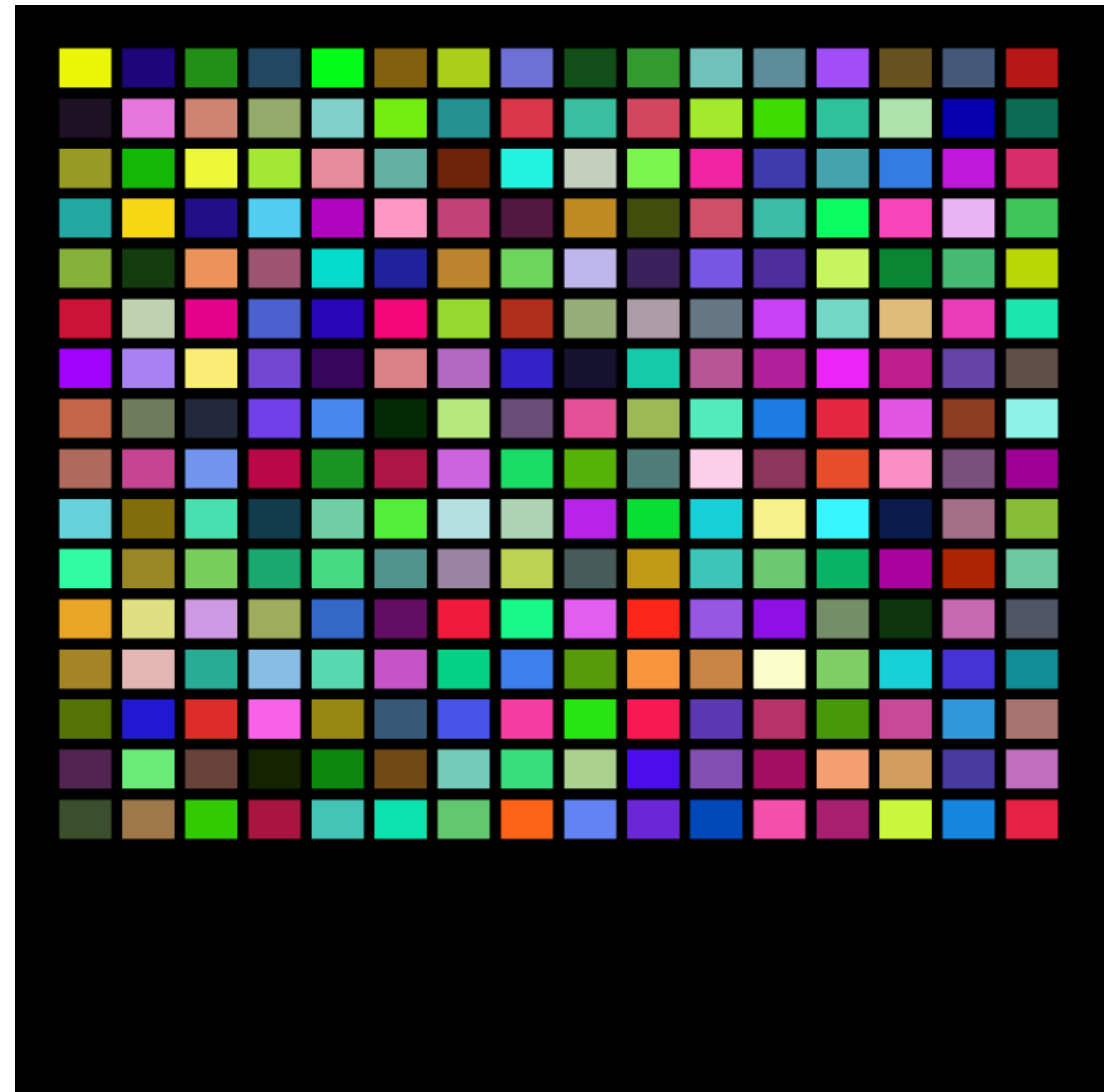
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

// inspired by Gerhard Richter's 256 colors, 1974
func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)

    w, h, gutter := 24, 18, 5
    rows, cols := 16, 16
    top, left := 20, 20

    for r, x := 0, left; r < rows; r++ {
        for c, y := 0, top; c < cols; c++ {
            canvas.Rect(x, y, w, h,
                canvas.RGB(rand.Intn(255), rand.Intn(255), rand.Intn(255)))
            y += (h + gutter)
        }
        x += (w + gutter)
    }
    canvas.End()
}

```



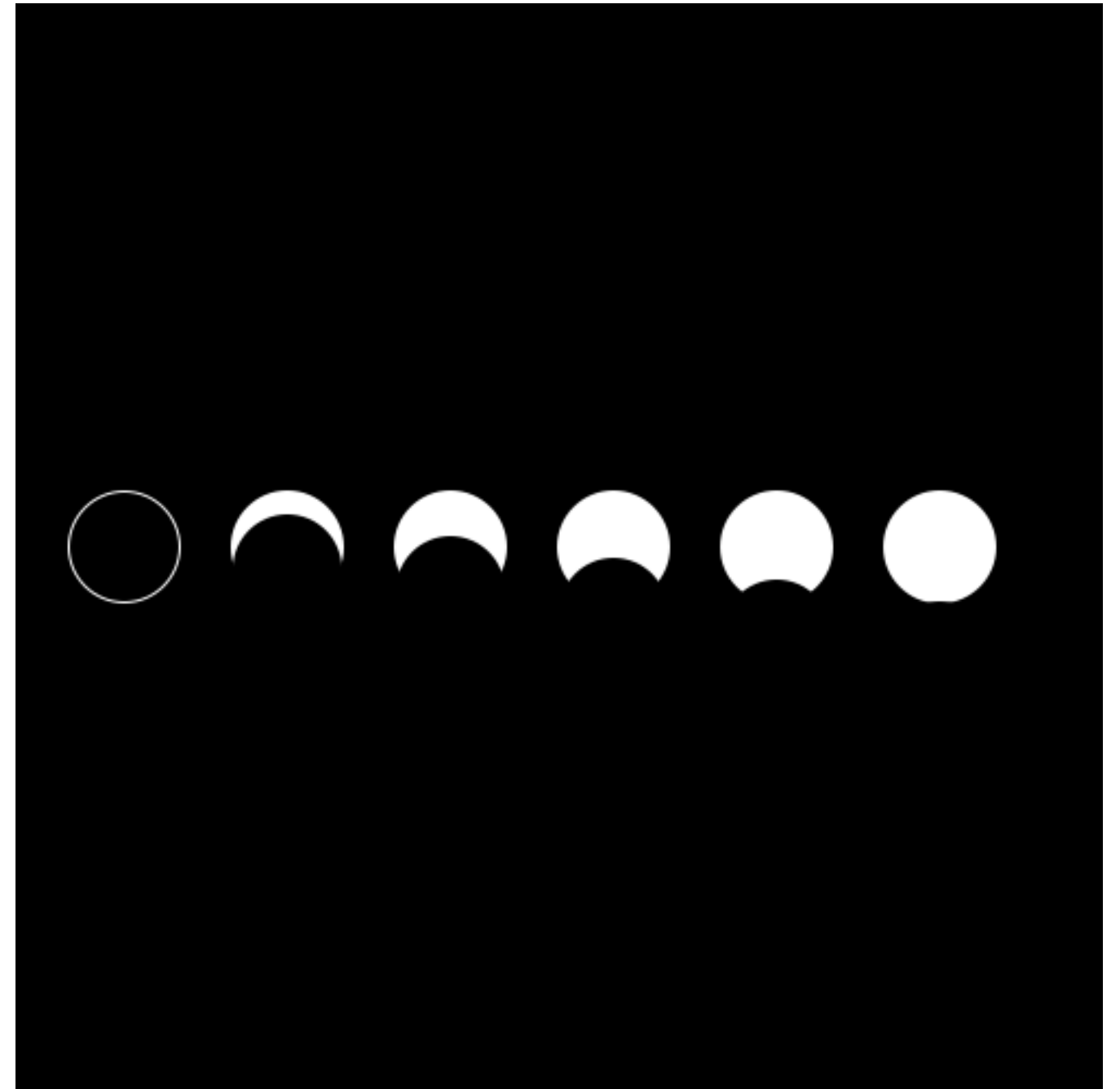
```
package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    h2 := height / 2
    r := width / 20
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    for x, y := 50, h2; x < 450; x += 75 {
        canvas.Circle(x, h2, r+1, "fill:white")
        canvas.Circle(x, y, r, "fill:black")
        y += 10
    }
    canvas.End()
}
```



```

package main

import (
    "fmt"
    "os"

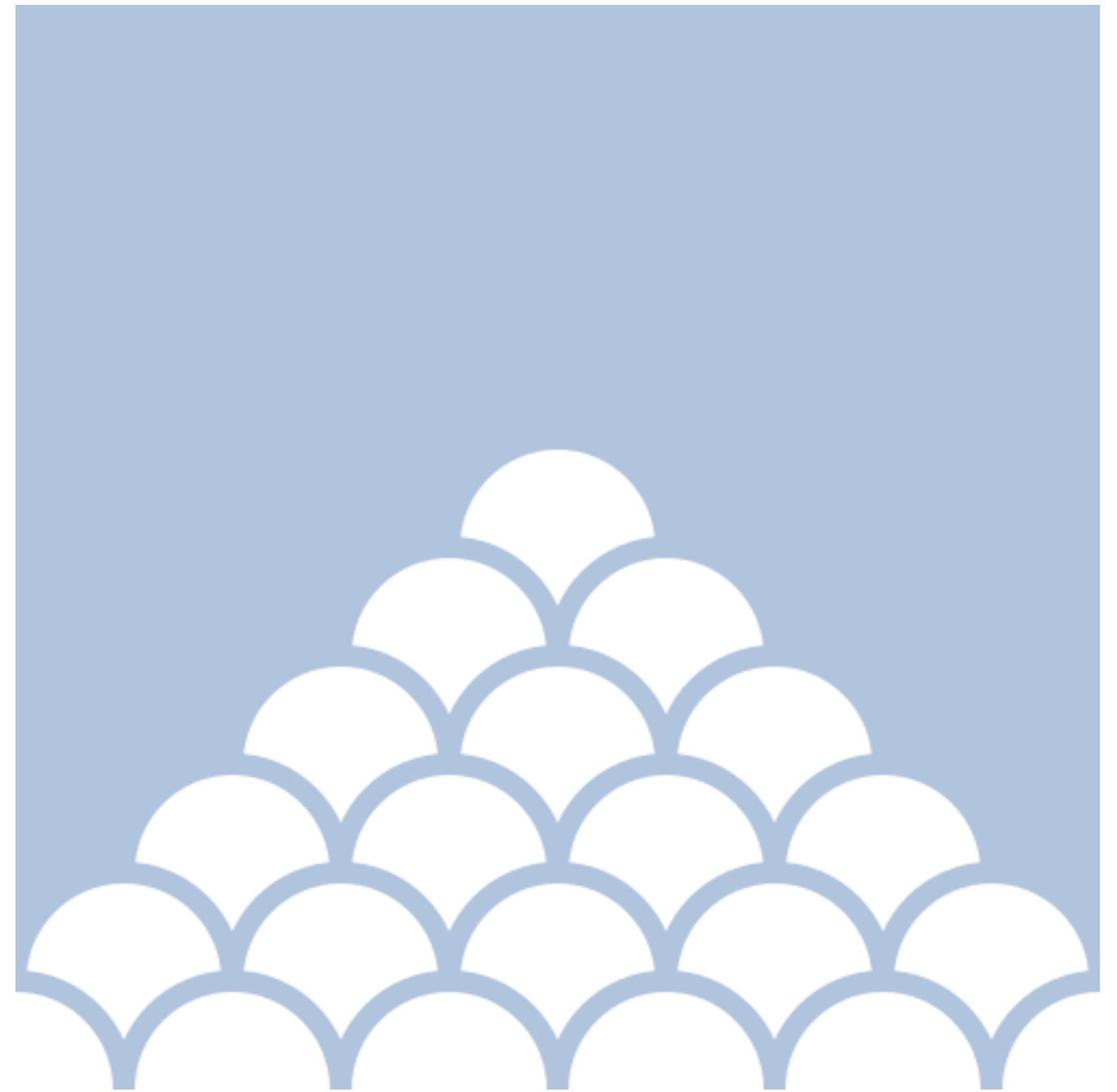
    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    nr := 6
    radius := width / 10
    x := width / 2
    y := height / 2
    fgcolor := "white"
    bgcolor := "lightsteelblue"
    sw := width / 50
    sfmt := "fill:%s;;stroke:%s;stroke-width:%dp"

    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:"+bgcolor)
    canvas.Gstyle(fmt.Sprintf(sfmt, fgcolor, bgcolor, sw))
    for r := 0; r < nr; r++ {
        xc := x
        for c := 0; c < r+1; c++ {
            canvas.Circle(xc, y, radius)
            xc += radius * 2
        }
        x -= radius
        y += radius
    }
    canvas.Gend()
    canvas.End()
}

```



```
package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func cloud(x, y, r int, style string) {
    small := r / 2
    medium := (r * 6) / 10
    canvas.Gstyle(style)
    canvas.Circle(x, y, r)
    canvas.Circle(x+r, y+small, small)
    canvas.Circle(x-r-small, y+small, small)
    canvas.Circle(x-r, y, medium)
    canvas.Rect(x-r-small, y, r*2+small, r)
    canvas.Gend()
}

func main() {
    canvas.Start(width, height)
    cloud(width/2, height/2, 100, canvas.RGB(127, 127, 127))
    canvas.End()
}
```



```

package main

import (
    "math/rand"
    "os"
    "time"

    "github.com/ajstarks/svggo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func cloud(x, y, r int, style string) {
    small := r / 2
    medium := (r * 6) / 10
    canvas.Gstyle(style)
    canvas.Circle(x, y, r)
    canvas.Circle(x+r, y+small, small)
    canvas.Circle(x-r-small, y+small, small)
    canvas.Circle(x-r, y, medium)
    canvas.Rect(x-r-small, y, r*2+small, r)
    canvas.Gend()
}

func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    for i := 0; i < 50; i++ {
        red := rand.Intn(255)
        green := rand.Intn(255)
        blue := rand.Intn(255)
        size := rand.Intn(60)
        x := rand.Intn(width)
        y := rand.Intn(height)
        cloud(x, y, size, canvas.RGB(red, green, blue))
    }
    canvas.End()
}

```




```

package main

import (
    "os"

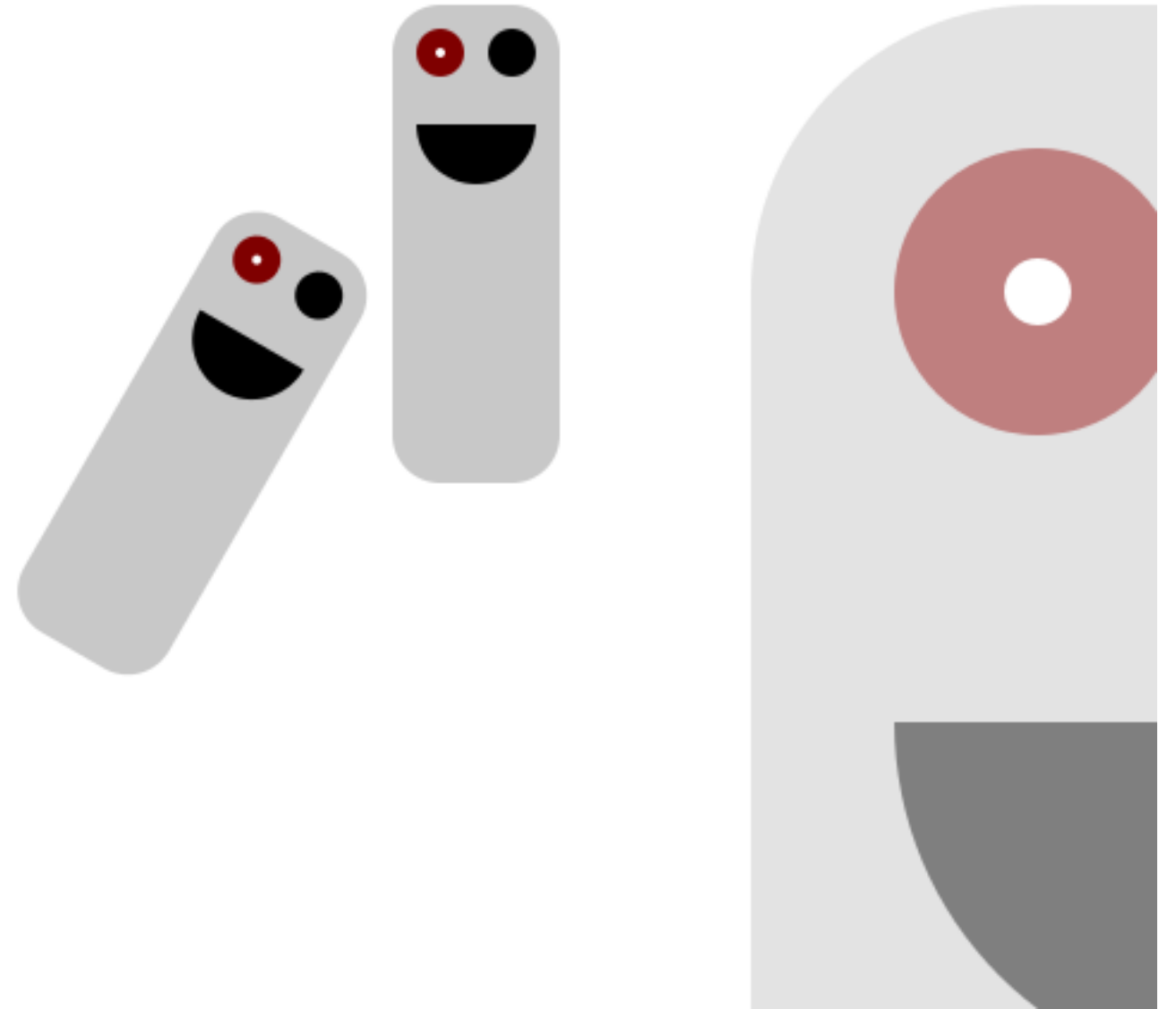
    "github.com/ajstarks/svgo"
)

var canvas = svg.New(os.Stdout)

func smile(x, y, r int) {
    r2 := r * 2
    r3 := r * 3
    r4 := r * 4
    rq := r / 4
    gray := canvas.RGB(200, 200, 200)
    red := canvas.RGB(127, 0, 0)
    canvas.Roundrect(x-r2, y-r2, r*7, r*20, r2, r2, gray)
    canvas.Circle(x, y, r, red)
    canvas.Circle(x, y, rq, "fill:white")
    canvas.Circle(x+r3, y, r)
    canvas.Arc(x-r, y+r3, rq, rq, 0, true, false, x+r4, y+r3)
}

func main() {
    canvas.Start(500, 500)
    canvas.Rect(0, 0, 500, 500, "fill:white")
    smile(200, 100, 10)
    canvas.Gtransform("rotate(30)")
    smile(200, 100, 10)
    canvas.Gend()
    canvas.Gtransform("translate(50,0) scale(2,2)")
    canvas.Gstyle("opacity:0.5")
    smile(200, 100, 30)
    canvas.Gend()
    canvas.Gend()
    canvas.End()
}

```



```

package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

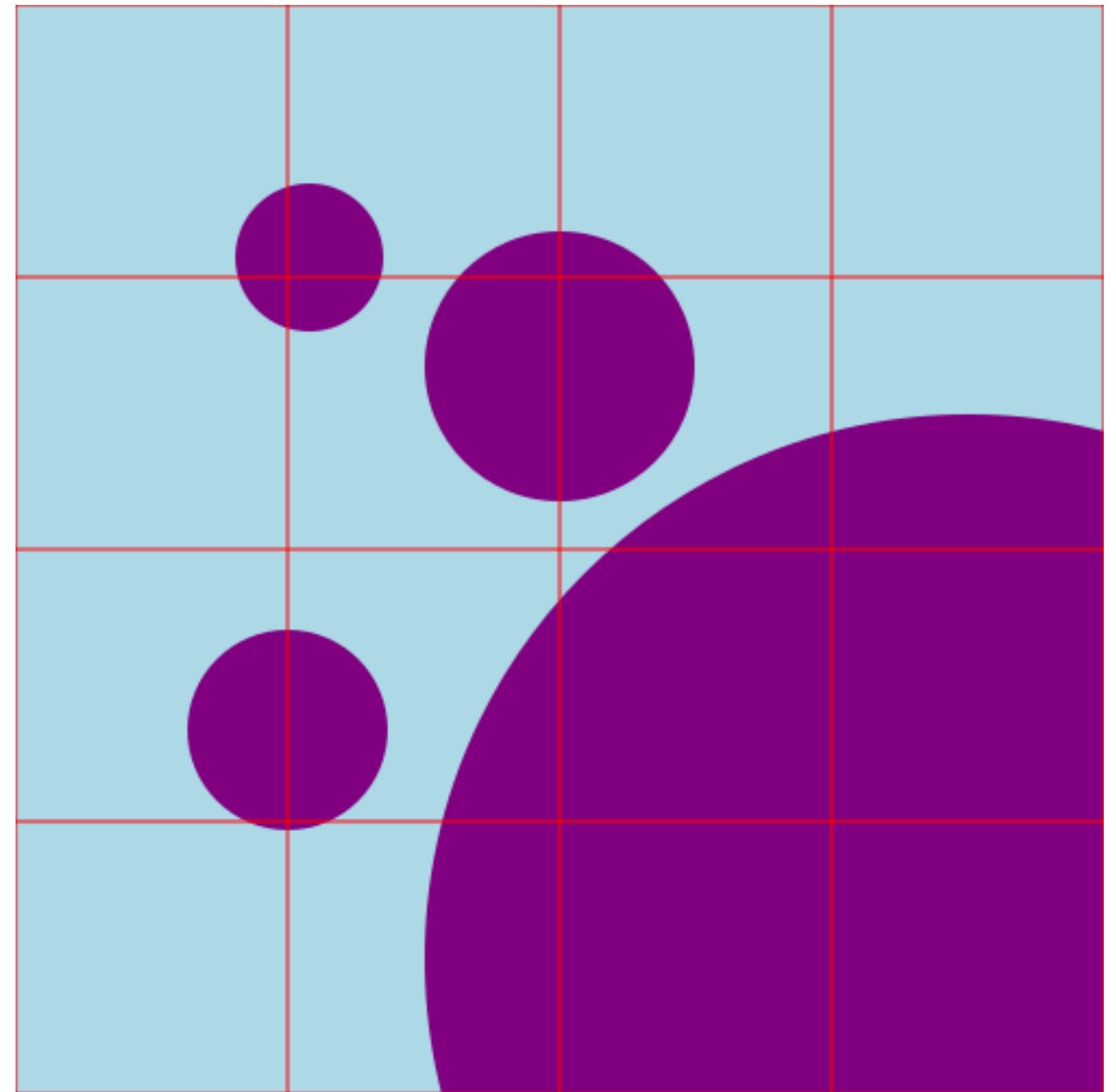
func dot(x, y, d int) {
    canvas.Circle(x, y, d/2, "fill:rgb(128,0,128)")
}

// Composition from "Design for Hackers, pg. 129
func main() {
    d1 := height
    d2 := d1 / 4
    d3 := (d2 * 3) / 4
    d4 := (d3 * 3) / 4

    coffset := height / 8
    hoffset := height / (height / 10)
    voffset := -width / 10

    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:lightblue")
    dot(width-coffset, height-coffset, d1)
    dot(width/2, height/3, d2)
    dot(width/4, height*2/3, d3)
    dot(width/4+hoffset, height/3+voffset, d4)
    canvas.Grid(0, 0, width, height, width/4, "stroke:red")
    canvas.End()
}

```



```

package main

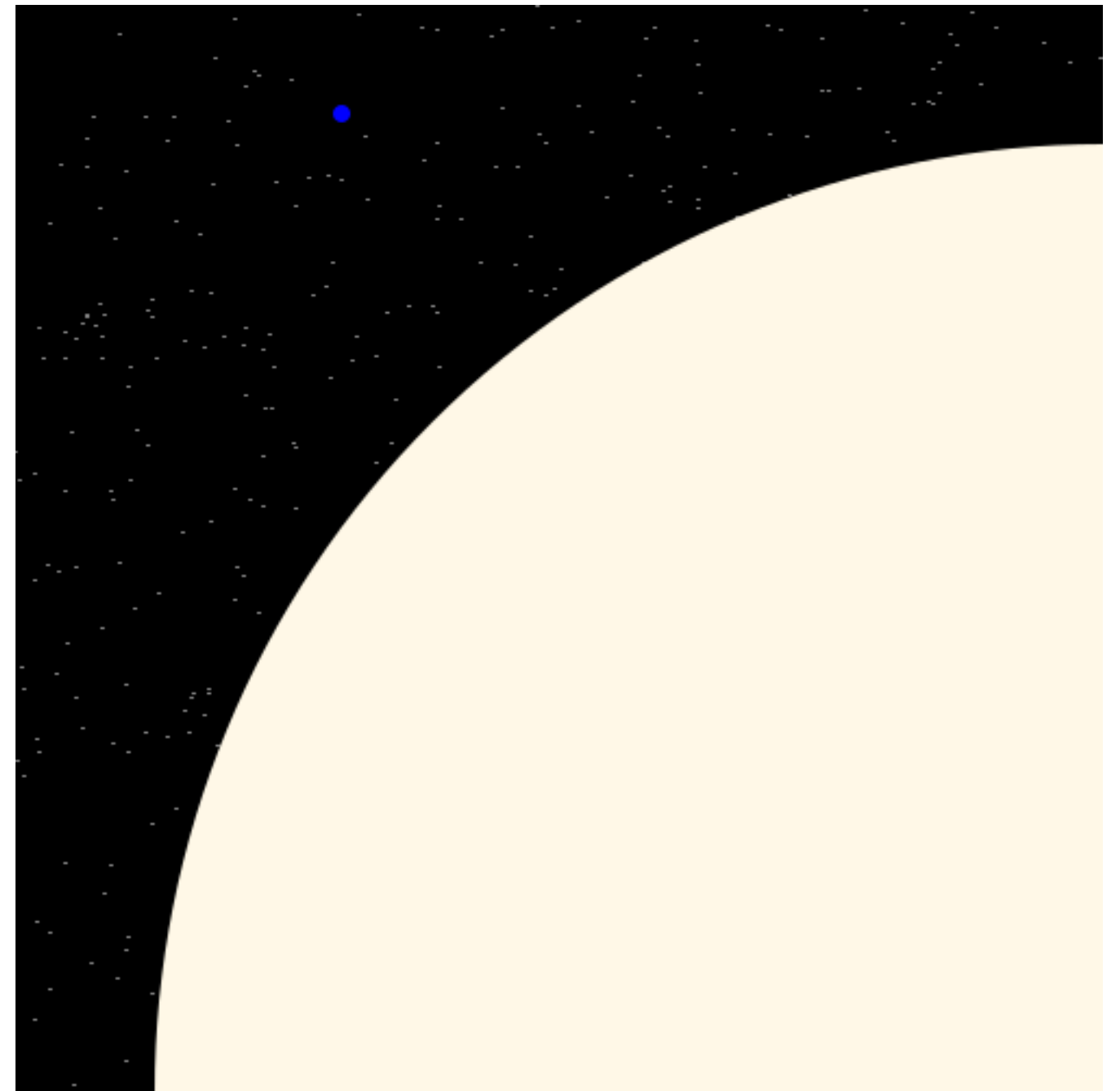
import (
    "math/rand"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:black")
    for i := 0; i < width; i++ {
        x := rand.Intn(width)
        y := rand.Intn(height)
        canvas.Line(x, y, x, y+1, "stroke:white")
    }
    earth := 4
    sun := earth * 109
    canvas.Circle(150, 50, earth, "fill:blue")
    canvas.Circle(width, height, sun, "fill:rgb(255, 248, 231)")
    canvas.End()
}

```



```

package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

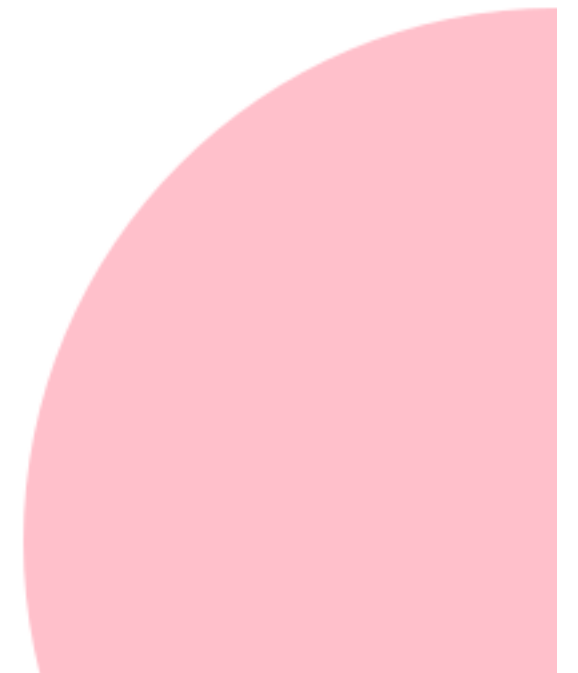
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func male(x, y, w int) {
    canvas.Ellipse(x, y, w, w/2, "fill:blue")
    canvas.Bezier(
        x-(w*8), y,
        x-(w*4), y-(w*4),
        x-(w*4), y+w,
        x-w, y, "stroke:blue;fill:none")
}

func female(x, y, w int) {
    canvas.Circle(x, y, w, "fill:pink")
}

func main() {
    msize := 5
    fsize := msize * 40
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    female(width, height-50, fsize)
    male(100, 200, msize)
    canvas.End()
}

```



```

package main

import (
    "math/rand"
    "os"
    "time"
    "github.com/ajstarks/svgo"
)

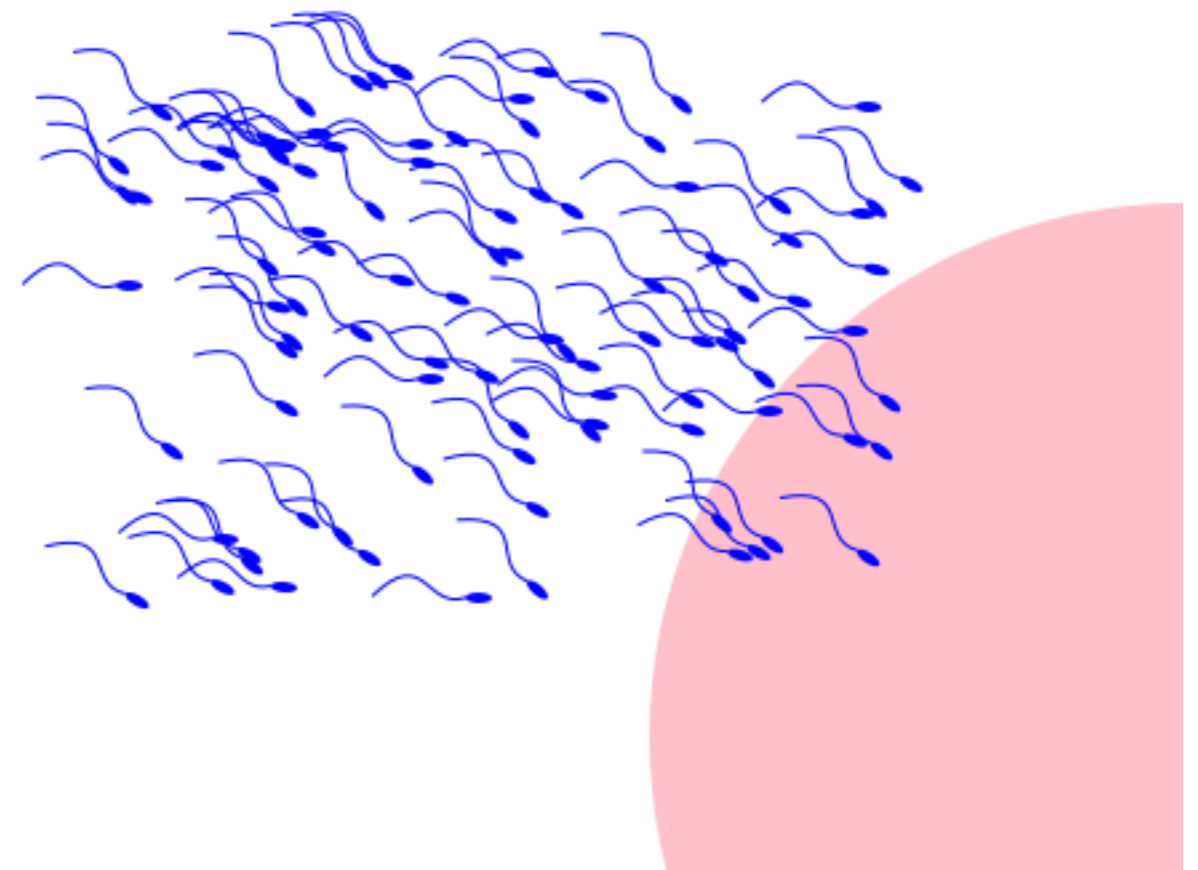
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func male(x, y, w int) {
    canvas.Ellipse(x, y, w, w/2, "fill:blue")
    canvas.Bezier(
        x-(w*8), y,
        x-(w*4), y-(w*4),
        x-(w*4), y+w,
        x-w, y, "stroke:blue;fill:none")
}

func female(x, y, w int) {
    canvas.Circle(x, y, w, "fill:pink")
}

func main() {
    rand.Seed(time.Now().Unix())
    msize := 5
    fsize := msize * 40
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    female(width, height-50, fsize)
    for i := 0; i < 100; i++ {
        canvas.TranslateRotate(rand.Intn(300)+100, rand.Intn(200)+200, rand.Float64()*45)
        male(0, 0, msize)
        canvas.Gend()
    }
    canvas.End()
}

```



```

package main

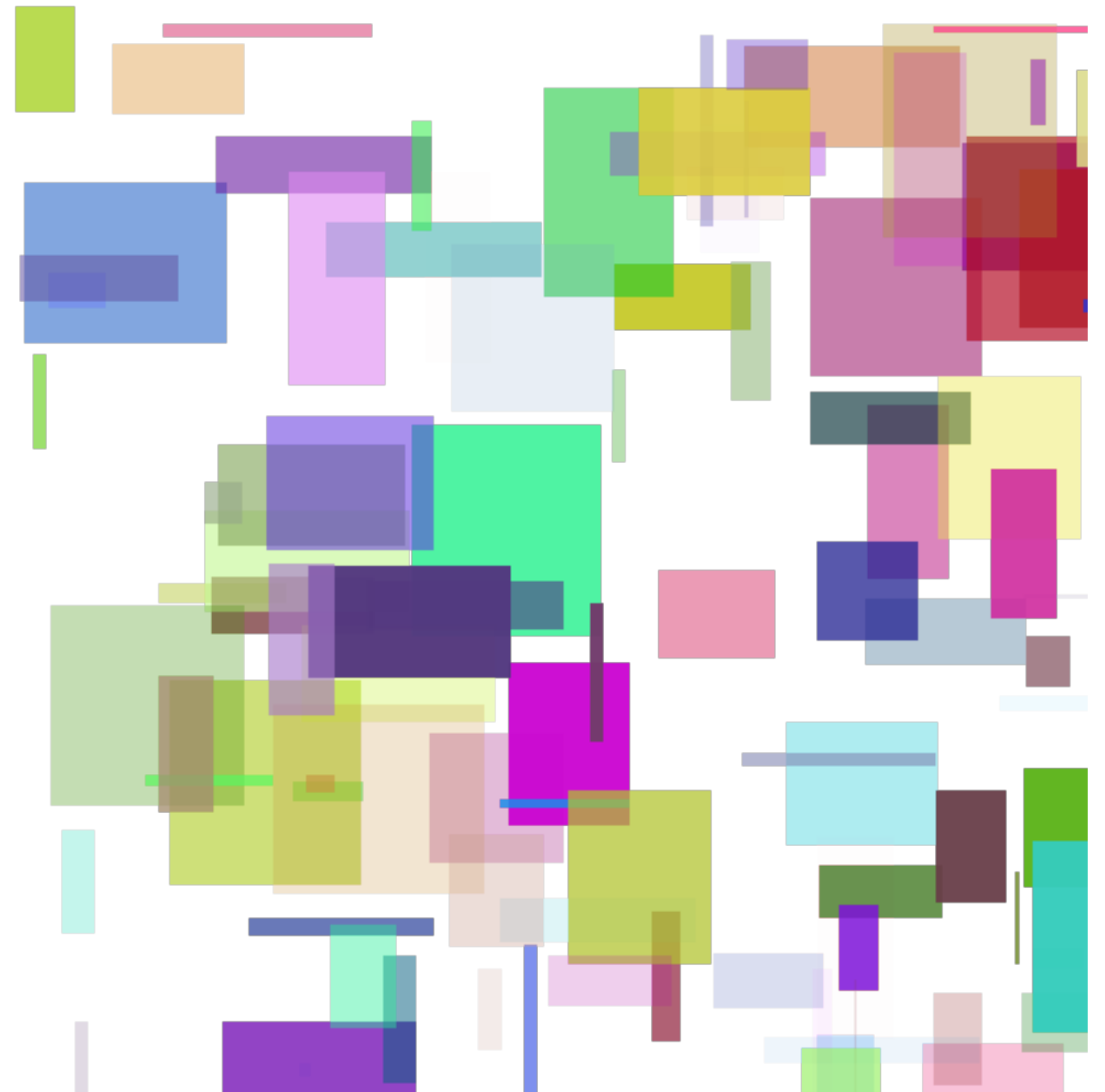
import (
    "math/rand"
    "os"
    "time"

    "github.com/ajstarks/svggo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    canvas.Start(width, height)
    rand.Seed(time.Now().Unix())
    for i := 0; i < 100; i++ {
        fill := canvas.RGBA(
            rand.Intn(255),
            rand.Intn(255),
            rand.Intn(255),
            rand.Float64())
        canvas.Rect(
            rand.Intn(width),
            rand.Intn(height),
            rand.Intn(100),
            rand.Intn(100),
            fill)
    }
    canvas.End()
}

```




```
package main

import (
    "math/rand"
    "os"
    "time"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    canvas.Start(width, height)
    rand.Seed(time.Now().Unix())
    for i := 0; i < 100; i++ {
        fill := canvas.RGBA(
            rand.Intn(255),
            rand.Intn(255),
            rand.Intn(255),
            rand.Float64())
        canvas.Ellipse(
            rand.Intn(width),
            rand.Intn(height),
            rand.Intn(100),
            rand.Intn(100),
            fill)
    }
    canvas.End()
}
```



```

package main

import (
    "fmt"
    "math/rand"
    "os"
    "time"

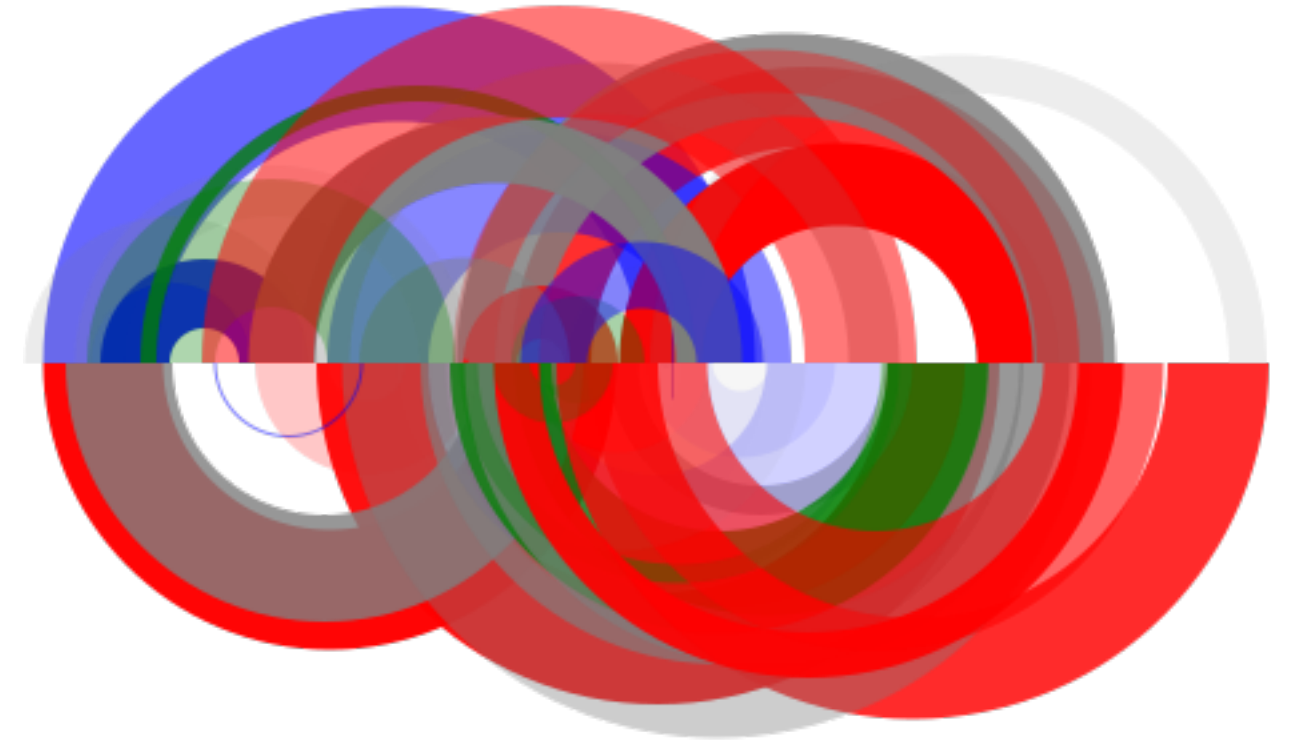
    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func randarc(aw, ah, sw int, f1, f2 bool) {
    colors := []string{"red", "green", "blue", "gray"}
    afmt := "stroke:%s;stroke-opacity:%.2f;stroke-width:%dp;fill:none"
    begin, arclength := rand.Intn(aw), rand.Intn(aw)
    end := begin + arclength
    baseline := ah / 2
    al, cl := arclength/2, len(colors)
    canvas.Arc(begin, baseline, al, al, 0, f1, f2, end, baseline,
        fmt.Sprintf(afmt, colors[rand.Intn(cl)], rand.Float64(), rand.Intn(sw)))
}

func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    aw := width / 2
    maxstroke := height / 10
    for i := 0; i < 20; i++ {
        randarc(aw, height, maxstroke, false, true)
        randarc(aw, height, maxstroke, false, false)
    }
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

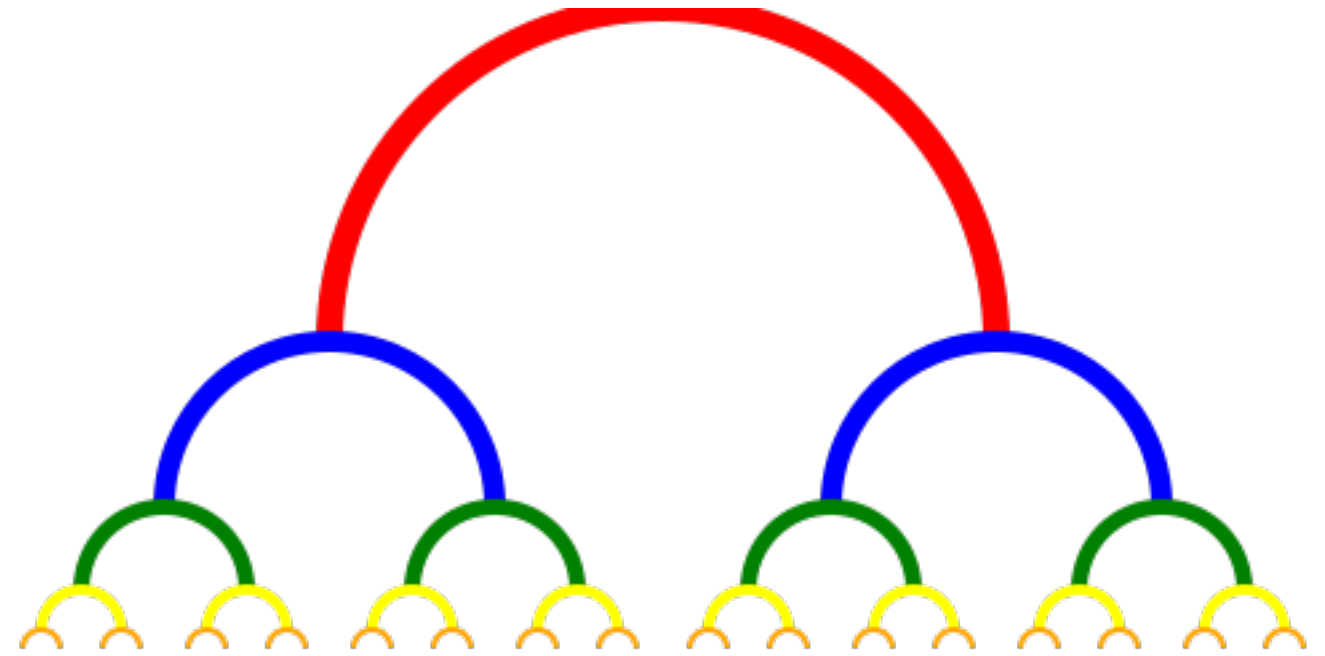
    "github.com/ajstarks/svgo"
)

var (
    canvas    = svg.New(os.Stdout)
    width     = 500
    height    = 500
    maxlevel  = 5
    colors    = []string{"red", "orange", "yellow", "green", "blue"}
)

func branch(x, y, r, level int) {
    astyle := fmt.Sprintf("fill:none;stroke:%s;stroke-width:%dp", colors[level%maxlevel], level*2)
    canvas.Arc(x-r, y, r, r, 0, true, true, x+r, y, astyle)
    if level > 0 {
        branch(x-r, y+r/2, r/2, level-1)
        branch(x+r, y+r/2, r/2, level-1)
    }
}

// Example from "Generative Design", pg 414
func main() {
    canvas.Start(width, height)
    branch(0, 0, width/2, 6)
    canvas.End()
}

```



```

package main

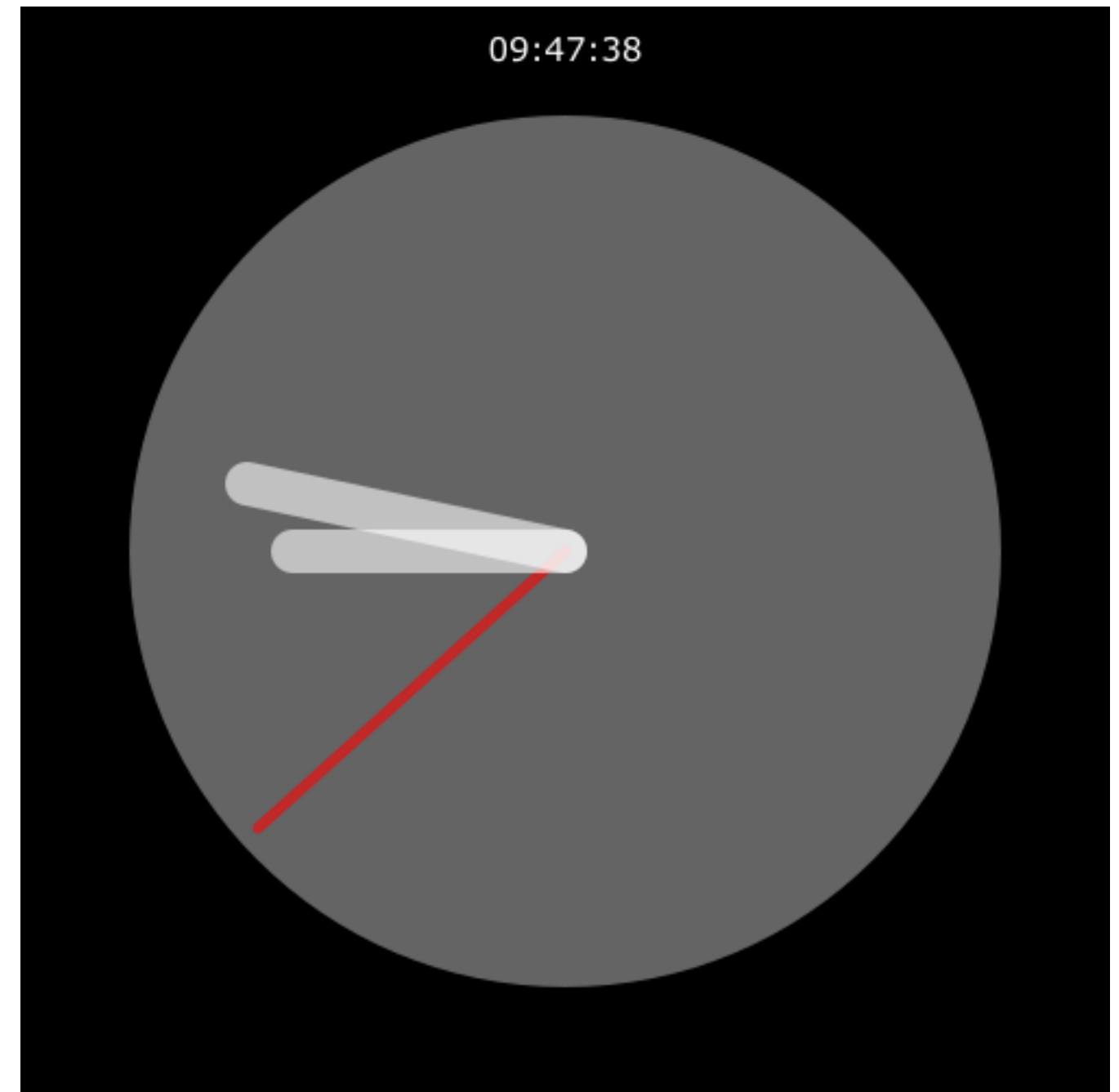
import (
    "fmt"
    "github.com/ajstarks/svgo"
    "math"
    "os"
    "time"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func vmap(value float64, l1 float64, h1 float64,
    l2 float64, h2 float64) float64 {
    return l2 + (h2-l2)*(value-l1)/(h1-l1)
}

// See: Processing (Reas and Fry), pg. 247
func main() {
    w2, h2 := width/2, height/2
    h, m, s := time.Now().Clock()
    sec := vmap(float64(s), 0, 60, 0, math.Pi*2) - math.Pi/2
    min := vmap(float64(m), 0, 60, 0, math.Pi*2) - math.Pi/2
    hour := vmap(float64(h%12), 0, 12, 0, math.Pi*2) - math.Pi/2
    secpct := float64(width) * 0.38
    minpct := float64(width) * 0.30
    hourpct := float64(width) * 0.25
    facepct := (width * 40) / 100
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Text(w2, 25, fmt.Sprintf("%02d:%02d:%02d", h, m, s), "text-anchor:middle;font-size:12pt;fill:white")
    canvas.Circle(w2, h2, facepct, canvas.RGB(100, 100, 100))
    canvas.Gstyle("stroke:white;stroke-width:20;stroke-opacity:0.6;stroke-linecap:round")
    canvas.Line(w2, h2, int(math.Cos(sec)*secpct)+w2, int(math.Sin(sec)*secpct)+h2, "stroke:red;stroke-width:5")
    canvas.Line(w2, h2, int(math.Cos(min)*minpct)+w2, int(math.Sin(min)*minpct)+h2)
    canvas.Line(w2, h2, int(math.Cos(hour)*hourpct)+w2, int(math.Sin(hour)*hourpct)+h2)
    canvas.Gend()
    canvas.End()
}

```



```

package main

import (
    "math"
    "os"

    "github.com/ajstarks/svgo"
)

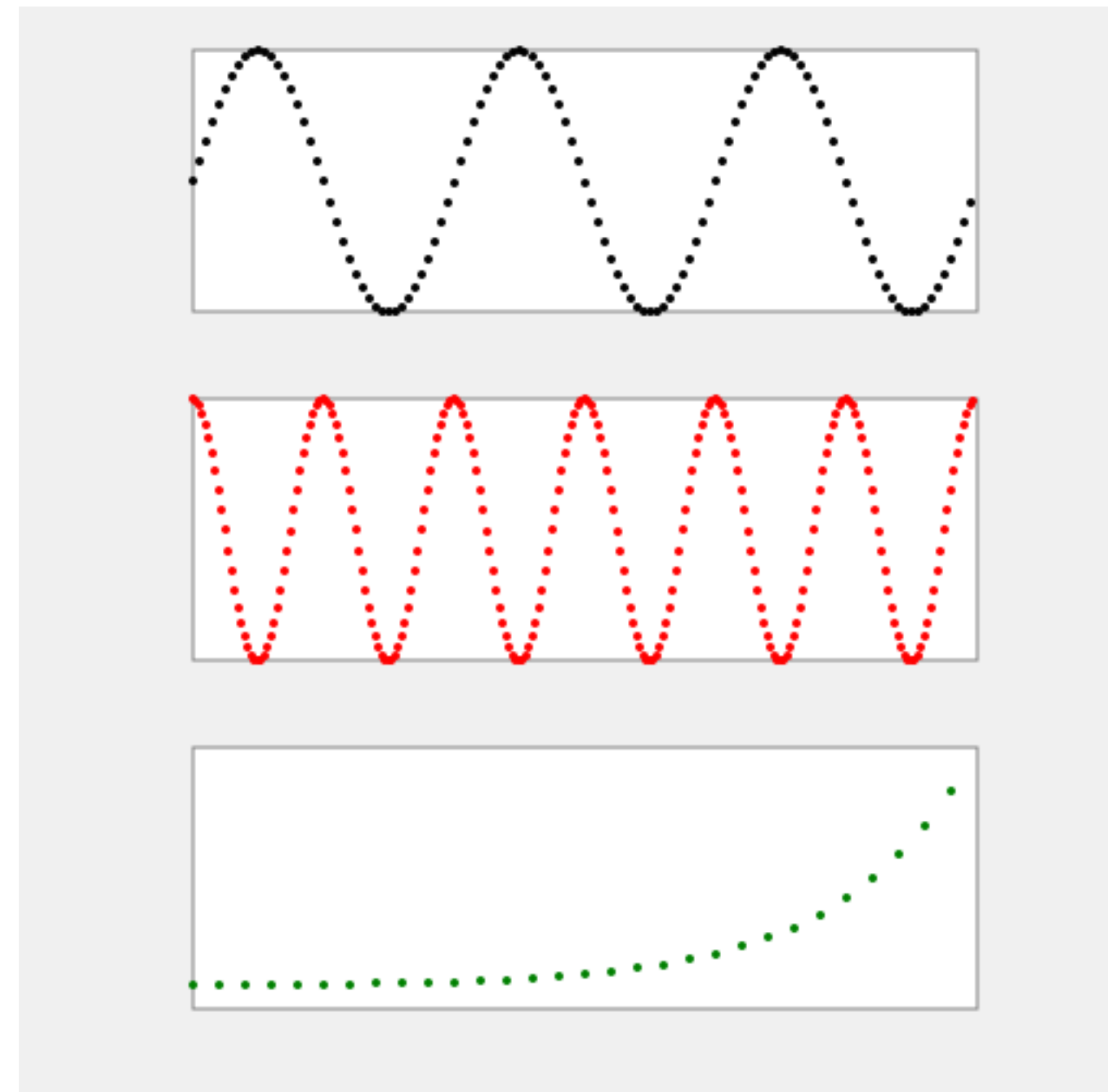
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func vmap(value float64, l1 float64, h1 float64,
    l2 float64, h2 float64) float64 {
    return l2 + (h2-l2)*(value-l1)/(h1-l1)
}

func plotfunc(left, top, w, h int, min, max, fmin, fmax,
    interval float64, f func(float64) float64, style ...string) {
    canvas.Translate(0, top)
    canvas.Rect(left, 0, w, h, "fill:white;stroke:gray")
    for x := min; x < max; x += interval {
        dx := int(vmap(x, min, max, float64(left), float64(w+left)))
        dy := int(vmap(f(x), fmin, fmax, 0, float64(h)))
        canvas.Translate(0, (h - height))
        canvas.Circle(dx, height-dy, 2, style...)
        canvas.Gend()
    }
    canvas.Gend()
}

func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(240,240,240)")
    plotfunc(80, 20, 360, 120, 0, 6*math.Pi, -1, 1, math.Pi/20, math.Sin)
    plotfunc(80, 180, 360, 120, 0, 12*math.Pi, -1, 1, math.Pi/20, math.Cos, "fill:red")
    plotfunc(80, 340, 360, 120, -3, 3, -2, 20, 0.2, math.Exp, "fill:green")
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

type Measure struct {
    name string
    value int
}

func (data *Measure) meter(x, y, w, h int) {
    corner := h / 2
    inset := corner / 2
    canvas.Text(x-10, y+h/2, data.name, "text-anchor:end;baseline-shift:-33%")
    canvas.Roundrect(x, y, w, h, corner, corner, "fill:rgb(240,240,240)")
    canvas.Roundrect(x+corner, y+inset, data.value, h-(inset*2), inset, inset, "fill:darkgray")
    canvas.Circle(x+inset+data.value, y+corner, inset, "fill:red;fill-opacity:0.3")
    canvas.Text(x+inset+data.value+inset+2, y+h/2, fmt.Sprintf("%-3d", data.value),
        "font-size:75%;text-anchor:start;baseline-shift:-33%")
}

func main() {
    items := []Measure{{"Cost", 100}, {"Timing", 250}, {"Sourcing", 50}, {"Technology", 175}}
    x, y, gutter, mh := 100, 50, 20, 50
    canvas.Start(width, height)
    canvas.Gstyle("font-family:sans-serif;font-size:12pt")
    for _, data := range items {
        data.meter(x, y, width-100, mh)
        y += mh + gutter
    }
    canvas.Gend()
    canvas.End()
}

```

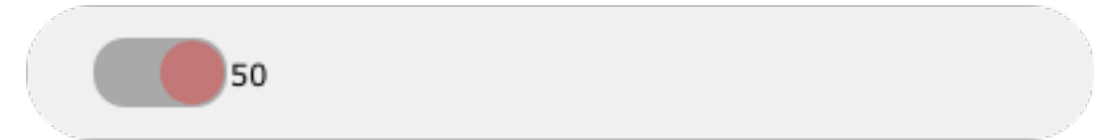
Cost



Timing



Sourcing



Technology




```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

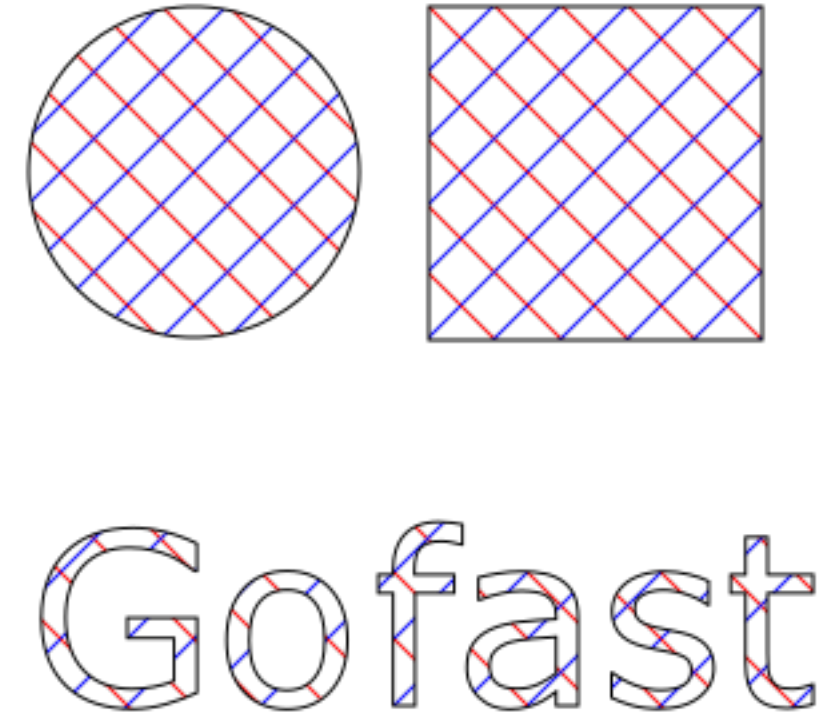
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    pct := 5
    pw, ph := (width*pct)/100, (height*pct)/100
    canvas.Start(width, height)

    canvas.Def()
    canvas.Pattern("hatch", 0, 0, pw, ph, "user")
    canvas.Gstyle("fill:none;stroke-width:1")
    canvas.Path(fmt.Sprintf("M0,0 l%d,%d", pw, ph), "stroke:red")
    canvas.Path(fmt.Sprintf("M%d,0 l-%d,%d", pw, pw, ph), "stroke:blue")
    canvas.Gend()
    canvas.PatternEnd()
    canvas.DefEnd()

    x1 := width / 2
    x2 := (width * 4) / 5
    canvas.Gstyle("stroke:black; font-size: 72pt; text-anchor:middle; fill:url(#hatch)")
    canvas.Circle(x1, height/2, height/8)
    canvas.CenterRect(x2, height/2, height/4, height/4)
    canvas.Text(x1, height-50, "Go")
    canvas.Text(x2, height-50, "fast")
    canvas.Gend()
    canvas.End()
}

```



```

package main

import (
    "os"

    "github.com/ajstarks/svggo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {

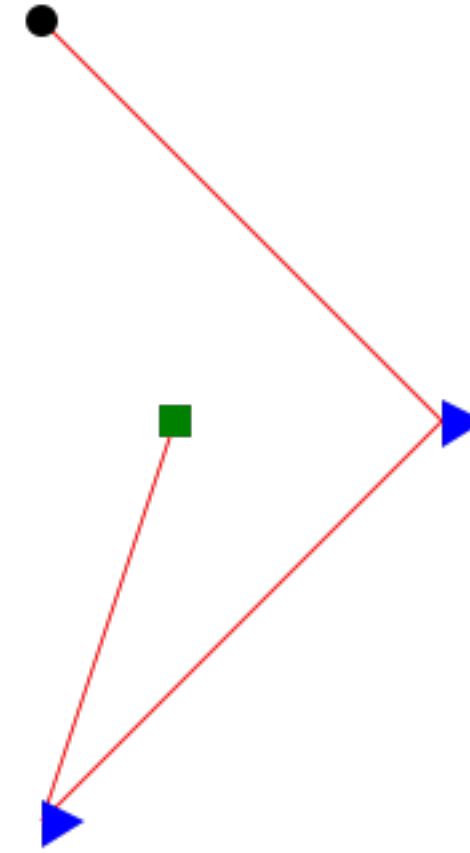
    canvas.Start(width, height)
    canvas.Def()
    canvas.Marker("dot", 10, 10, 16, 16)
    canvas.Circle(10, 10, 6, "fill:black")
    canvas.MarkerEnd()

    canvas.Marker("box", 10, 10, 16, 16)
    canvas.CenterRect(10, 10, 12, 12, "fill:green")
    canvas.MarkerEnd()

    canvas.Marker("arrow", 4, 12, 26, 26)
    canvas.Path("M4,4 L4,22 L20,12 L4,4", "fill:blue")
    canvas.MarkerEnd()
    canvas.DefEnd()

    x := []int{100, 250, 100, 150}
    y := []int{100, 250, 400, 250}
    canvas.Polyline(x, y,
        `fill="none"`,
        `stroke="red"`,
        `marker-start="url(#dot)"`,
        `marker-mid="url(#arrow)"`,
        `marker-end="url(#box)"`)
    canvas.End()
}

```



```

package main

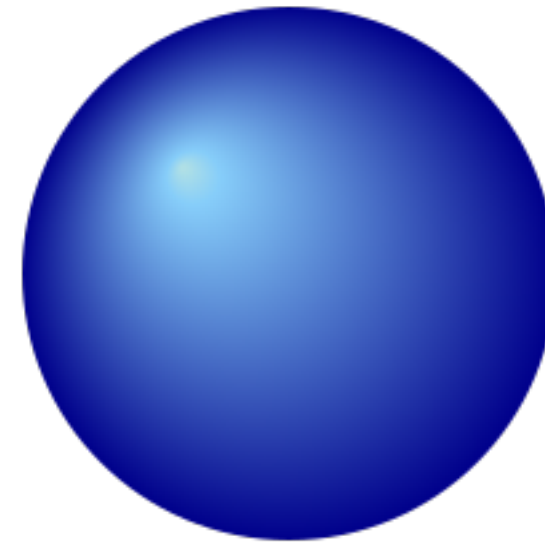
import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    rg := []svg.Offcolor{
        {1, "powderblue", 1},
        {10, "lightskyblue", 1},
        {100, "darkblue", 1},
    }
    lg := []svg.Offcolor{
        {10, "black", 1},
        {20, "gray", 1},
        {100, "lightgray", 1},
    }
    canvas.Start(width, height)
    canvas.Def()
    canvas.RadialGradient("rg", 50, 50, 50, 30, 30, rg)
    canvas.LinearGradient("lg", 0, 100, 0, 0, lg)
    canvas.DefEnd()
    canvas.Circle(width/2, height-300, 100, "fill:url(#rg)")
    canvas.Ellipse(width-110, height-50, 100, 20, "fill:url(#lg)")
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    fonts := []string{
        "Helvetica", "Times", "Courier",
        "sans-serif", "serif", "monospace",
    }
    sizes := []int{10, 12, 16, 21, 24, 36, 48}
    largest := sizes[len(sizes)-1]
    gutter := largest + (largest / 3)
    margin := gutter * 2
    y := 100

    canvas.Start(width, height)
    for _, f := range fonts {
        x := margin
        canvas.Gstyle("font-family:" + f)
        canvas.Text(x-10, y, f, "text-anchor:end")
        for _, s := range sizes {
            canvas.Text(x, y, fmt.Sprintf("%d", s), fmt.Sprintf("font-size:%dpt", s))
            x += s * 2
        }
        canvas.Gend()
        y += gutter
    }
    canvas.End()
}

```

Helvetica 10 12 16 21 24 36 48

Times 10 12 16 21 24 36 48

Courier 10 12 16 21 24 36 48

sans-serif 10 12 16 21 24 36 48

serif 10 12 16 21 24 36 48

monospace 10 12 16 21 24 36 48

```
package main
```

```
import (
    "fmt"
    "os"
```

```
    "github.com/ajstarks/svgo"
)
```

```
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)
```

```
func main() {
    top, left, fontsize := 50, 100, 16
    xoffset, yoffset := 25, 25
    rows, cols := 16, 16
    glyph := 0x2600
    font := "Symbola"
    stylefmt := "font-family:%s;font-size:%dpix;text-anchor:middle"
    canvas.Start(width, height)
    canvas.Gstyle(fmt.Sprintf(stylefmt, font, fontsize))
```

```

    x, y := left, top
    for r := 0; r < rows; r++ {
        canvas.Text(x-yoffset, y, fmt.Sprintf("%X", glyph), "text-anchor:end;fill:gray")
        for c := 0; c < cols; c++ {
            if r == 0 {
                canvas.Text(x, y-yoffset, fmt.Sprintf("%02X", c), "fill:gray")
            }
            canvas.Text(x, y, string(glyph))
            glyph++
            x += xoffset
        }
        x = left
        y += yoffset
    }
    canvas.Gend()
    canvas.End()
}
```

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
2600	☼	☁	☂	☃	☄	★	☆	↘	☒	☉	♊	♋	♌	♍	☎	☎
2610	☐	☑	☒	✕	☂	☕	☒	♣	♣	♣	♣	♣	♣	♣	♣	♣
2620	☠	☢	☣	☤	☥	☦	☧	☨	☩	☪	☫	☬	☭	☮	☯	☰
2630	☷	☸	☹	☺	☻	☼	☽	☾	☿	♈	♉	♊	♋	♌	♍	♎
2640	♏	♐	♑	♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒
2650	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
2660	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊	♋	♌	♍	♎
2670	♏	♐	♑	♒	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒
2680	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
2690	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
26A0	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
26B0	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
26C0	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
26D0	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
26E0	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊
26F0	♓	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♈	♉	♊

```

package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    lorem := []string{
        "Lorem ipsum dolor sit amet, consectetur adipiscing",
        "elit, sed do eiusmod tempor incididunt ut labore et",
        "dolore magna aliqua. Ut enim ad minim veniam, quis",
        "nostrud exercitation ullamco laboris nisi ut aliquip",
        "ex ea commodo consequat. Duis aute irure dolor in",
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        "fugiat nulla pariatur. Excepteur sint occaecat cupidatat",
        "non proident, sunt in culpa qui officia deserunt mollit",
    }
    fontlist := []string{"Georgia", "Helvetica", "Gill Sans"}
    size, leading := 14, 16
    x, y := 50, 20
    tsize := len(lorem)*leading + size*3
    canvas.Start(width, height)
    for _, f := range fontlist {
        canvas.Gstyle("font-family:" + f)
        canvas.Textlines(x, y, lorem, size, leading, "black", "start")
        canvas.Text(x, size+y+tsize/2, f, "fill-opacity:0.3;fill:red;font-size:750%")
        canvas.Gend()
        y += tsize
    }
    canvas.End()
}

```

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```

package main

import (
    "os"

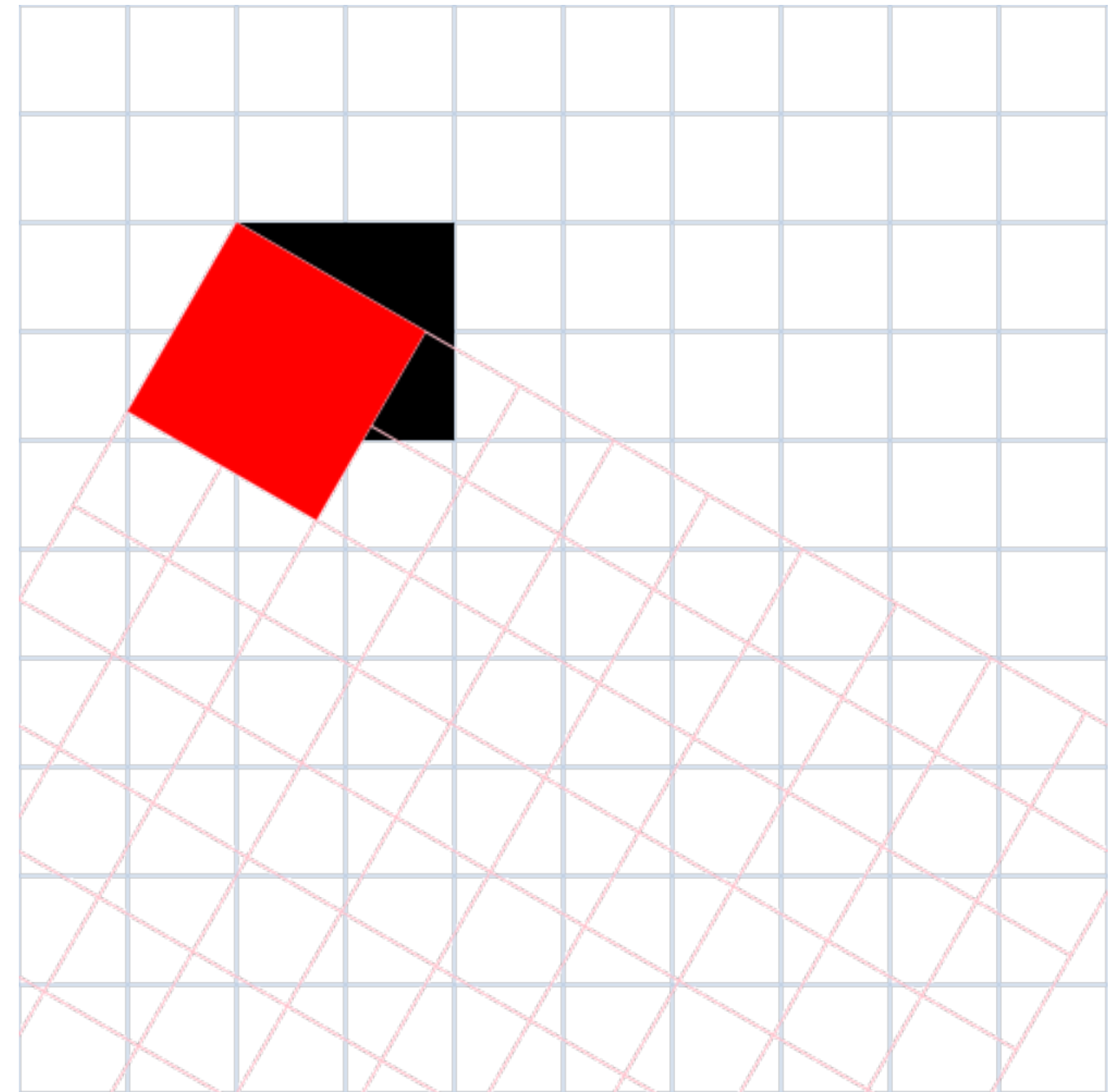
    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func tro() {
    canvas.Rect(100, 100, 100, 100)
    canvas.TranslateRotate(100, 100, 30)
    canvas.Grid(0, 0, width, height, 50, "stroke:pink")
    canvas.Rect(0, 0, 100, 100, "fill:red")
    canvas.Gend()
}

func main() {
    canvas.Start(width, height)
    canvas.Grid(0, 0, width, height, 50, "stroke:lightsteelblue")
    tro()
    canvas.End()
}

```



```

package main

import (
    "os"

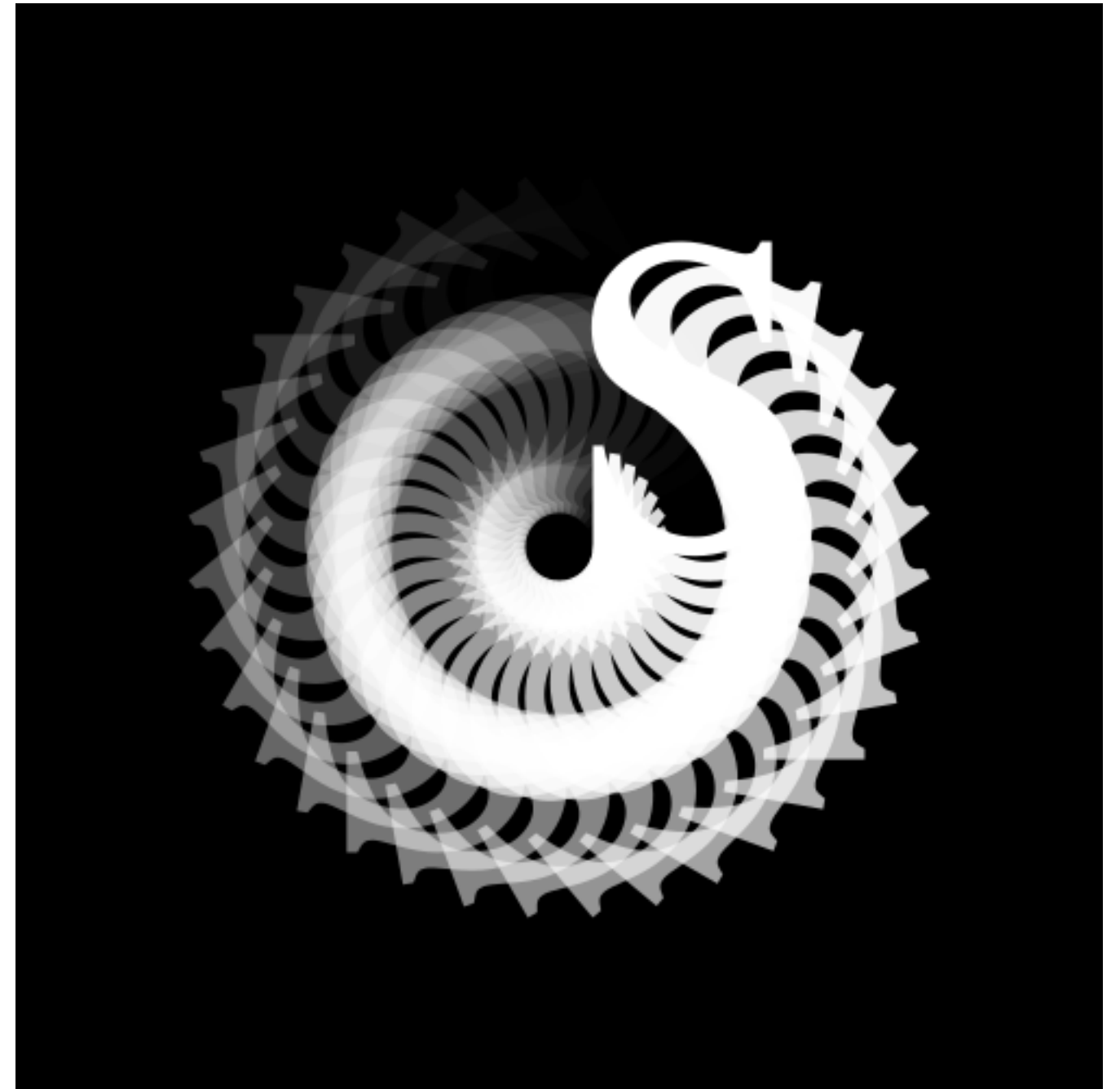
    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    a := 1.0
    ai := 0.03
    ti := 10.0

    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("font-family:serif;font-size:244pt")
    for t := 0.0; t <= 360.0; t += ti {
        canvas.TranslateRotate(width/2, height/2, t)
        canvas.Text(0, 0, "s", canvas.RGBA(255, 255, 255, a))
        canvas.Gend()
        a -= ai
    }
    canvas.Gend()
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

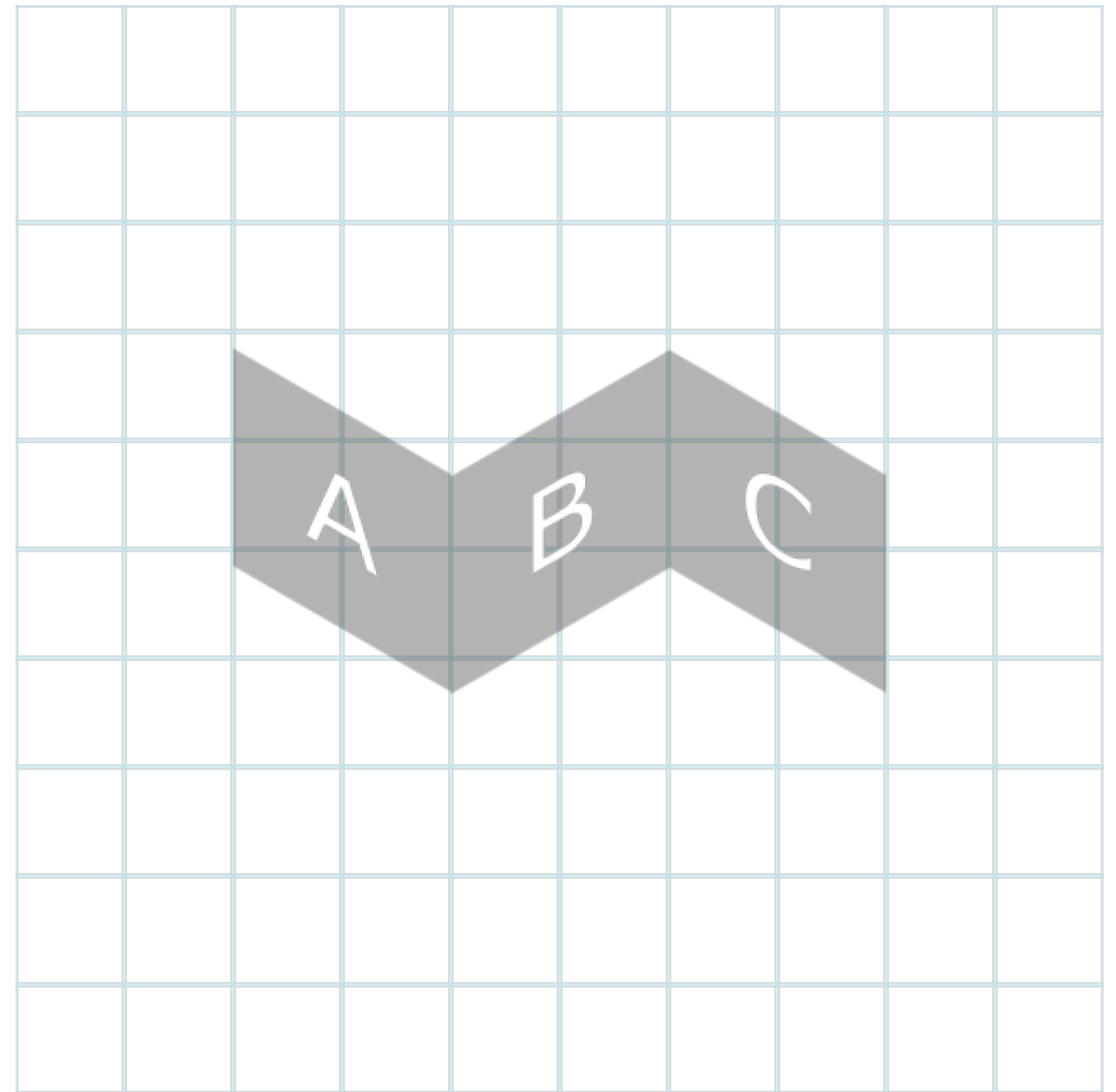
    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func sky(x, y, w, h, a int, s string) {
    tfmt := "font-family:sans-serif;font-size:%dp; text-anchor:middle"
    canvas.Gstyle(fmt.Sprintf(tfmt, w/2))
    canvas.SkewXY(0, float64(a))
    canvas.Rect(x, y, w, h, "fill:black;fill-opacity:0.3")
    canvas.Text(x+w/2, y+h/2, s, "fill:white;baseline-shift:-33%")
    canvas.Gend()
    canvas.Gend()
}

func main() {
    canvas.Start(width, height)
    canvas.Grid(0, 0, width, height, 50, "stroke:lightblue")
    sky(100, 100, 100, 100, 30, "A")
    sky(200, 332, 100, 100, -30, "B")
    sky(300, -15, 100, 100, 30, "C")
    canvas.End()
}

```



```
package main

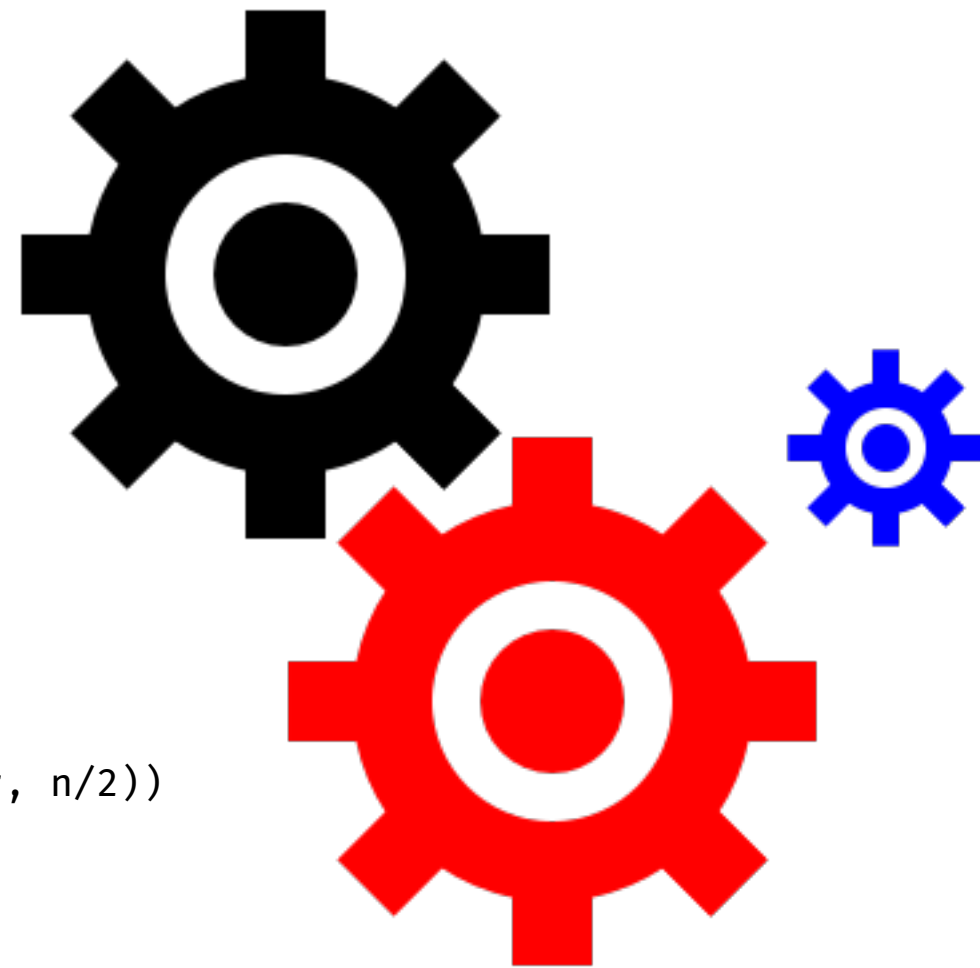
import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func gear(x, y, w, h, n, l, m int, color string) {
    canvas.Gstyle(fmt.Sprintf("fill:none;stroke:%s;stroke-width:%d", color, n/2))
    canvas.Circle(x+w/2, y+h/2, n)
    canvas.Circle(x+w/2, y+h/2, n/5, "fill:"+color)
    ai := 360 / float64(m)
    for a := 0.0; a <= 360.0; a += ai {
        canvas.TranslateRotate(x+w/2, y+h/2, a)
        canvas.Line(n-l, n-l, n+l, n+l)
        canvas.Gend()
    }
    canvas.Gend()
}

func main() {
    canvas.Start(width, height)
    gear(0, 0, 250, 250, 60, 10, 8, "black")
    gear(100, 160, 250, 250, 60, 10, 8, "red")
    gear(300, 140, 100, 100, 20, 6, 8, "blue")
    canvas.End()
}
```



```

package main

import (
    "math"
    "os"

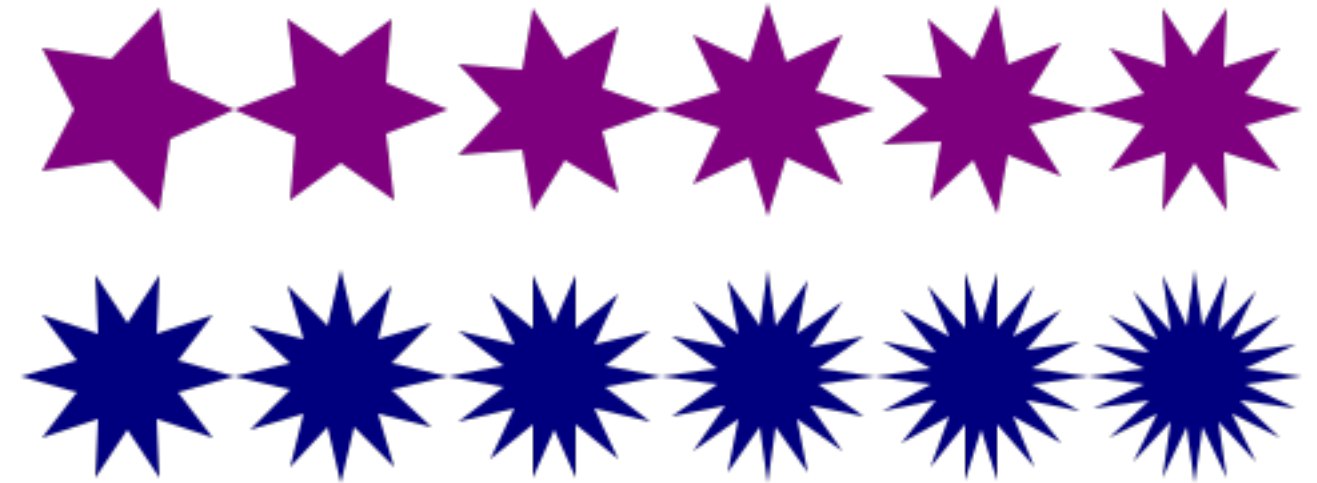
    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

// See: http://vormplus.be/blog/article/processing-month-day-4-stars
func star(xp, yp, n int, inner, outer float64, style string) {
    xv, yv := make([]int, n*2), make([]int, n*2)
    angle := math.Pi / float64(n)
    for i := 0; i < n*2; i++ {
        fi := float64(i)
        if i%2 == 0 {
            xv[i] = int(math.Cos(angle*fi) * outer)
            yv[i] = int(math.Sin(angle*fi) * outer)
        } else {
            xv[i] = int(math.Cos(angle*fi) * inner)
            yv[i] = int(math.Sin(angle*fi) * inner)
        }
    }
    canvas.Translate(xp, yp)
    canvas.Polygon(xv, yv, style)
    canvas.Gend()
}

func main() {
    canvas.Start(width, height)
    for x, i := 50, 5; i <= 10; i++ {
        star(x, 200, i, 20, 40, canvas.RGB(127, 0, 127))
        star(x, 300, i*2, 20, 40, canvas.RGB(0, 0, 127))
        x += 80
    }
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

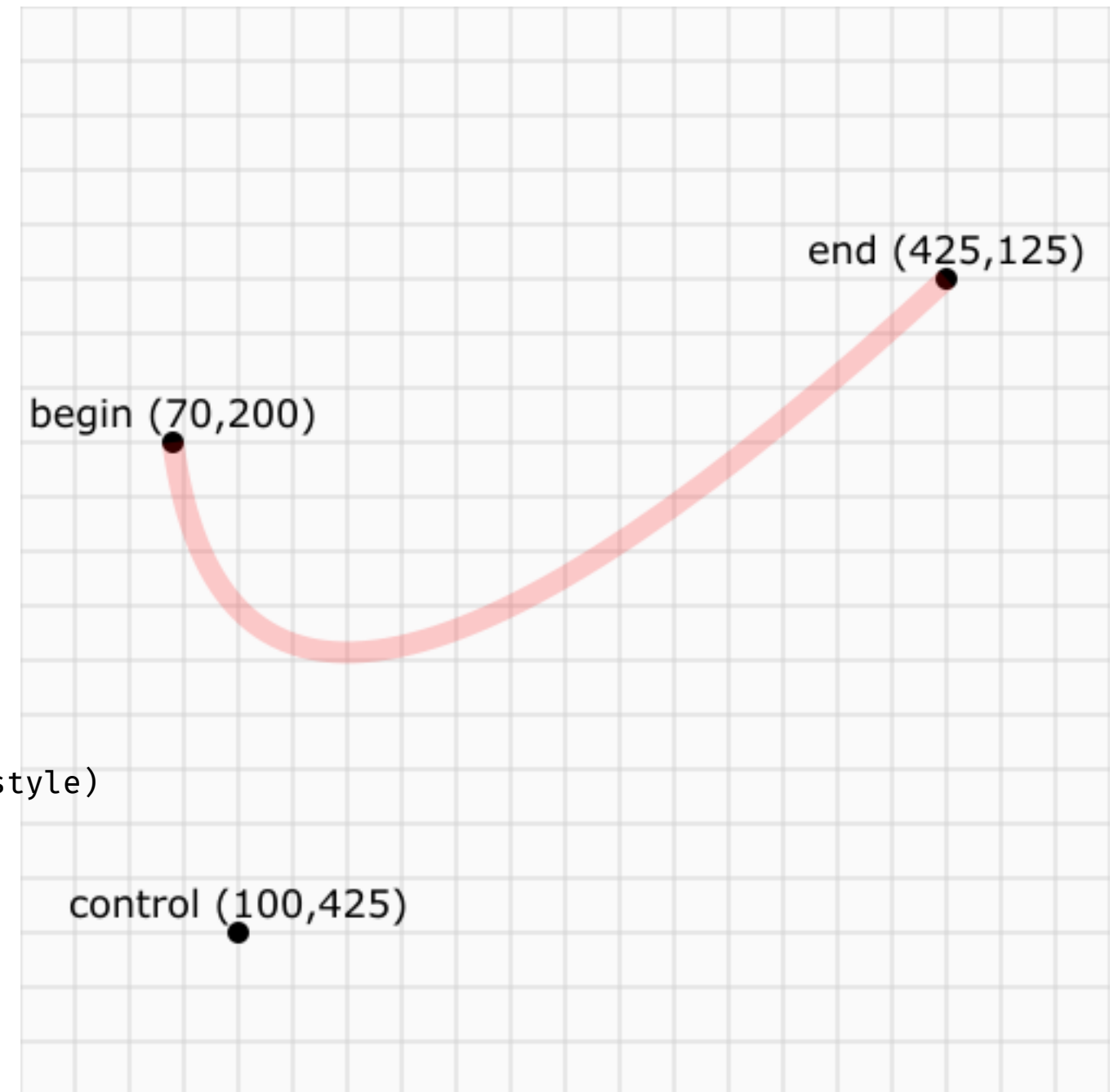
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func coord(x, y, size int, label string) {
    tstyle := "text-anchor:middle;font-size:14pt"
    offset := size + (size / 2)
    canvas.Text(x, y-offset, fmt.Sprintf("%s (%d,%d)", label, x, y), tstyle)
    canvas.Circle(x, y, size)
}

func showcurve(bx, by, cx, cy, ex, ey int) {
    dotsize := 5
    sw := dotsize * 2
    cfmt := "stroke:%s;stroke-width:%d;fill:none;stroke-opacity:%.2f"
    style := fmt.Sprintf(cfmt, "red", sw, 0.2)
    coord(bx, by, dotsize, "begin")
    coord(ex, ey, dotsize, "end")
    coord(cx, cy, dotsize, "control")
    canvas.Qbez(bx, by, cx, cy, ex, ey, style)
}

func main() {
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:rgb(250,250,250)")
    canvas.Grid(0, 0, width, height, 25, "stroke:lightgray")
    showcurve(70, 200, 100, 425, 425, 125)
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

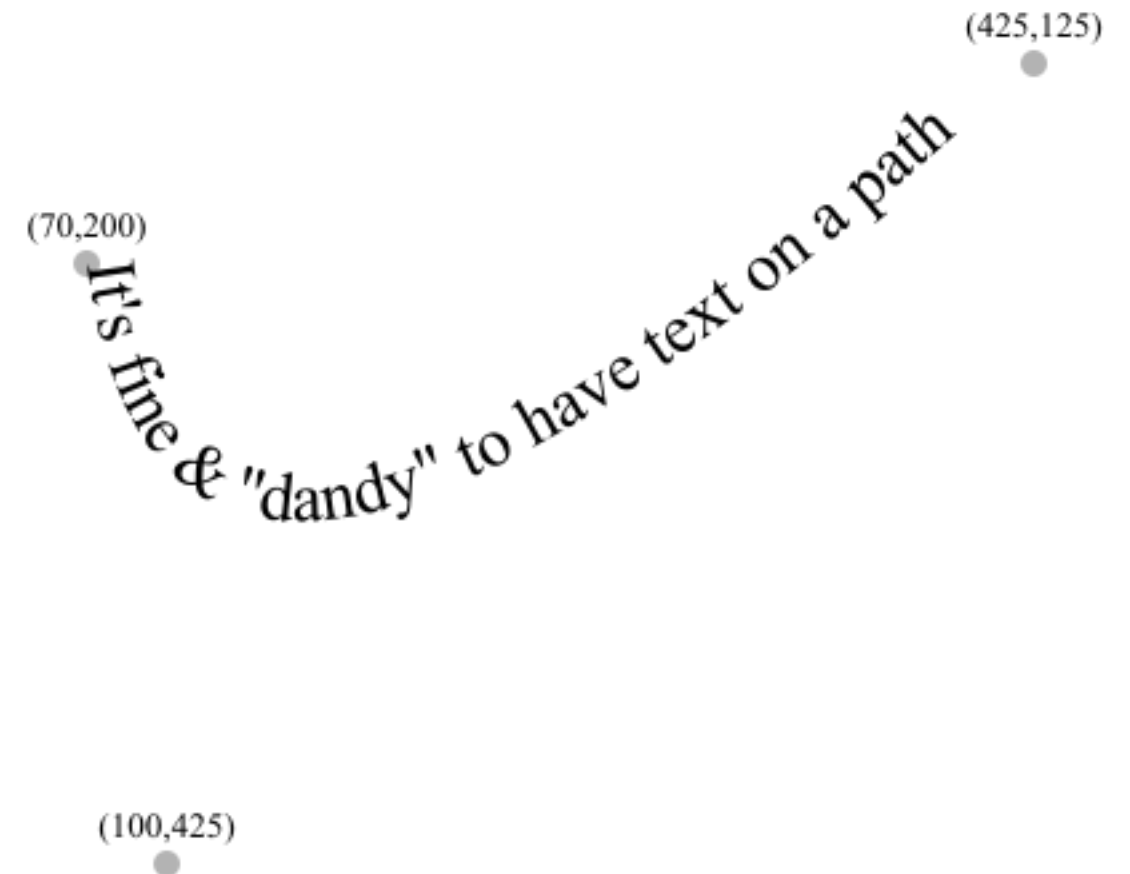
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func coord(x, y, size int) {
    offset := size * 2
    canvas.Text(x, y-offset, fmt.Sprintf("(%d,%d)", x, y),
        "font-size:50%;text-anchor:middle")
    canvas.Circle(x, y, size, "fill-opacity:0.3")
}

func makepath(x, y, sx, sy, cx, cy, ex, ey int, id, text string) {
    canvas.Def()
    canvas.Qbez(sx, sy, cx, cy, ex, ey, `id="`+id+`"`)
    canvas.DefEnd()
    canvas.Translate(x, y)
    canvas.Textpath(text, "#"+id)
    coord(sx, sy, 5)
    coord(ex, ey, 5)
    coord(cx, cy, 5)
    canvas.Gend()
}

func main() {
    message := `It's fine & "dandy" to have text on a path`
    canvas.Start(width, height)
    canvas.Gstyle("font-family:serif;font-size:21pt")
    makepath(0, 0, 70, 200, 100, 425, 425, 125, "tpath", message)
    canvas.Gend()
    canvas.End()
}

```



```
package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func main() {
    canvas.Start(width, height)
    opacity := 1.0
    for x := 0; x < width; x += 100 {
        canvas.Image(x, 100, 100, 124, "gopher.jpg", fmt.Sprintf("opacity:%.2f", opacity))
        opacity -= 0.15
    }
    canvas.End()
}
```




```

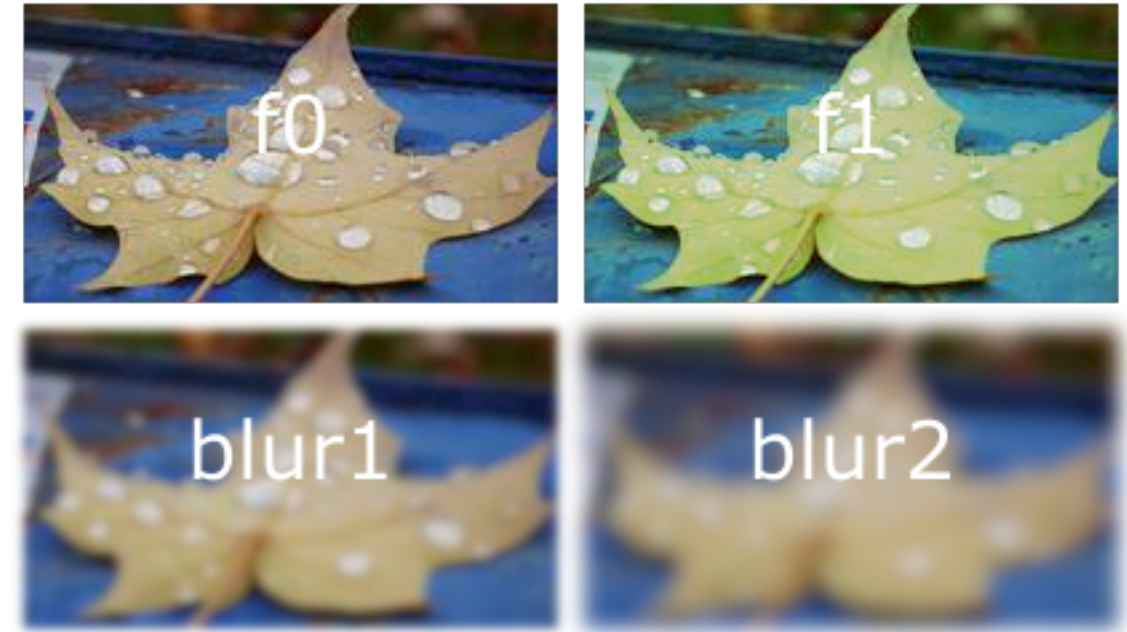
package main

import (
    "fmt"
    "os"
    "github.com/ajstarks/svggo"
)

var canvas = svg.New(os.Stdout)

func main() {
    gutter, nc := 10, 2
    iw, ih := 200, 112
    pw, ph := (iw*nc)+gutter*(nc+1), (ih*3)+gutter*4
    canvas.Start(pw, ph)
    canvas.Def(); canvas.Filter("f0"); canvas.Saturate(1.0); canvas.Fend()
    canvas.Filter("f1")
    canvas.FeComponentTransfer()
    canvas.FeFuncTable("G", []float64{0, 0.5, 0.6, 0.85, 1.0})
    canvas.FeCompEnd()
    canvas.Fend()
    for i, b := 0, 0.0; b < 20.0; b += 2.0 {
        canvas.Filter(fmt.Sprintf("blur%d", i))
        canvas.Blur(b)
        canvas.Fend()
        i++
    }
    canvas.DefEnd()
    x, y := gutter, gutter
    canvas.Gstyle("text-anchor:middle;fill:white;font-family:sans-serif;font-size:24pt")
    for i, f := range []string{"f0", "f1", "blur1", "blur2"} {
        if i != 0 && i%nc == 0 {
            x = gutter
            y += ih + gutter
        }
        canvas.Image(x, y, iw, ih, "maple.jpg", "filter:url(#"+f+"")")
        canvas.Text(x+iw/2, y+ih/2, f)
        x += iw + gutter
    }
    canvas.Gend()
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

func tf(x, y int, s string, size float64) {
    canvas.Text(x, y, s,fmt.Sprintf("font-size:%gpt",size))
}

func main() {
    x, y := width/2, 35
    canvas.Start(width, height)
    canvas.Rect(0,0,width,height, canvas.RGB(72, 45, 77))
    canvas.Gstyle("font-family:Roboto;fill:white;text-anchor:middle")
    tf(x, y, "A MAN WHO WORKS WITH HIS HANDS IS A LABORER",14); y += 70
    tf(x, y, "A MAN WHO", 60); y += 105
    tf(x, y, "WORKS", 90); y += 35
    tf(x, y, "WITH HIS HANDS AND HIS BRAIN IS A CRAFTSMAN", 15); y += 60
    tf(x, y, "BUT A MAN WHO",42); y += 40
    tf(x, y, "WORKS WITH HIS HANDS AND HIS BRAIN", 16); y += 55
    tf(x, y, "AND HIS HEART IS", 36); y += 85
    tf(x, y, "AN ARTIST", 64)
    canvas.Gend()
    canvas.End()
}

```

