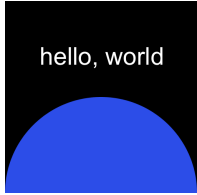


SVGo Examples



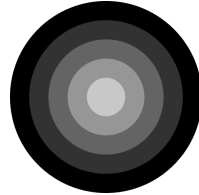
hello.go



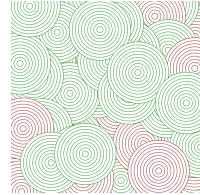
colorhash.go



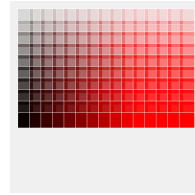
rl.go



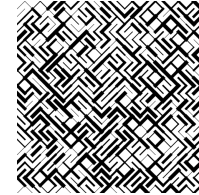
concentric.go



concentric2.go



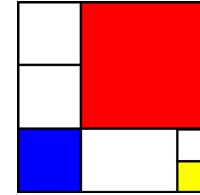
cgrid.go



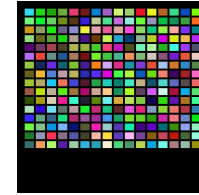
diag.go



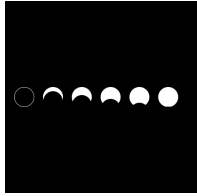
shining.go



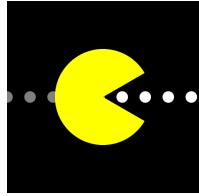
mondrian.go



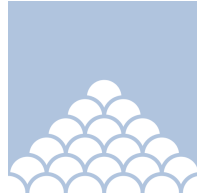
richter.go



eclipse.go



pacman.go



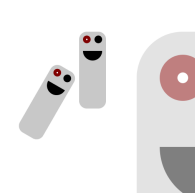
pyramid.go



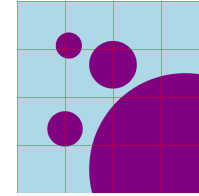
cloud.go



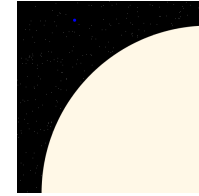
color-clouds.go



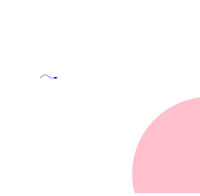
creepy.go



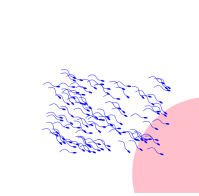
d4h.go



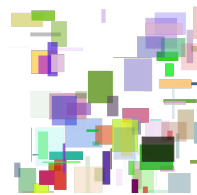
sunearth.go



conception.go



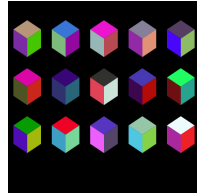
conception2.go



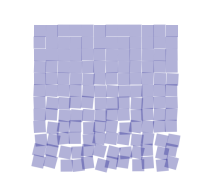
randbox.go



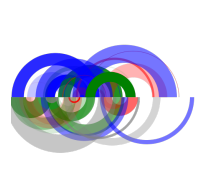
randspot.go



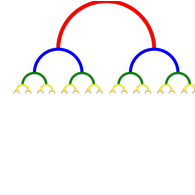
cube.go



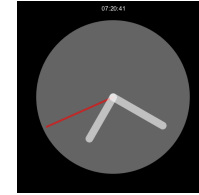
schotter.go



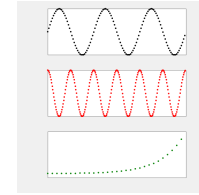
randarc.go



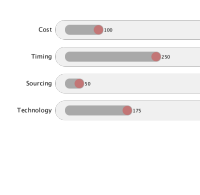
recurse.go



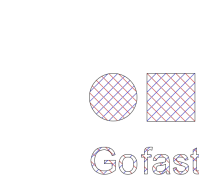
clock.go



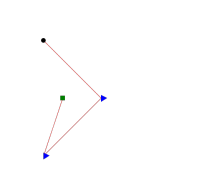
plotfunc.go



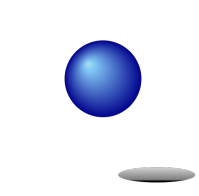
therm.go



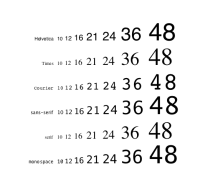
pattern.go



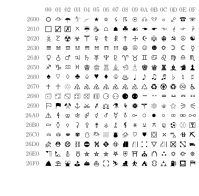
marker.go



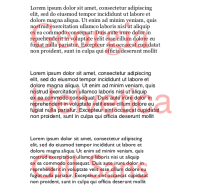
gradient.go



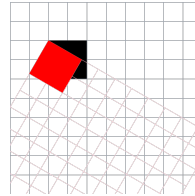
fontrange.go



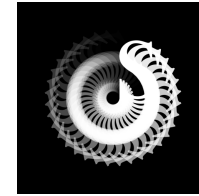
uni.go



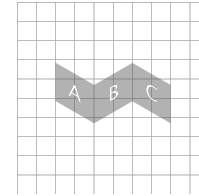
lorem.go



rotate.go



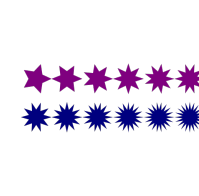
rotext.go



skewabc.go



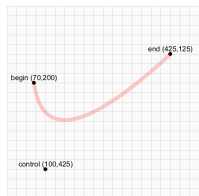
gear.go



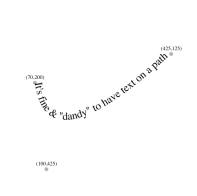
star.go



starx.go



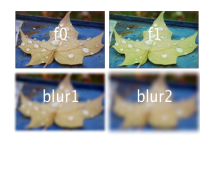
swoosh.go



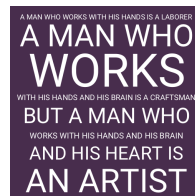
textpath.go



imfade.go



fe.go



artist.go



go.go

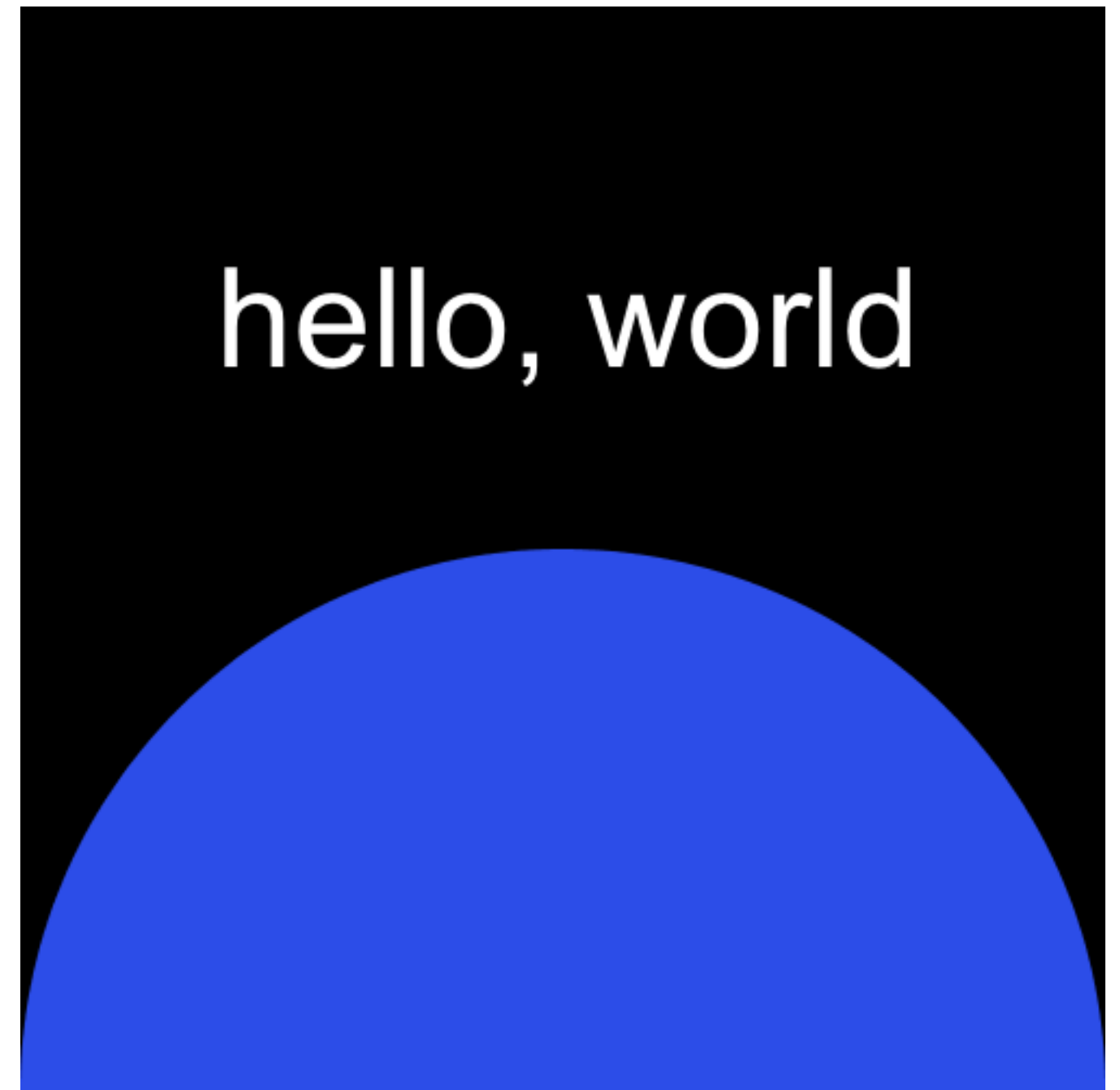
```
package main

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()
}
```



```
package main

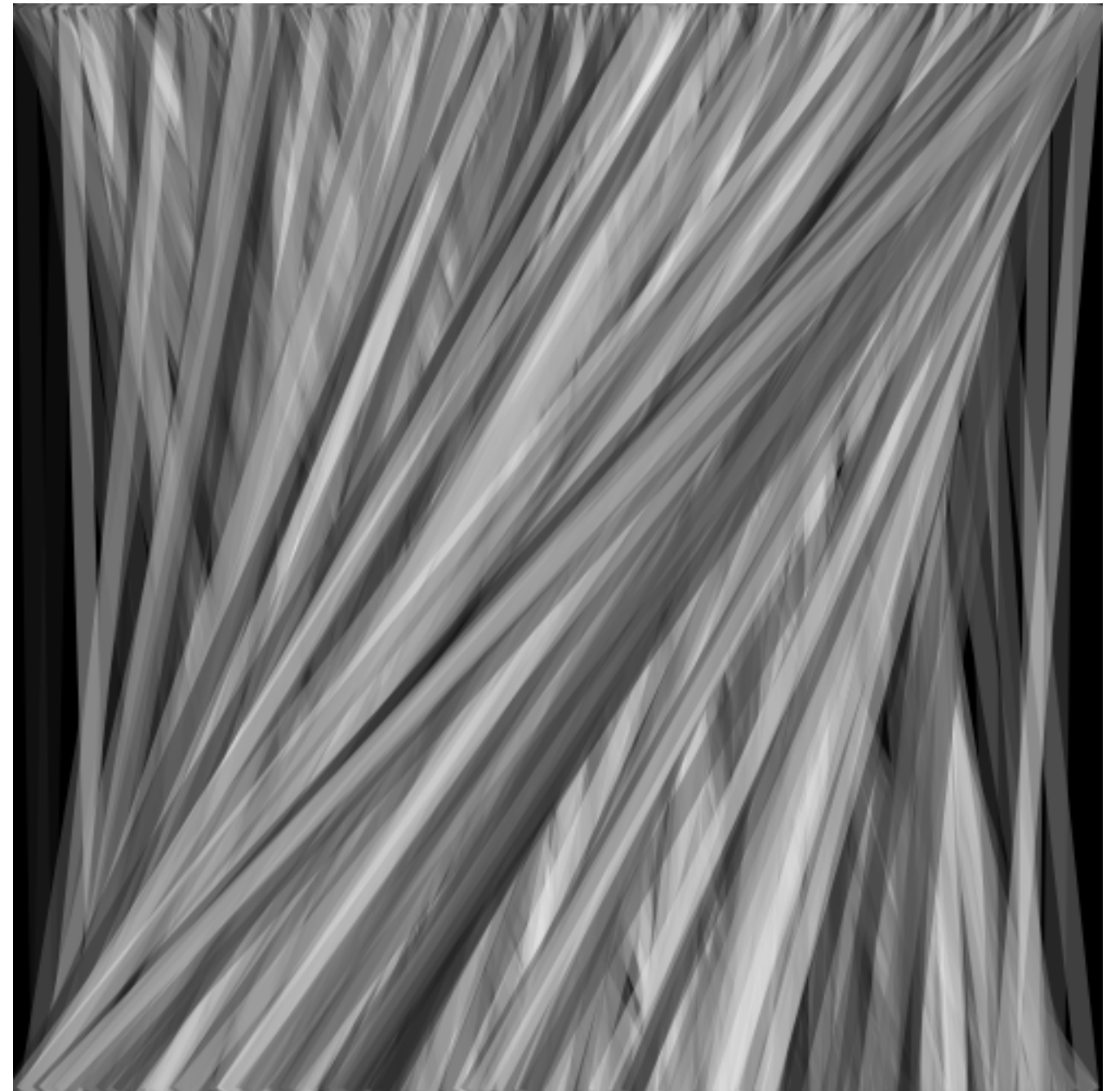
import (
    "fmt"
    "math/rand"
    "os"
    "time"

    "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()
}
```



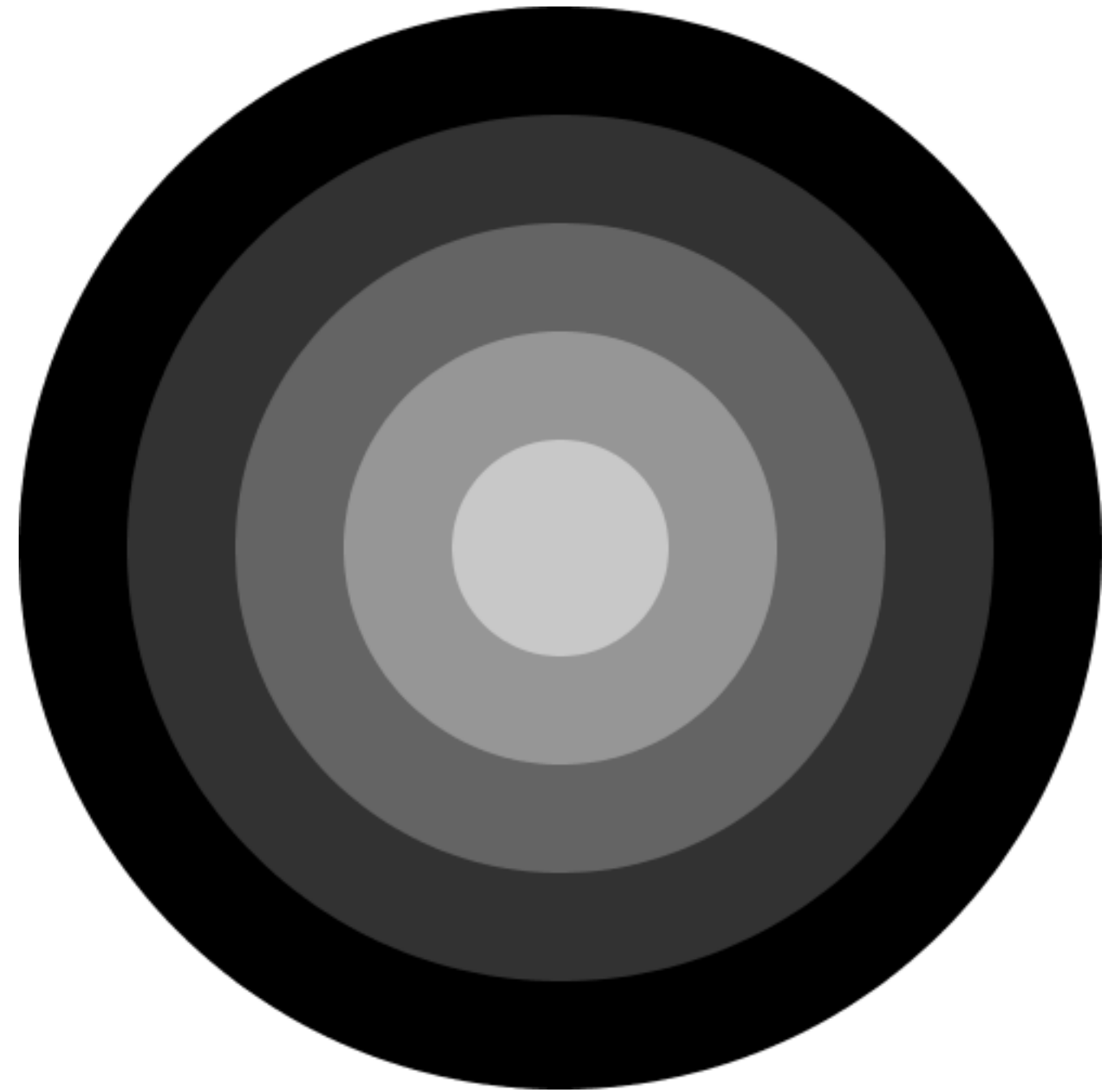
```
package main

import (
    "os"

    "github.com/ajstarks/svggo"
)

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()
}
```



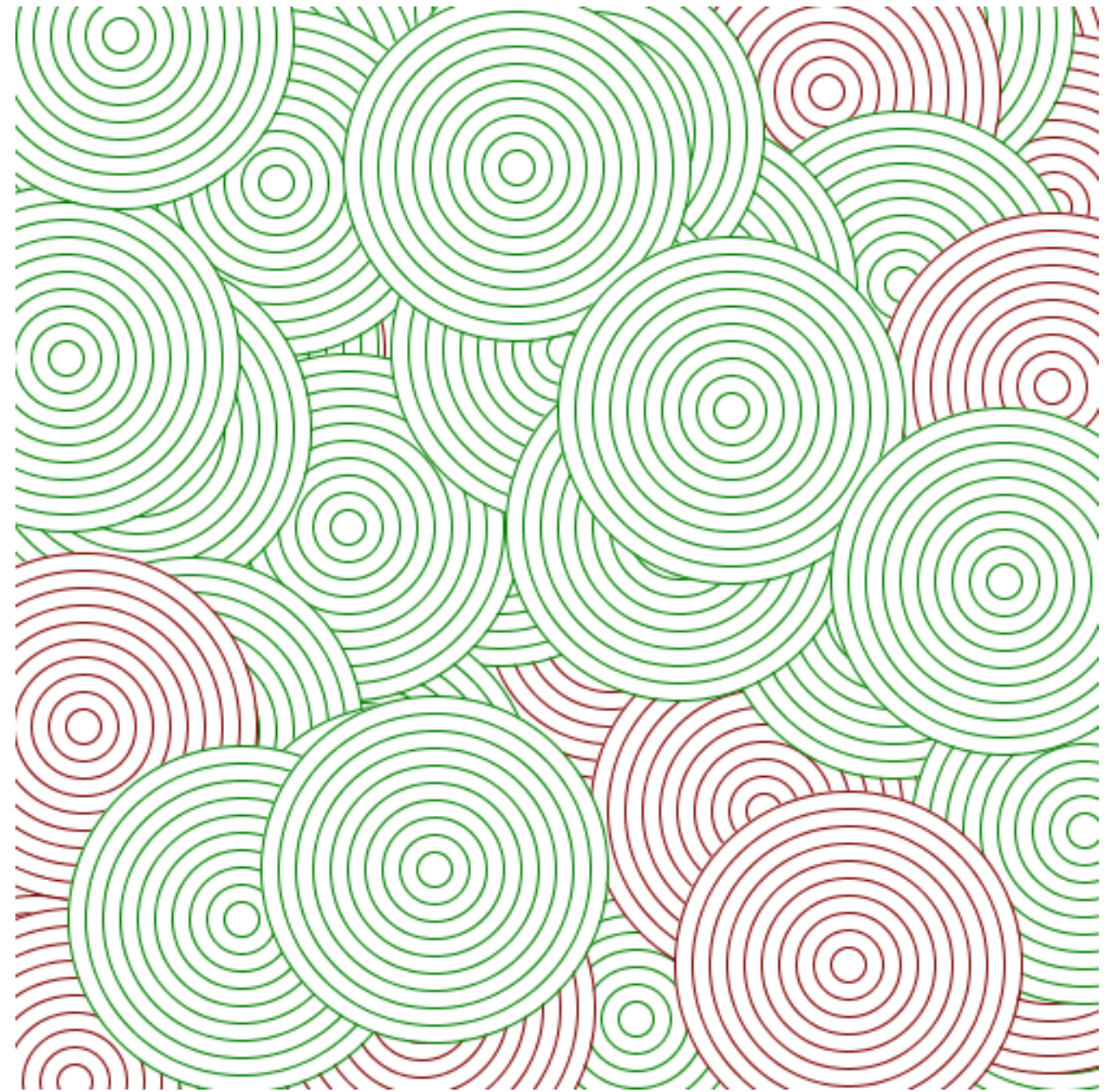

```
package main

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

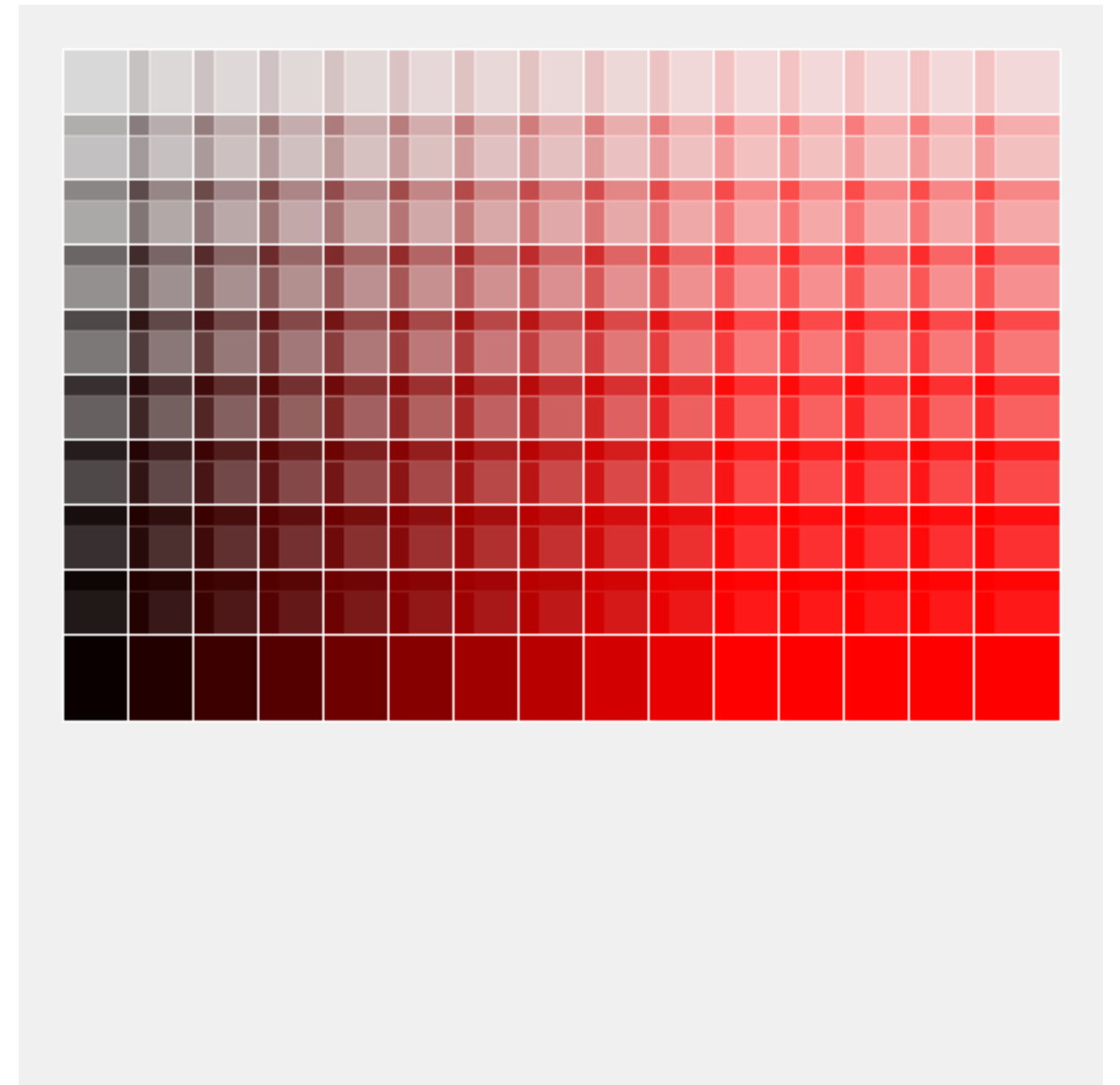
import (
    "os"

    "github.com/ajstarks/svggo"
)

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

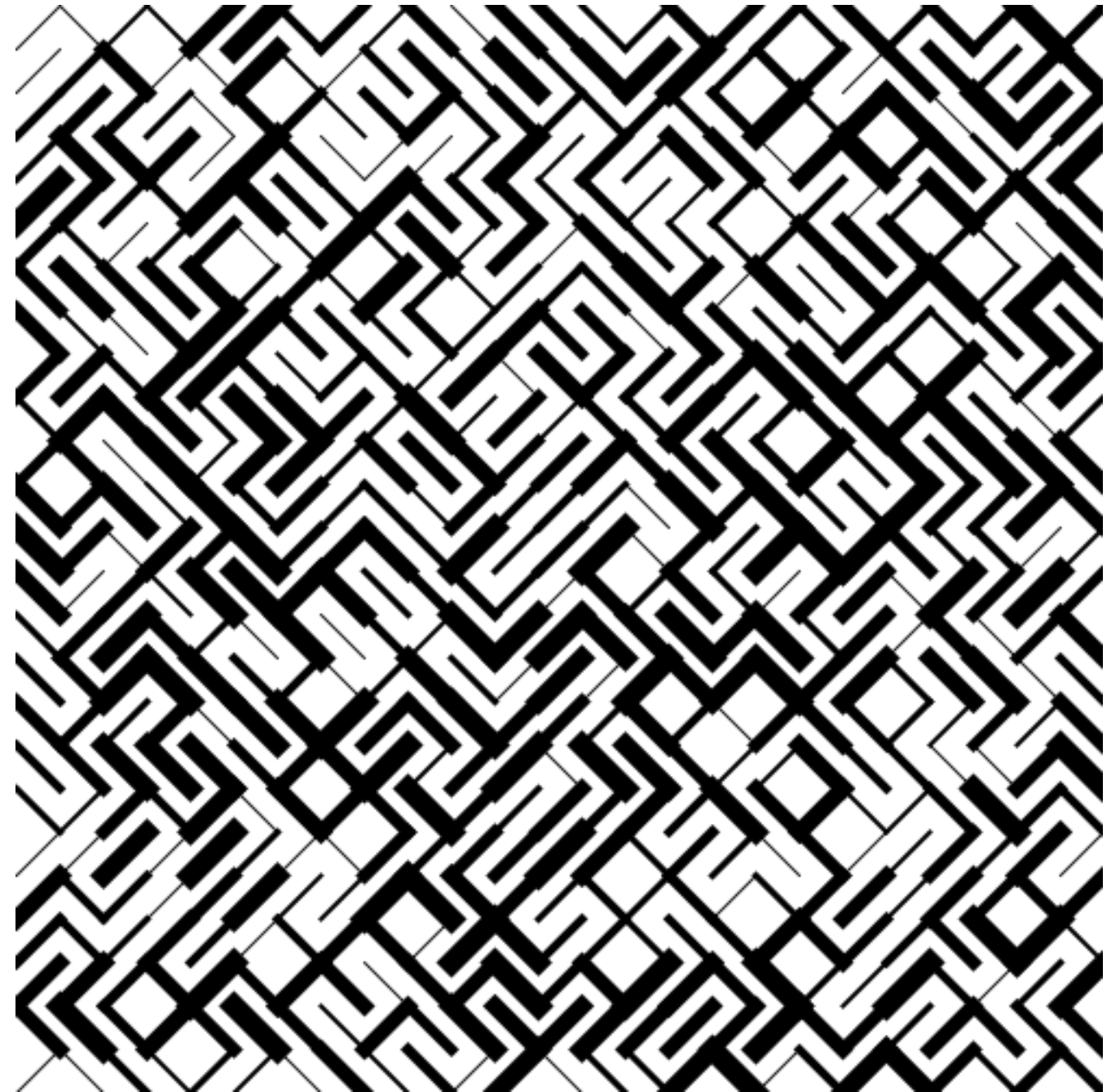
import (
    "fmt"
    "math/rand"
    "os"
    "time"

    "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 (
    "fmt"
    "github.com/ajstarks/svgo"
    "os"
)

func main() {
    xp := []int{50, 70, 70, 50, 30, 30}
    yp := []int{40, 50, 75, 85, 75, 50}
    xl := []int{0, 0, 50, 100, 100}
    yl := []int{100, 40, 10, 40, 100}
    bgcolor := "rgb(227,78,25)"
    bkcolor := "rgb(153,29,40)"
    stcolor := "rgb(65,52,44)"
    stwidth := 12
    stylefmt := "stroke:%s;stroke-width:%d;fill:%s"
    canvas := svg.New(os.Stdout)
    width, height := 500, 500
    canvas.Start(width, height)
    canvas.Def()
    canvas.Gid("unit")
    canvas.Polyline(xl, yl, "fill:none")
    canvas.Polygon(xp, yp)
    canvas.Gend()
    canvas.Gid("runit")
    canvas.TranslateRotate(150, 180, 180)
    canvas.Use(0, 0, "#unit")
    canvas.Gend()
    canvas.Gend()
    canvas.DefEnd()
    canvas.Rect(0, 0, width, height, "fill:"+bgcolor)
    canvas.Gstyle(fmt.Sprintf(stylefmt, stcolor, stwidth, bkcolor))
    for y := 0; y < height; y += 130 {
        for x := -50; x < width; x += 100 {
            canvas.Use(x, y, "#unit")
            canvas.Use(x, y, "#runit")
        }
    }
    canvas.Gend()
    canvas.End()
}

```



```

package main

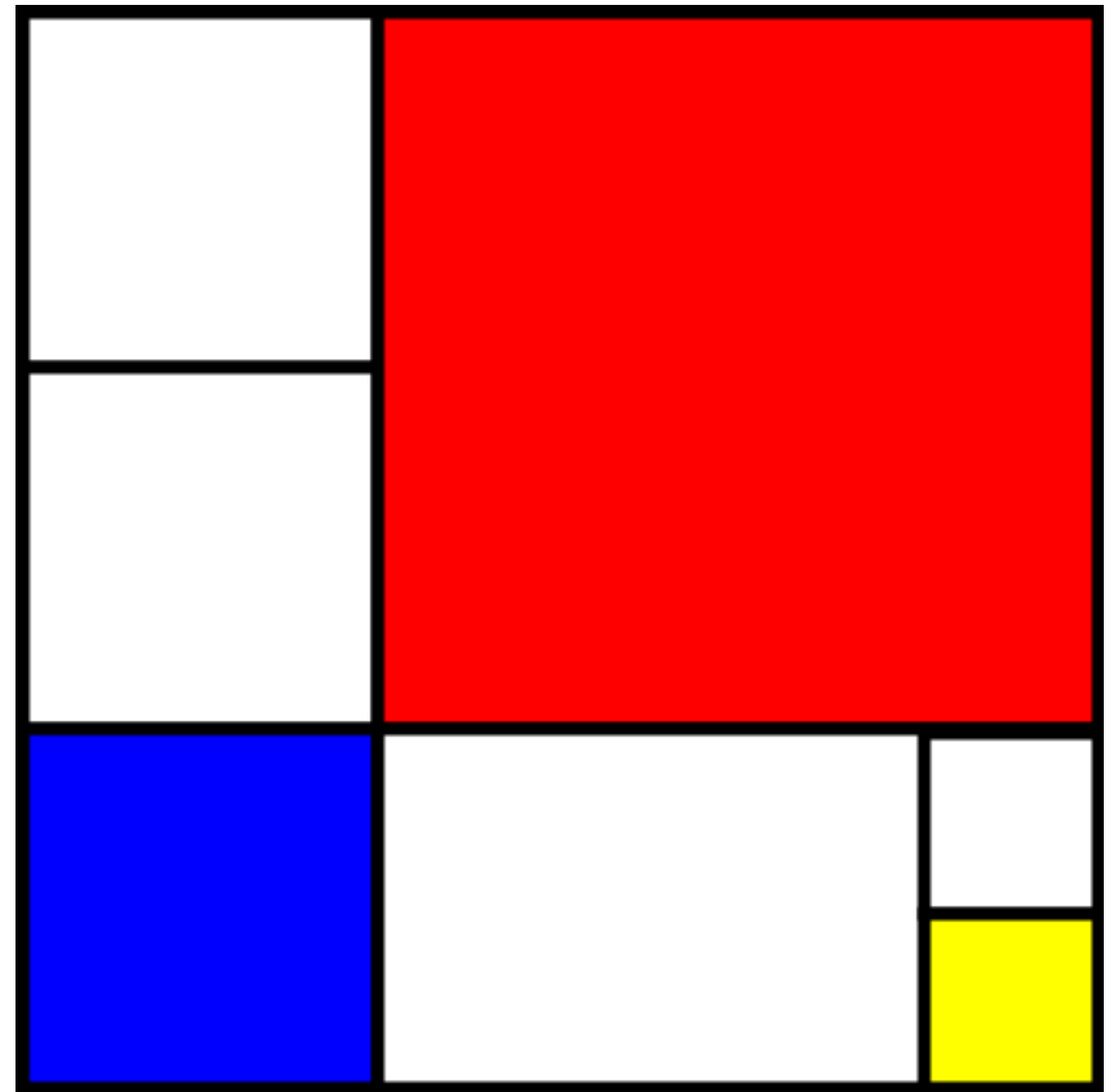
import (
    "os"

    "github.com/ajstarks/svgo"
)

var (
    canvas = svg.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"
)

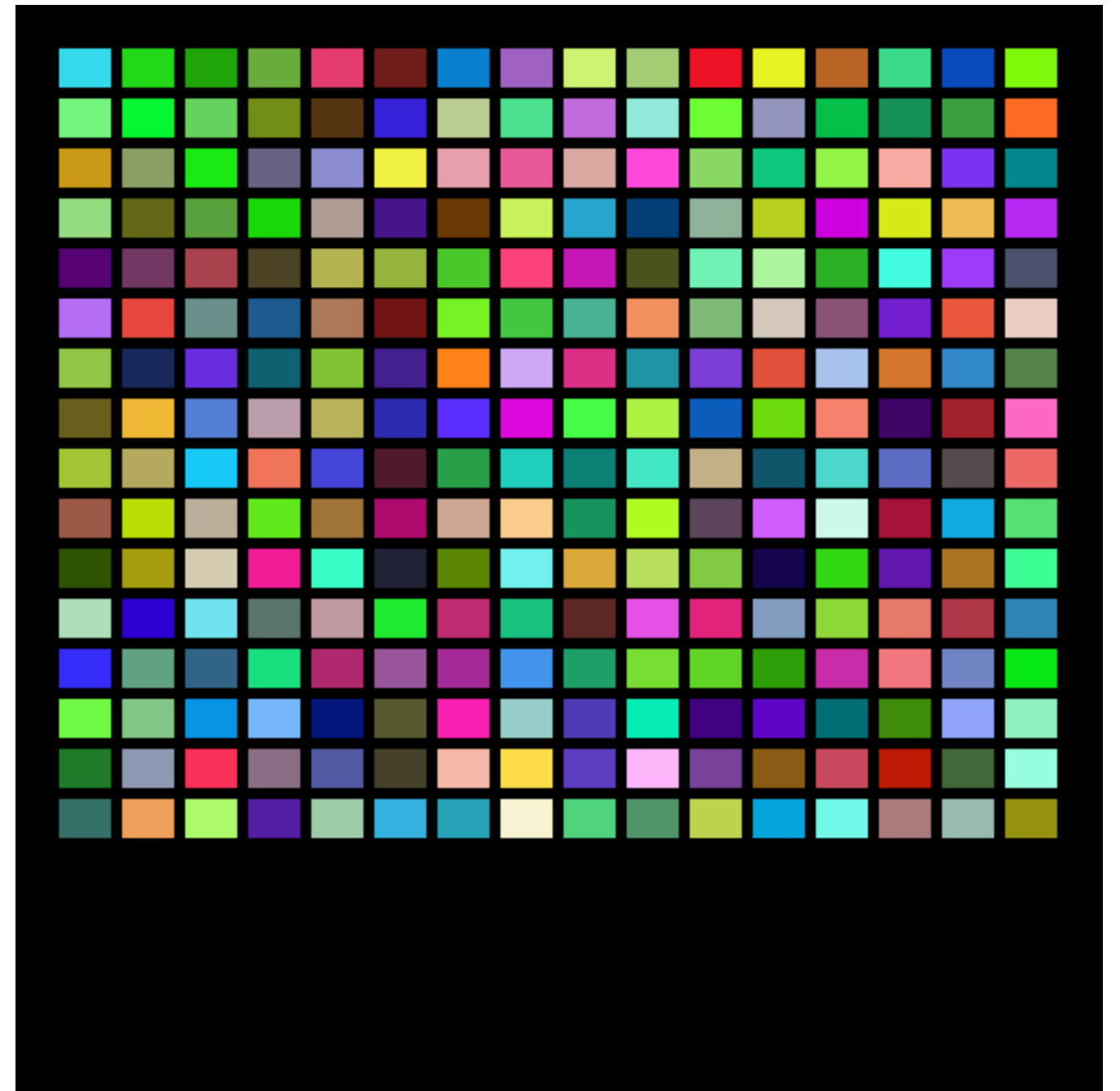
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

// 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()
}

```



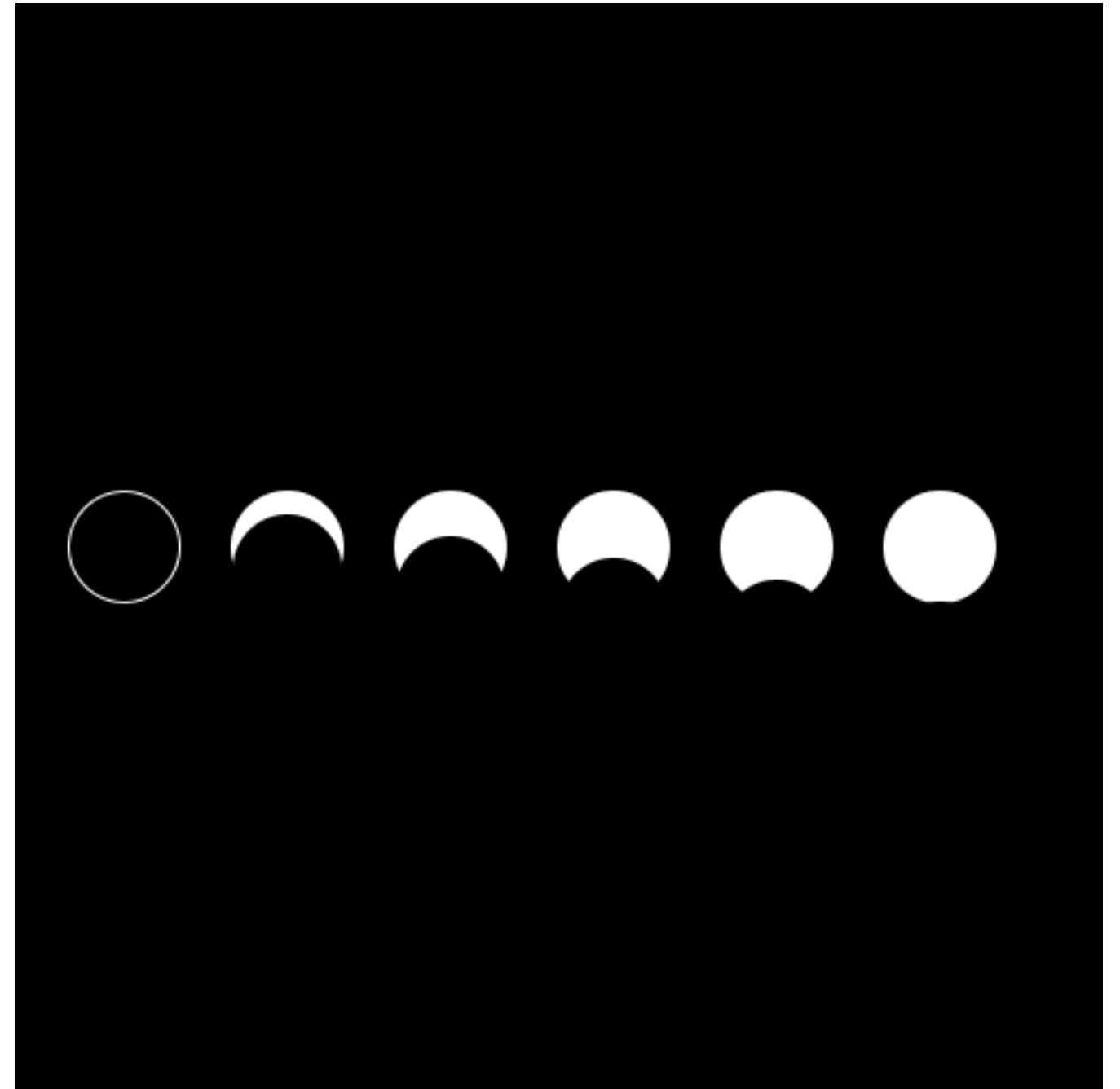
```
package main

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 (
    "github.com/ajstarks/svgo"
    "os"
)

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

func main() {
    angle, cx, cy := 30.0, width/2, height/2
    r := width / 4
    p := r / 8

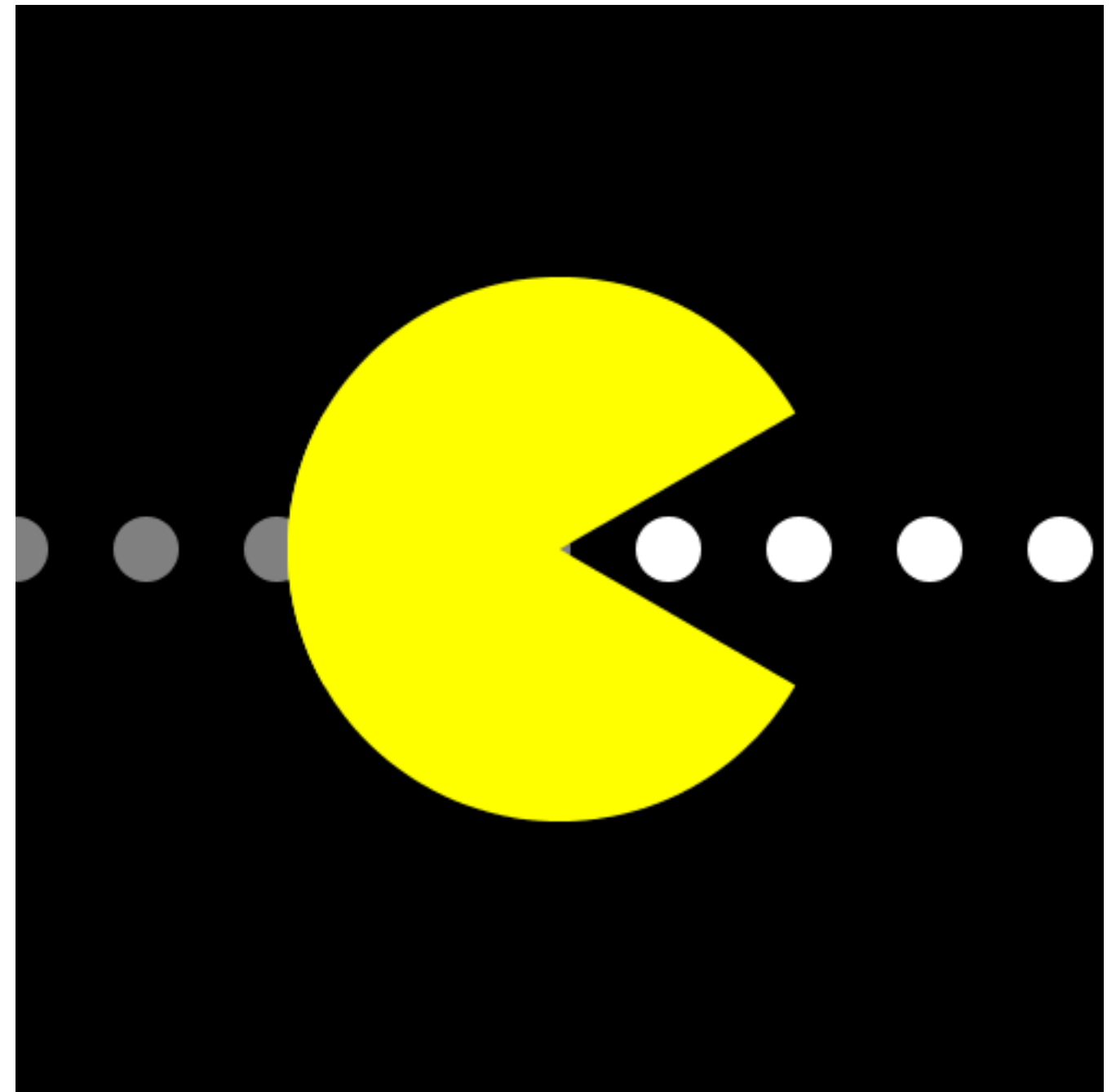
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    canvas.Gstyle("fill:white")
    for x := 0; x < 100; x += 12 {
        if x < 50 {
            canvas.Circle((width*x)/100, cy, p, "fill-opacity:0.5")
        } else {
            canvas.Circle((width*x)/100, cy, p, "fill-opacity:1")
        }
    }
    canvas.Gend()

    canvas.Gstyle("fill:yellow")
    canvas.TranslateRotate(cx, cy, -angle)
    canvas.Arc(-r, 0, r, r, 30, false, true, r, 0)
    canvas.Gend()

    canvas.TranslateRotate(cx, cy, angle)
    canvas.Arc(-r, 0, r, r, 30, false, false, r, 0)
    canvas.Gend()

    canvas.Gend()
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

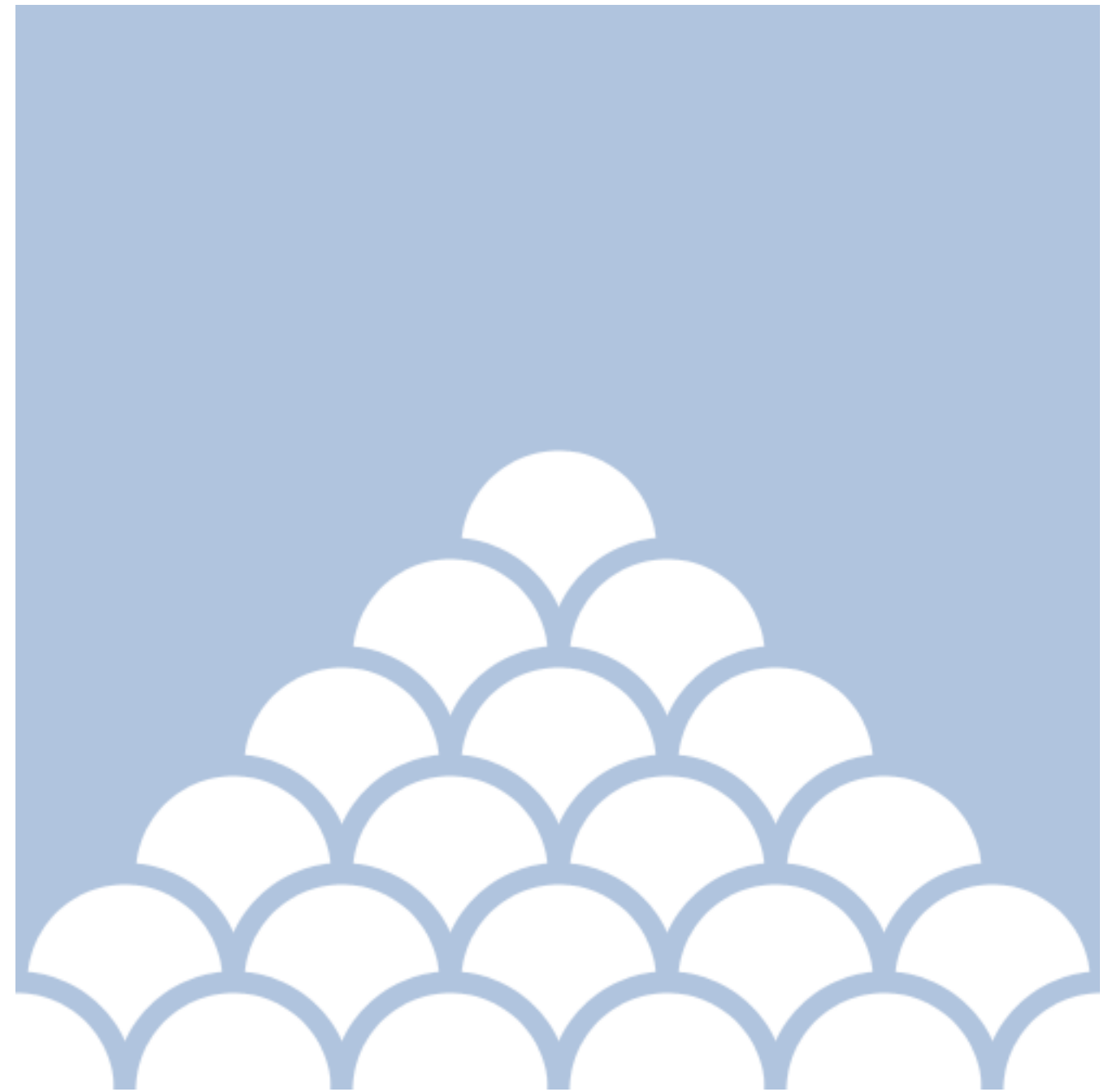
    "github.com/ajstarks/svgo"
)

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

func main() {
    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"

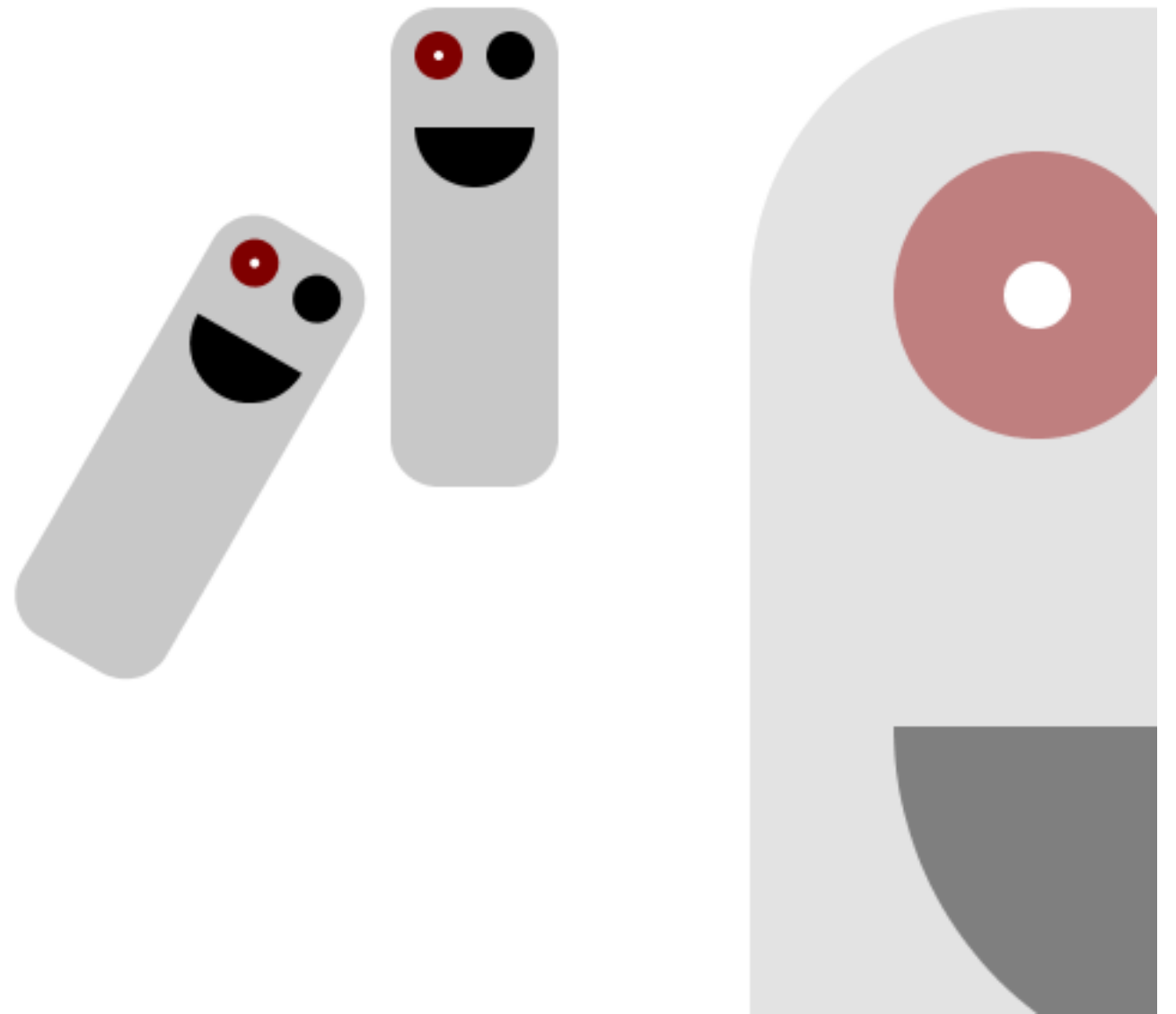
    "github.com/ajstarks/svgo"
)

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
)

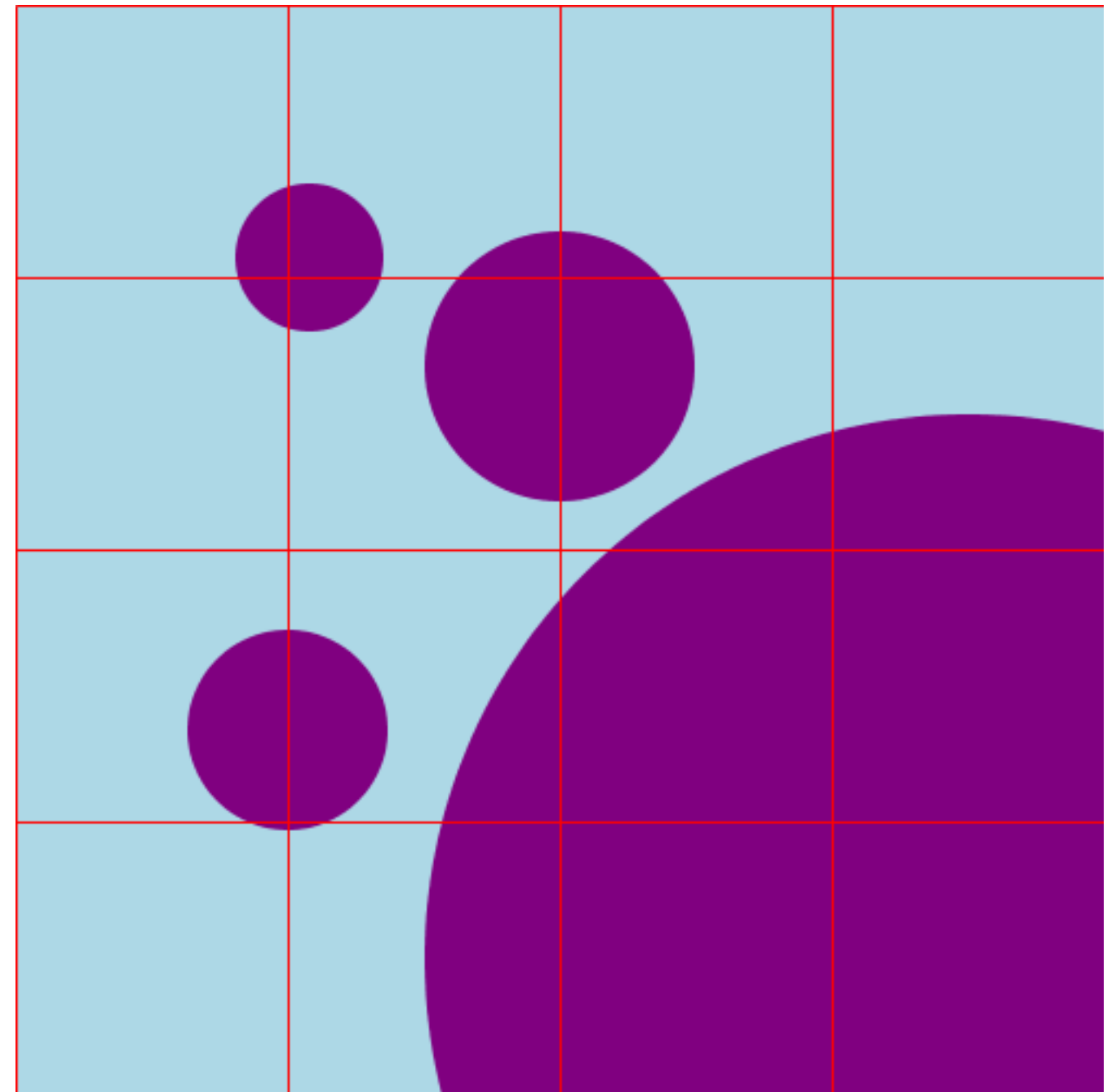
func dot(x, y, d int) {
    canvas.Circle(x, y, d/2, "fill:rgb(128,0,128)")
}

// 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

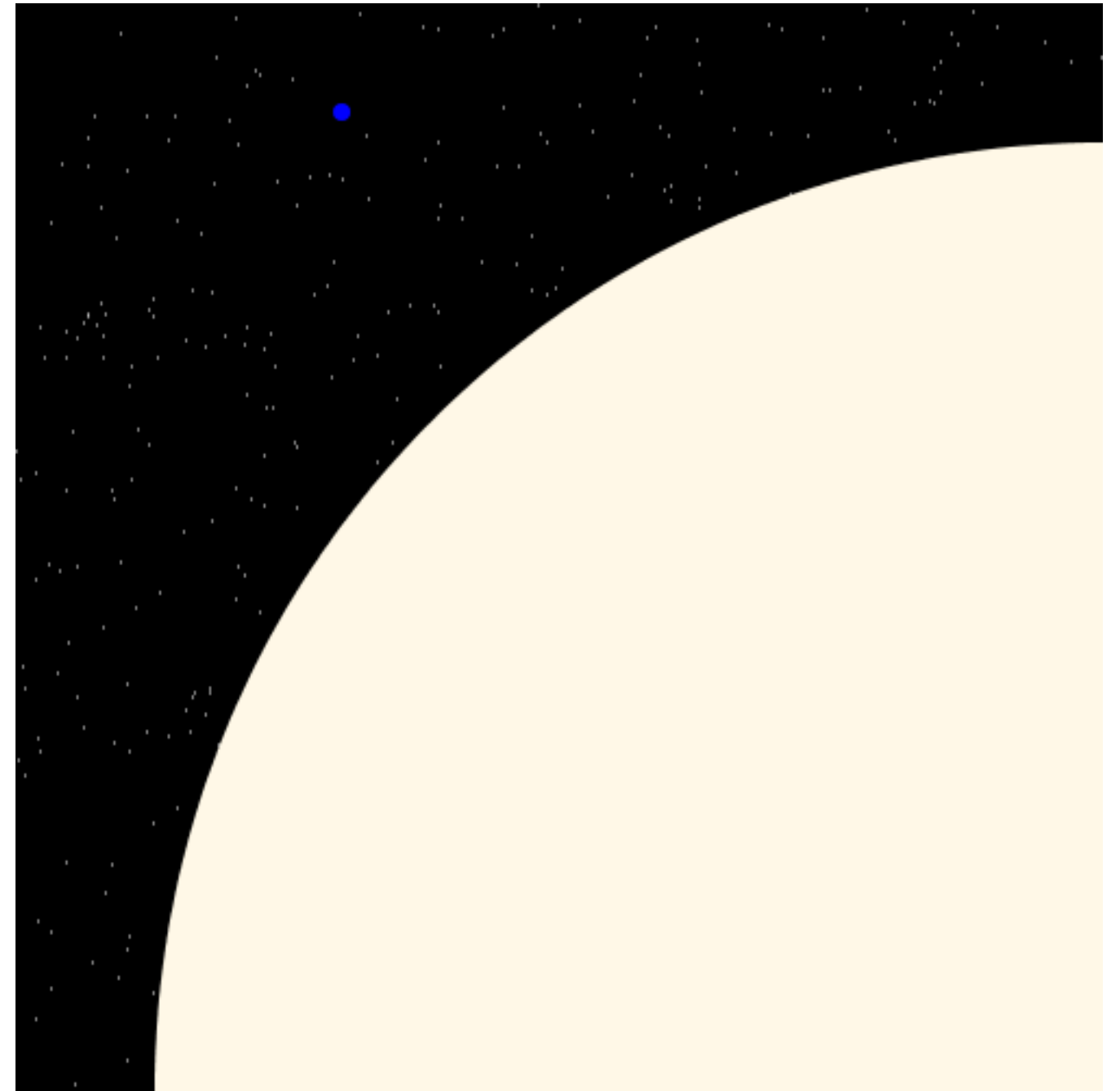
import (
    "math/rand"
    "os"

    "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"
)

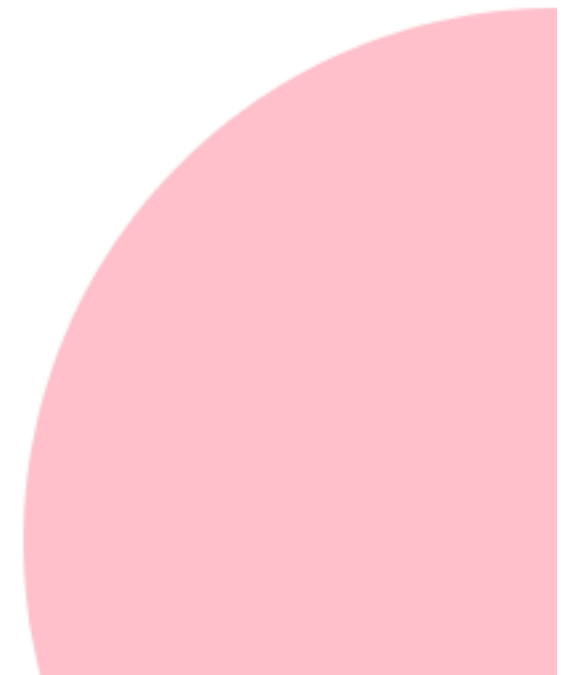
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

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

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

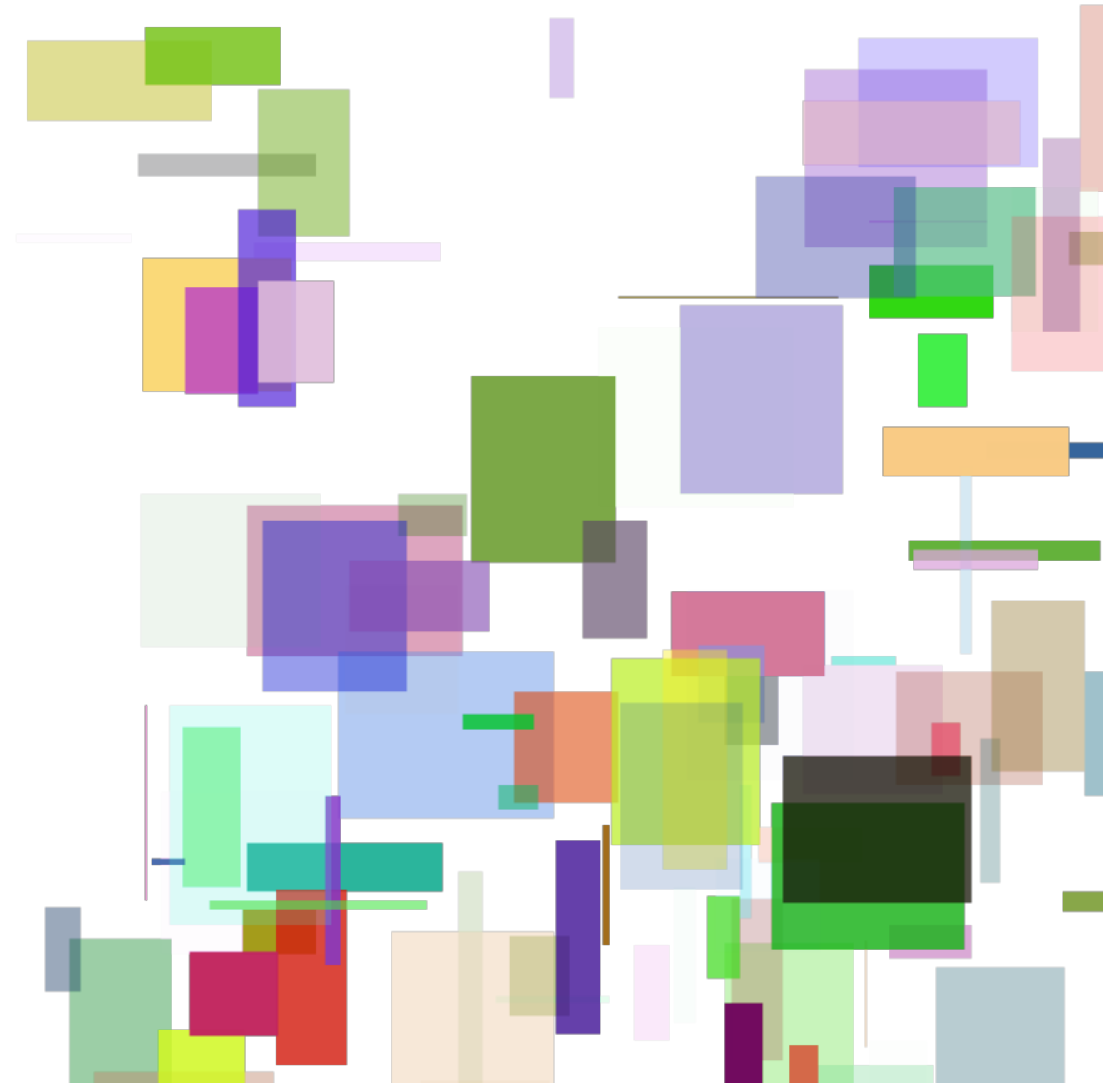
import (
    "math/rand"
    "os"
    "time"

    "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/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.Ellipse(
            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 randcolor() string {
    return canvas.RGB(rand.Intn(255), rand.Intn(255), rand.Intn(255))
}

func rcube(x, y, l int) {
    l2, l3, l4, l6, l8 := l*2, l*3, l*4, l*6, l*8
    tx := []int{x, x + (l3), x, x - (l3), x}
    ty := []int{y, y + (l2), y + (l4), y + (l2), y}
    lx := []int{x - (l3), x, x, x - (l3), x - (l3)}
    ly := []int{y + (l2), y + (l4), y + (l8), y + (l6), y + (l2)}
    rx := []int{x + (l3), x + (l3), x, x, x + (l3)}
    ry := []int{y + (l2), y + (l6), y + (l8), y + (l4), y + (l2)}
    canvas.Polygon(tx, ty, randcolor())
    canvas.Polygon(lx, ly, randcolor())
    canvas.Polygon(rx, ry, randcolor())
}

func main() {
    rand.Seed(time.Now().Unix())
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height)
    xp, y := width/10, height/10
    n, hspace, vspace, size := 3, width/5, height/4, width/40
    for r := 0; r < n; r++ {
        for x := xp; x < width; x += hspace {
            rcube(x, y, size)
        }
        y += vspace
    }
    canvas.End()
}

```



```

package main

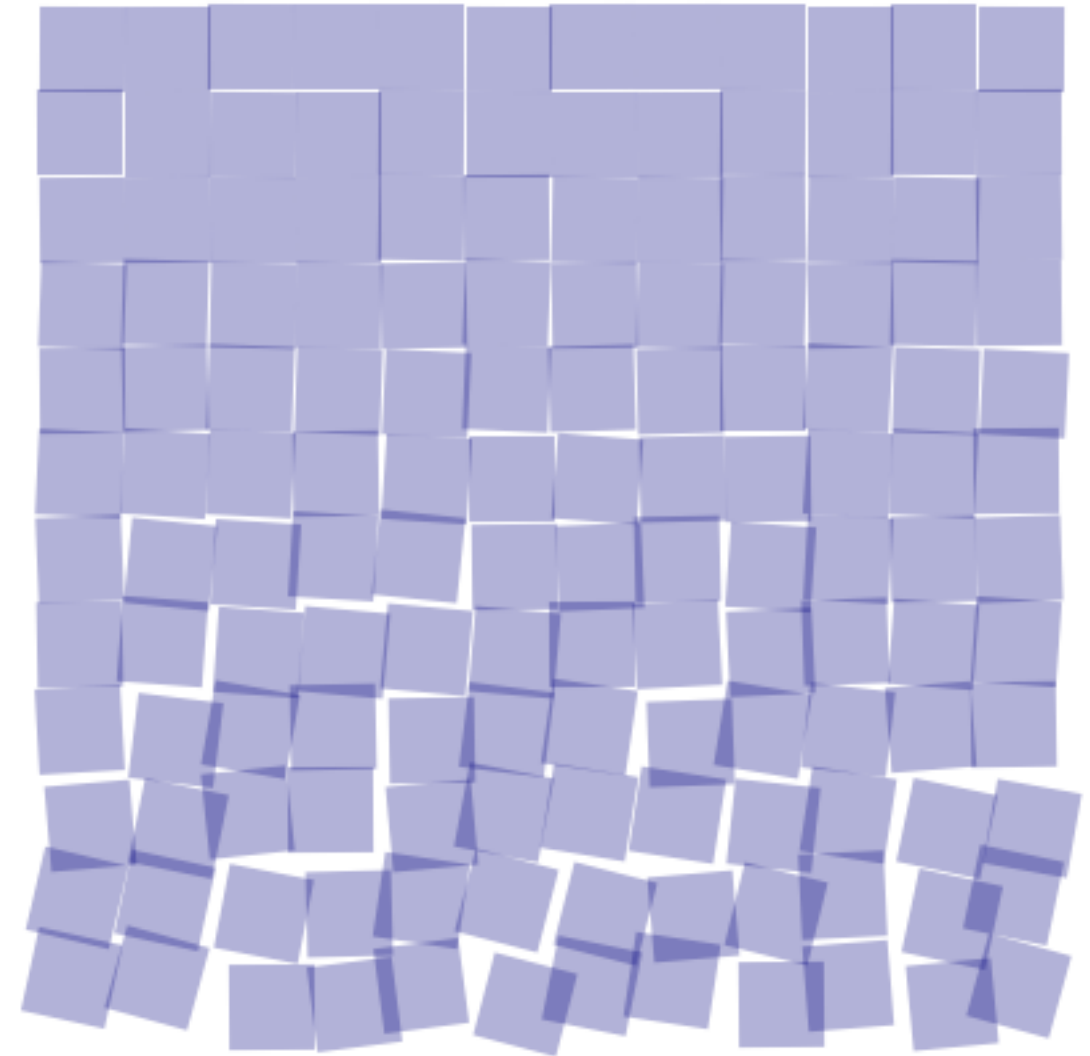
import (
    "github.com/ajstarks/svggo"
    "math/rand"
    "os"
)

func tloc(x, y, s int, r, d float64) (int, int) {
    fx, fy, fs := float64(x), float64(y), float64(s)
    padding := 2 * fs
    return int(padding + (fx * fs) - (.5 * fs) + (r * d)),
        int(padding + (fy * fs) - (.5 * fs) + (r * d))
}

func random(n float64) float64 {
    x := rand.Float64()
    if x < 0.5 {
        return -n * x
    }
    return n * x
}

func main() {
    columns, rows, sqrsz := 12, 12, 32
    rndStep, dampen := .22, 0.45
    width, height := (columns+4)*sqrsz, (rows+4)*sqrsz
    canvas := svg.New(os.Stdout)
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")
    canvas.Gstyle("fill:rgb(0,0,127);fill-opacity:0.3")
    for y, randsum := 1, 0.0; y <= rows; y++ {
        randsum += float64(y) * rndStep
        for x := 1; x <= columns; x++ {
            tx, ty := tloc(x, y, sqrsz, random(randsum), dampen)
            canvas.TranslateRotate(tx, ty, random(randsum))
            canvas.CenterRect(0, 0, sqrsz, sqrsz)
            canvas.Gend()
        }
    }
    canvas.Gend()
    canvas.End()
}

```



```

package main

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

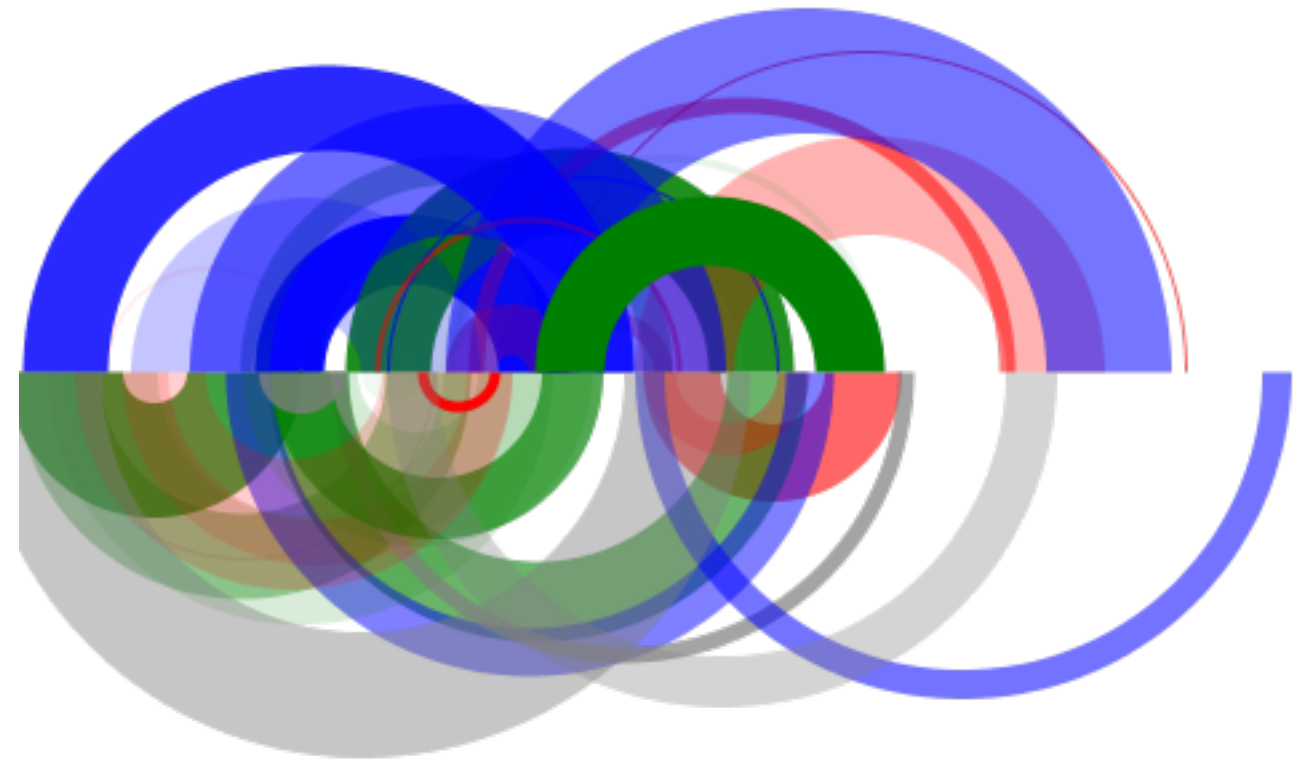
    "github.com/ajstarks/svgo"
)

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

func 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
```

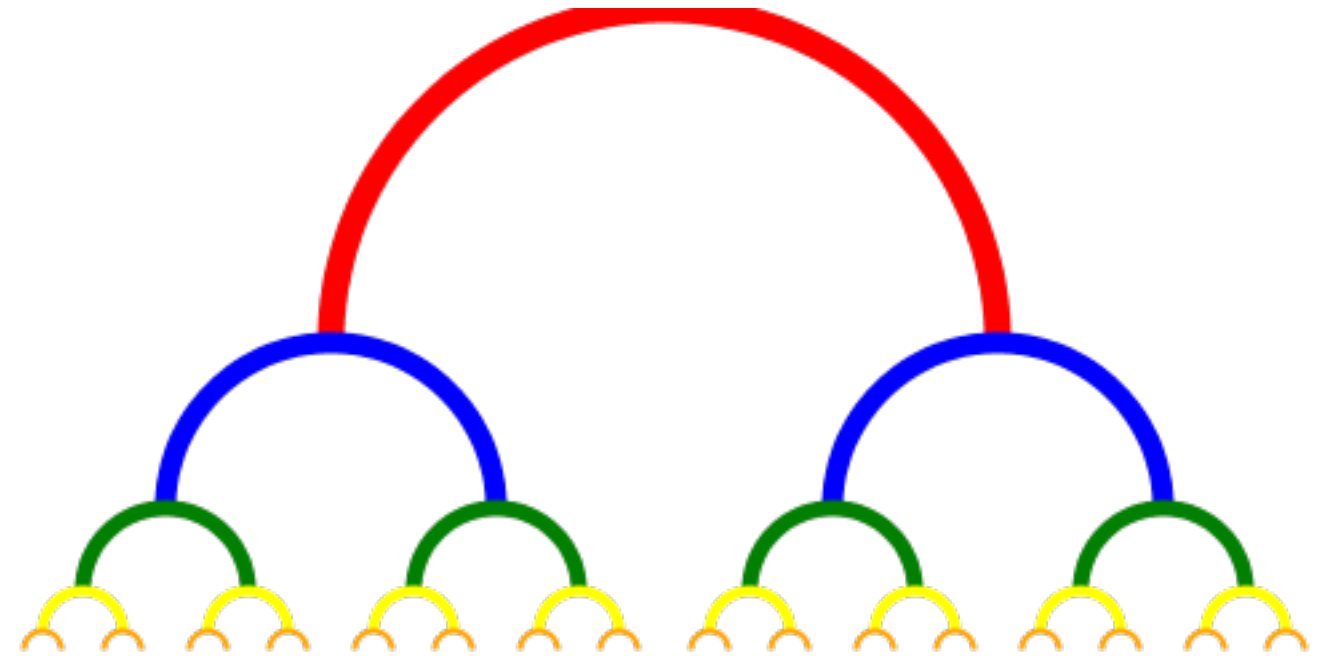
```
import (  
    "fmt"  
    "os"  
  
    "github.com/ajstarks/svgo"  
)
```

```
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

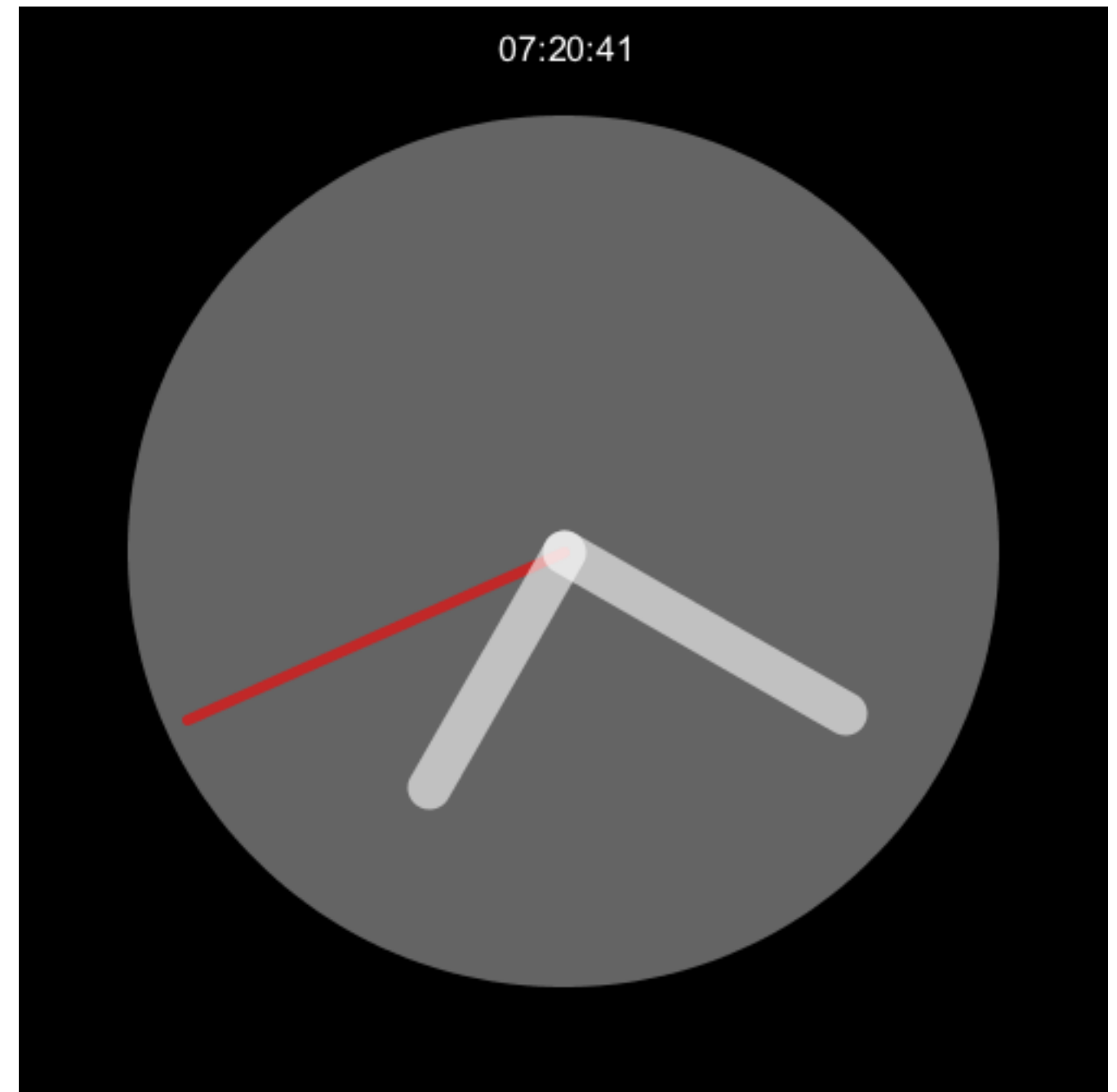
import (
    "fmt"
    "github.com/ajstarks/svgo"
    "math"
    "os"
    "time"
)

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"
)

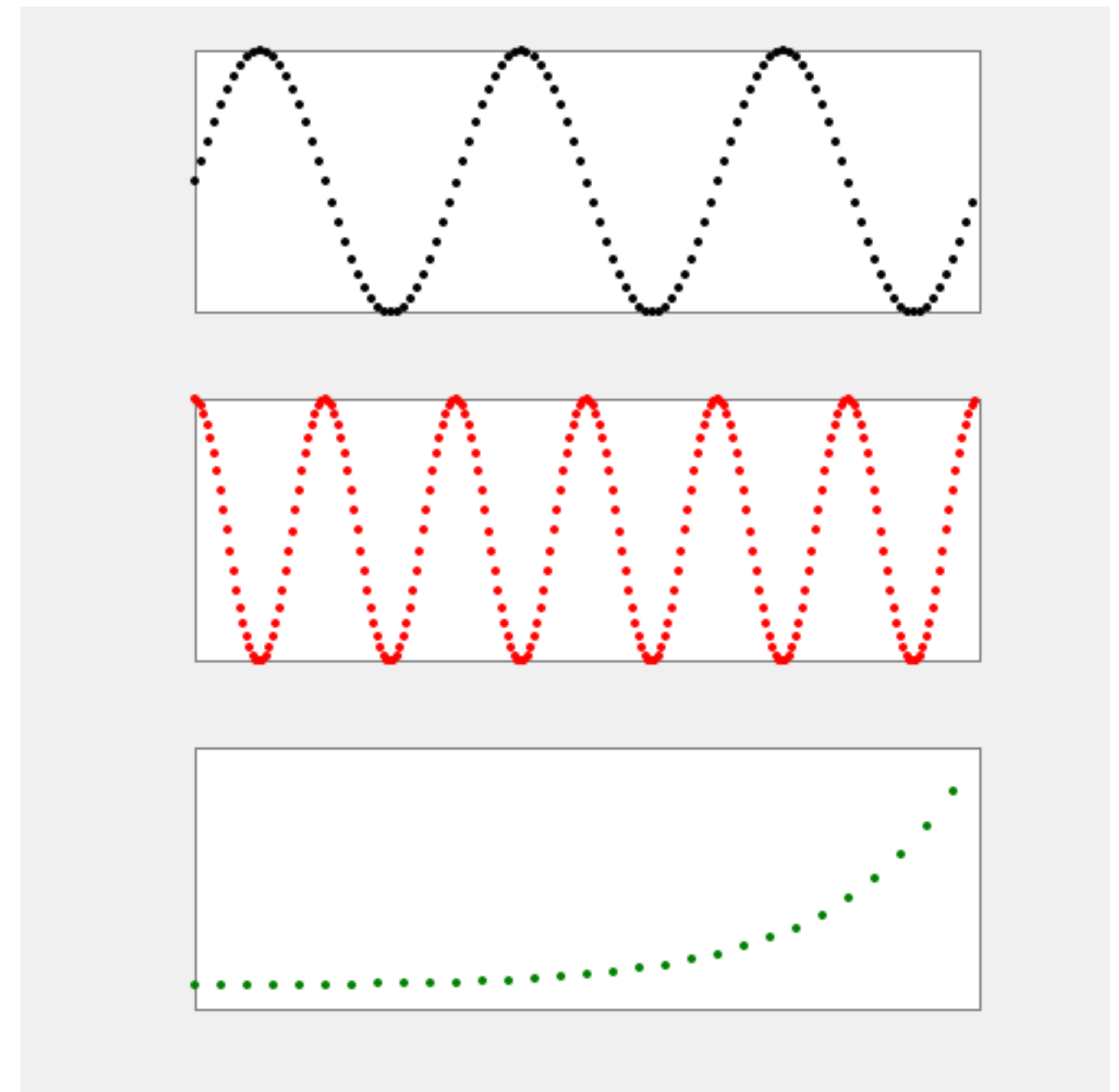
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

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"
)

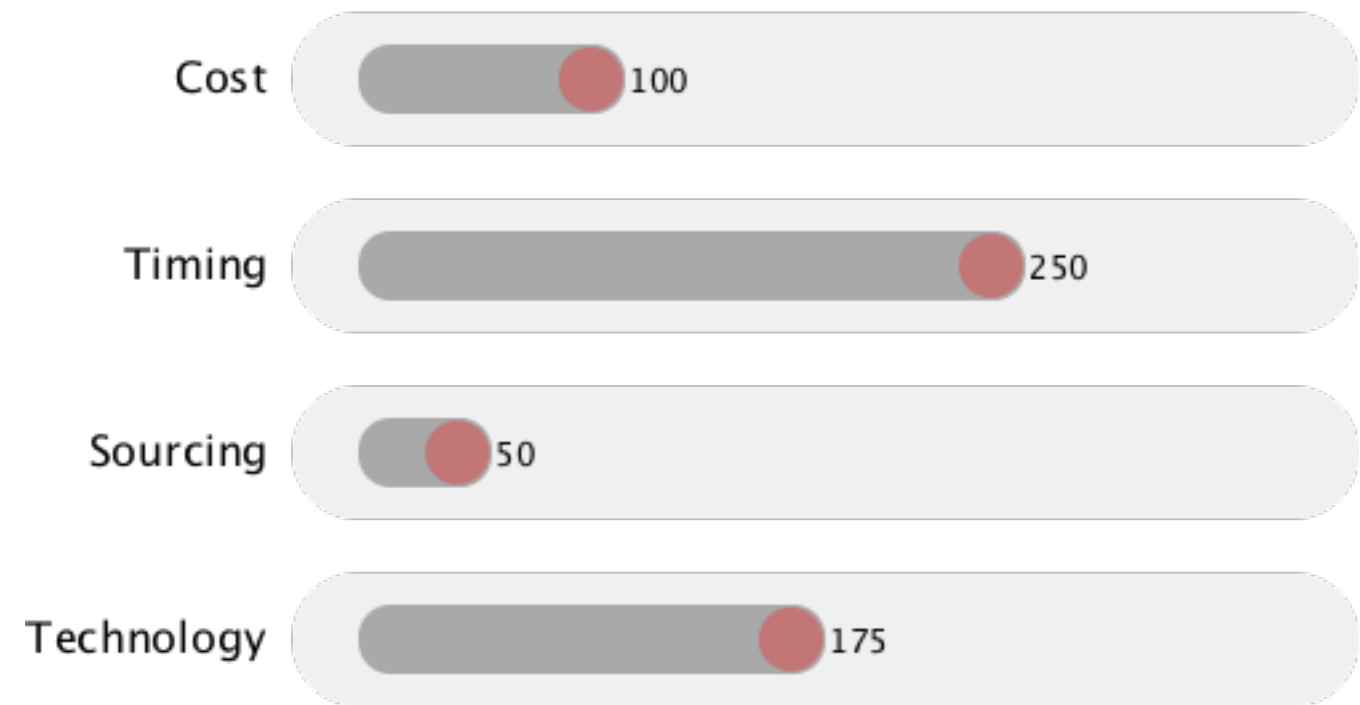
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

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()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

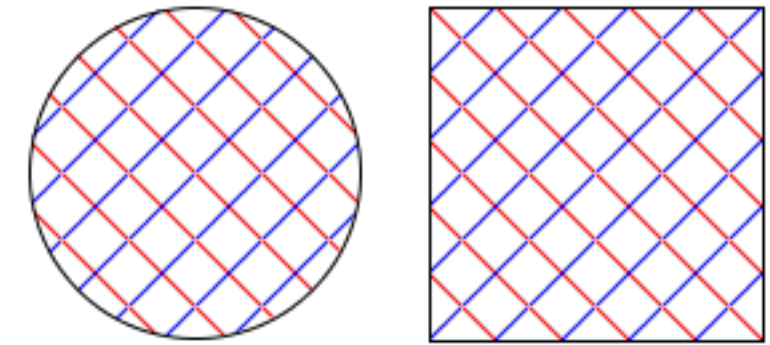
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

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()
}

```



Go fast

```

package main

import (
    "os"

    "github.com/ajstarks/svgo"
)

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

func main() {

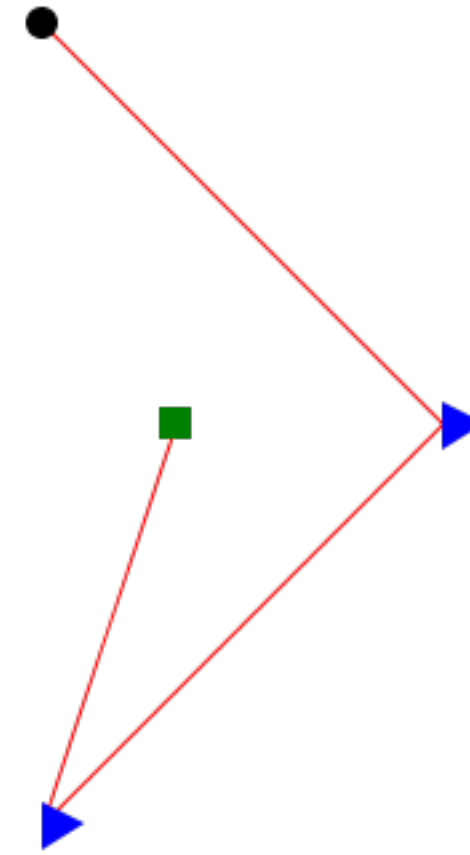
    canvas.Start(width, height)
    canvas.Def()
    canvas.Marker("dot", 10, 10, 16, 16)
    canvas.Circle(10, 10, 6, "fill:black")
    canvas.MarkerEnd()

    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

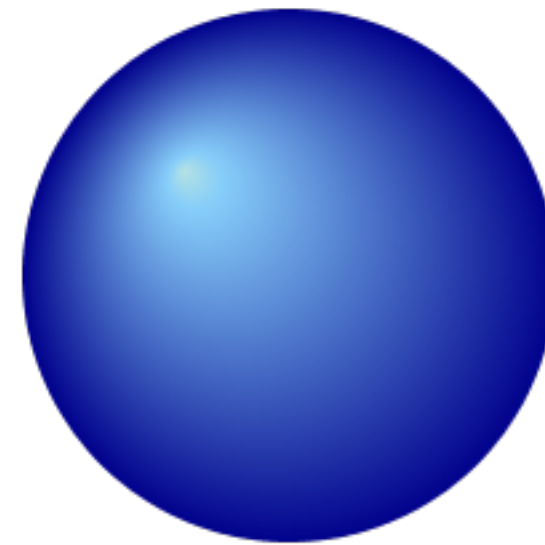
import (
    "os"

    "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",
        "reprehenderit in voluptate velit esse cillum dolore eu",
        "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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 fugiat nulla pariatur. Excepteur sint occaecat cupidatat
 non proident, sunt in culpa qui officia deserunt mollit

```
package main

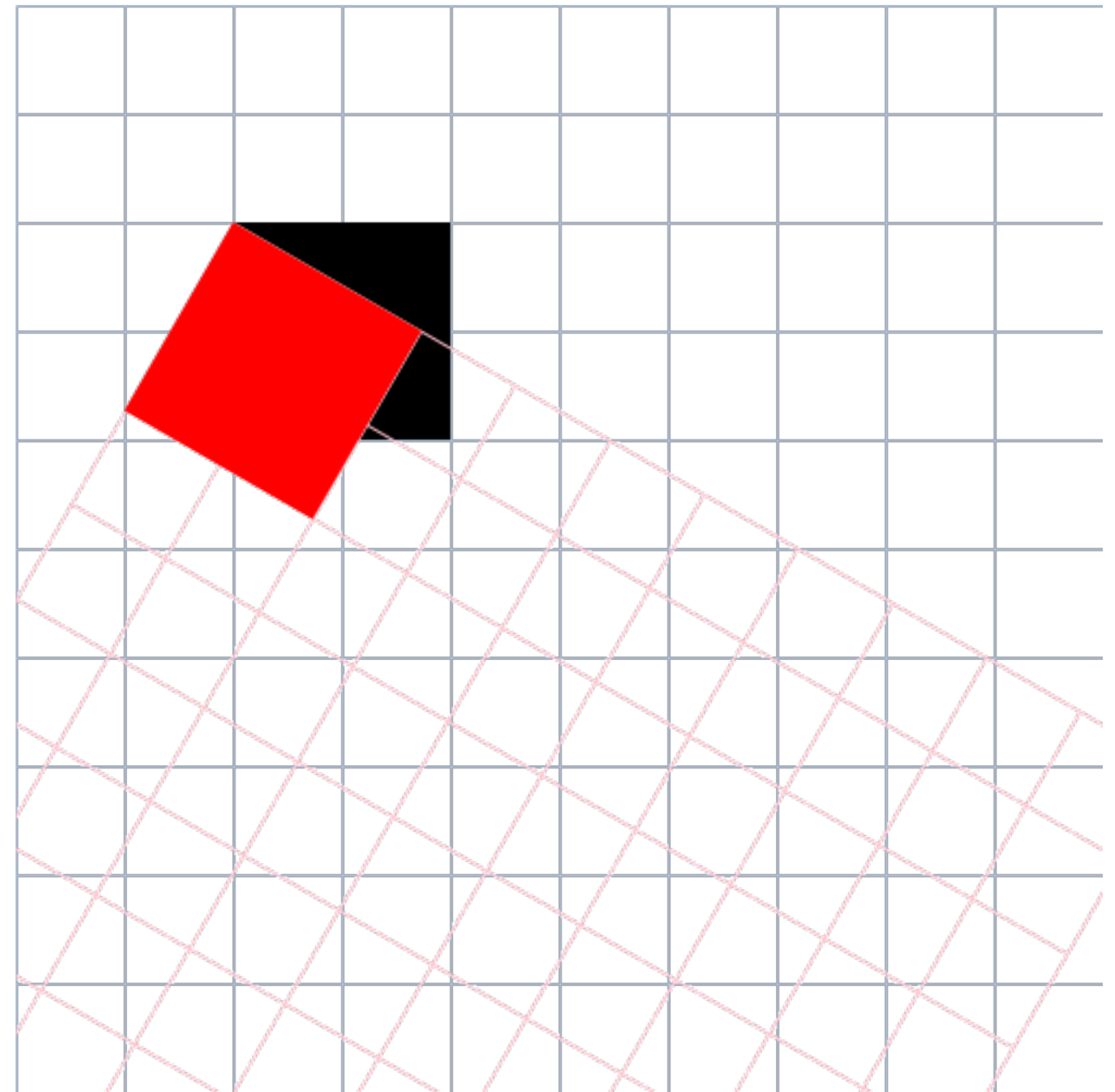
import (
    "os"

    "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"

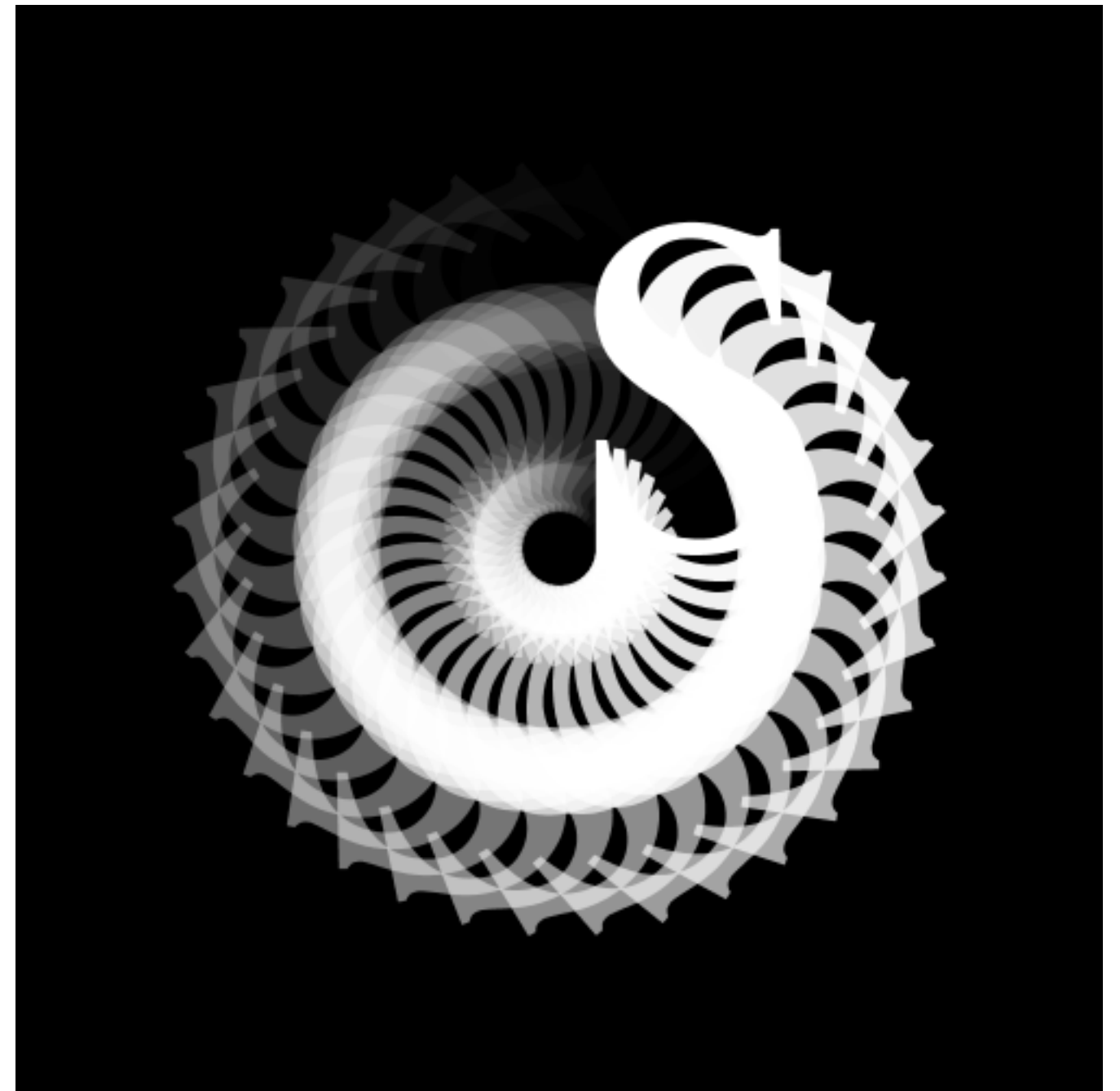
    "github.com/ajstarks/svgo"
)

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"

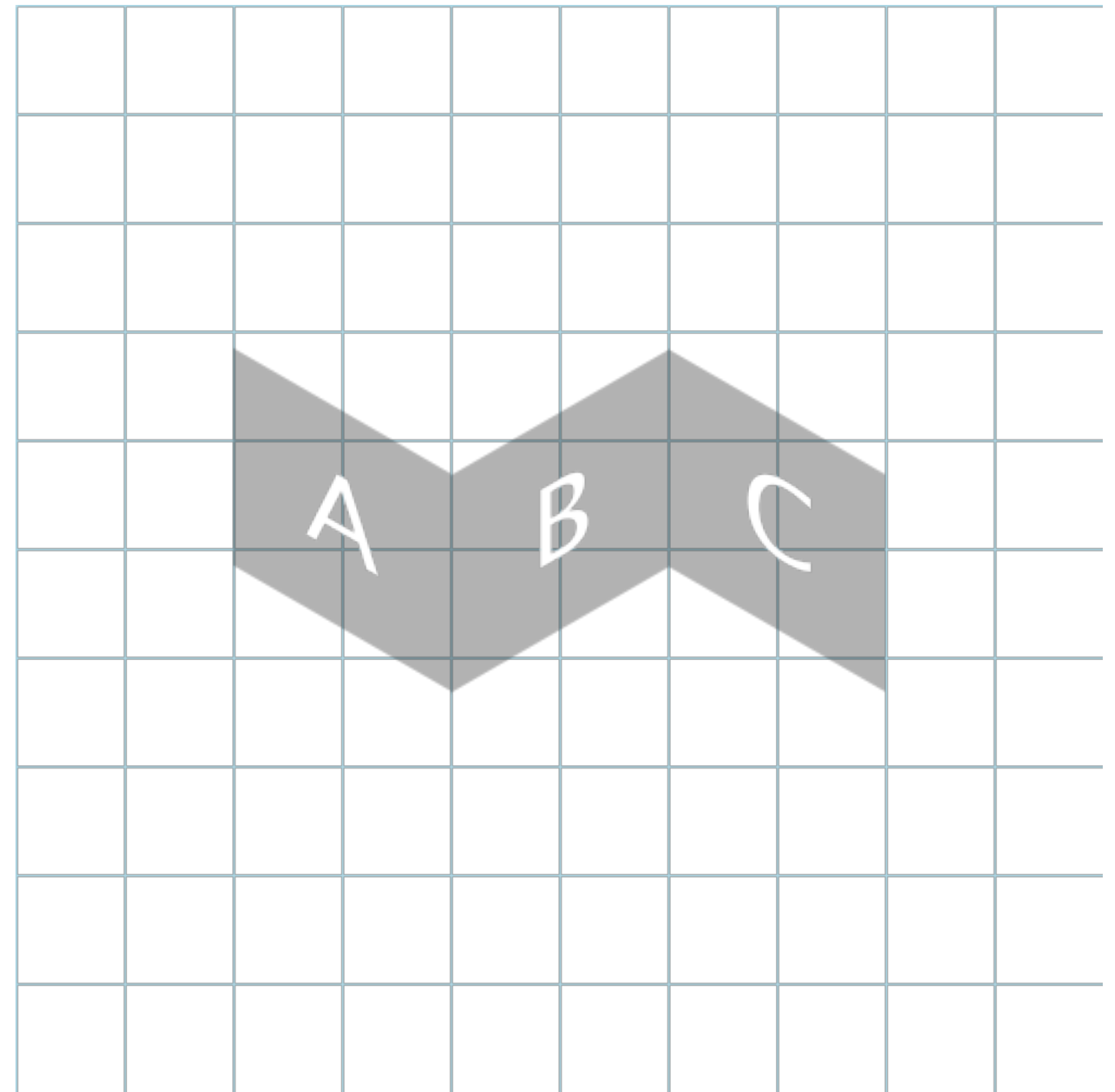
    "github.com/ajstarks/svgo"
)

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:%dpx;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

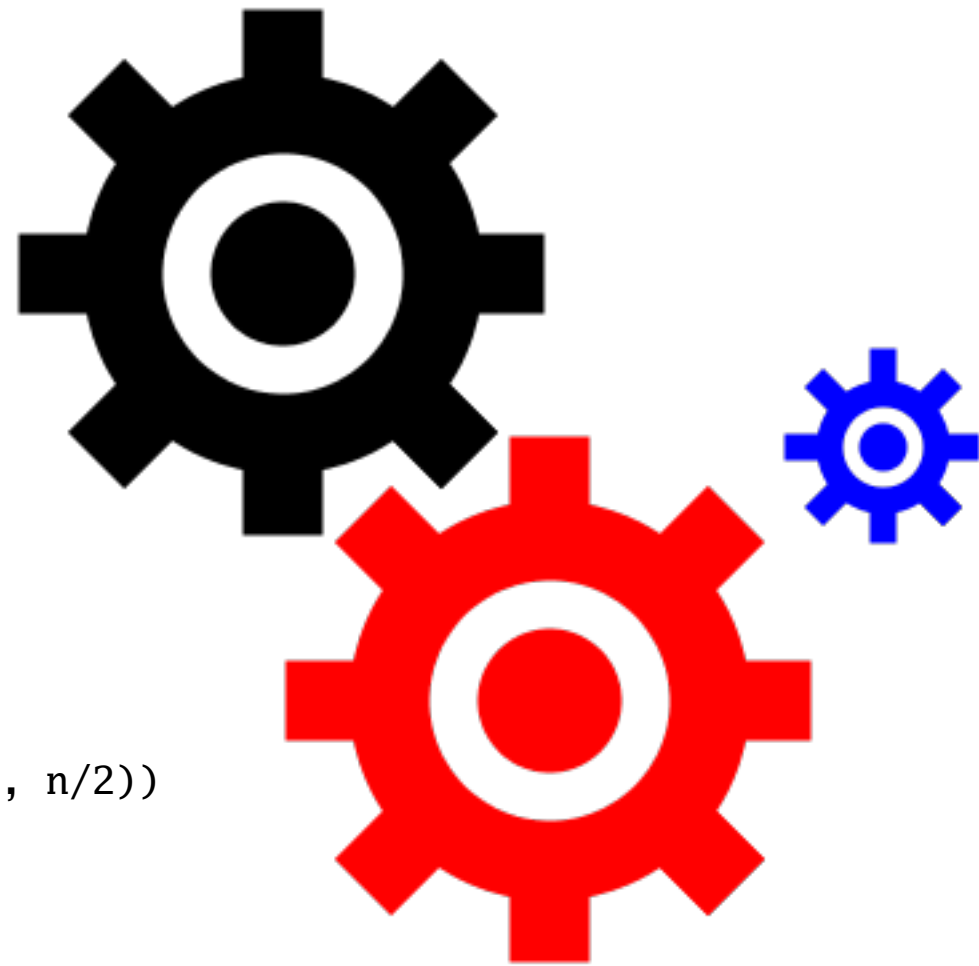
import (
    "fmt"
    "os"

    "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"

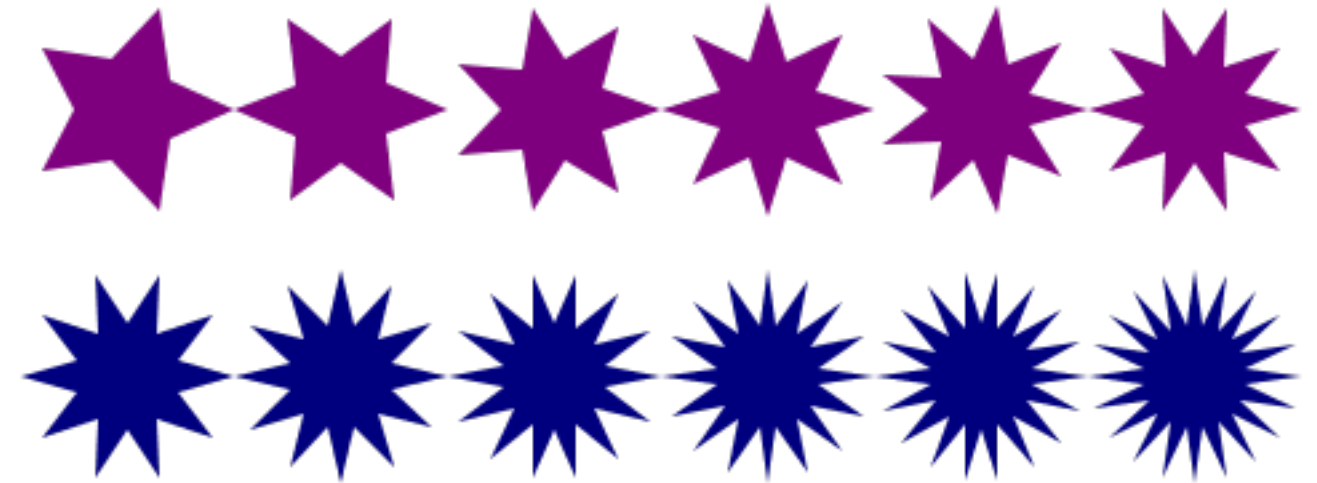
    "github.com/ajstarks/svgo"
)

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 (
    "github.com/ajstarks/svgo"
    "math"
    "os"
)

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

func polar(cx, cy int, r, t float64) (int, int) {
    return cx + int(r*math.Cos(t)), cy + int(r*math.Sin(t))
}

func star(x, y, n int, inner, outer float64, style string) {
    xv, yv, t := make([]int, n*2), make([]int, n*2), math.Pi/float64(n)
    for i := 0; i < n*2; i++ {
        if i%2 == 0 {
            xv[i], yv[i] = polar(0, 0, outer, t*float64(i))
        } else {
            xv[i], yv[i] = polar(0, 0, inner, t*float64(i))
        }
    }
    canvas.TranslateRotate(x, y, 54)
    canvas.Polygon(xv, yv, style)
    canvas.Gend()
}

func aline(x, y int, r, a1, a2 float64) {
    x1, y1 := polar(x, y, r, a1)
    x2, y2 := polar(x, y, r, a2)
    canvas.Line(x1, y1, x2, y2, "stroke:maroon;stroke-width:10")
}

func main() {
    x, y, p4, r := width/2, height/2, math.Pi/4, 65.0
    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, canvas.RGB(240, 240, 240))
    canvas.Circle(x, y, width/2, canvas.RGB(255, 255, 255))
    star(x, y, 5, 90, 240, canvas.RGB(200, 200, 200))
    aline(x, y, r, p4, 5*p4)
    aline(x, y, r, 3*p4, 7*p4)
    canvas.End()
}

```



```

package main

import (
    "fmt"
    "os"

    "github.com/ajstarks/svgo"
)

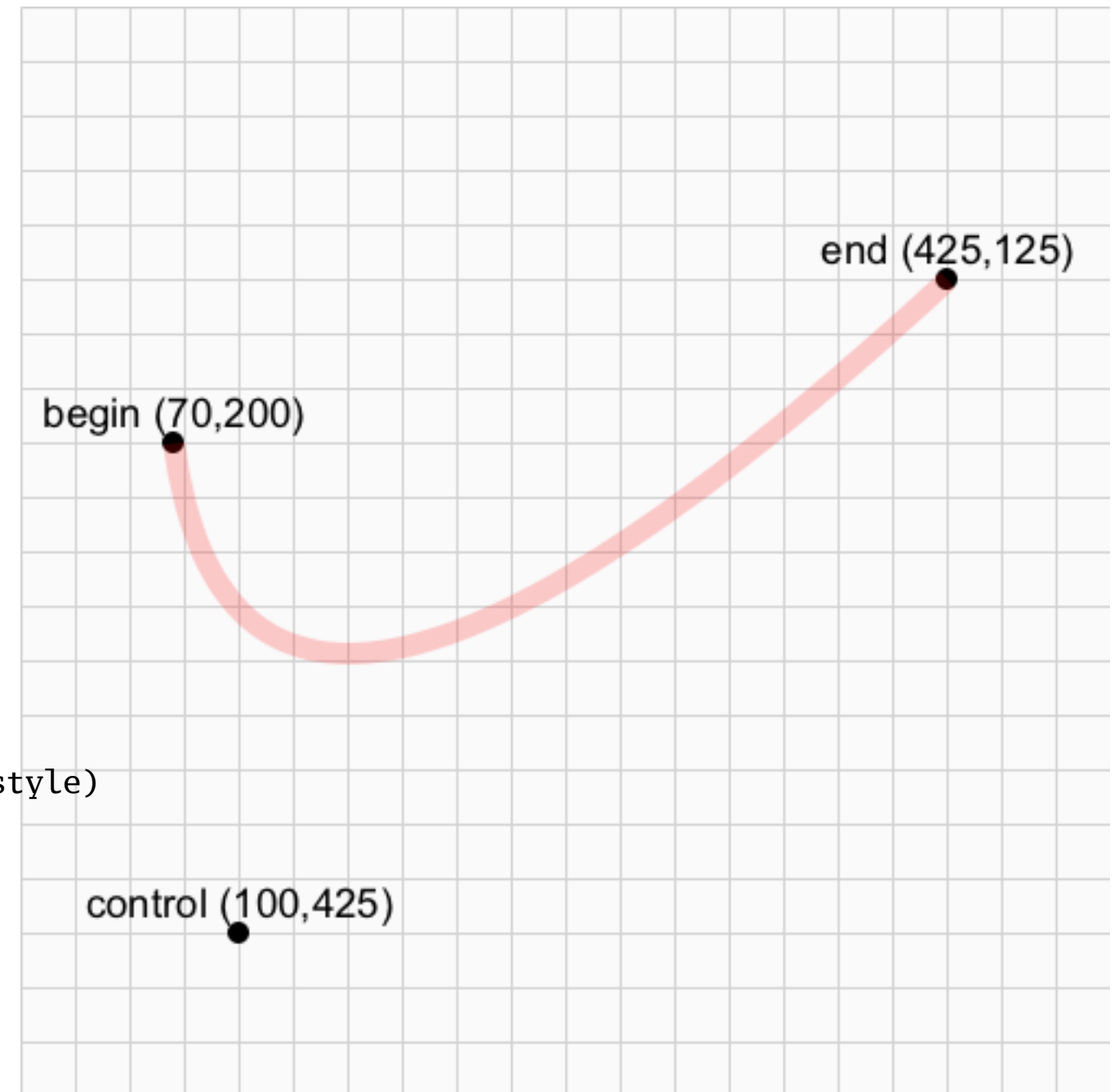
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

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"
)

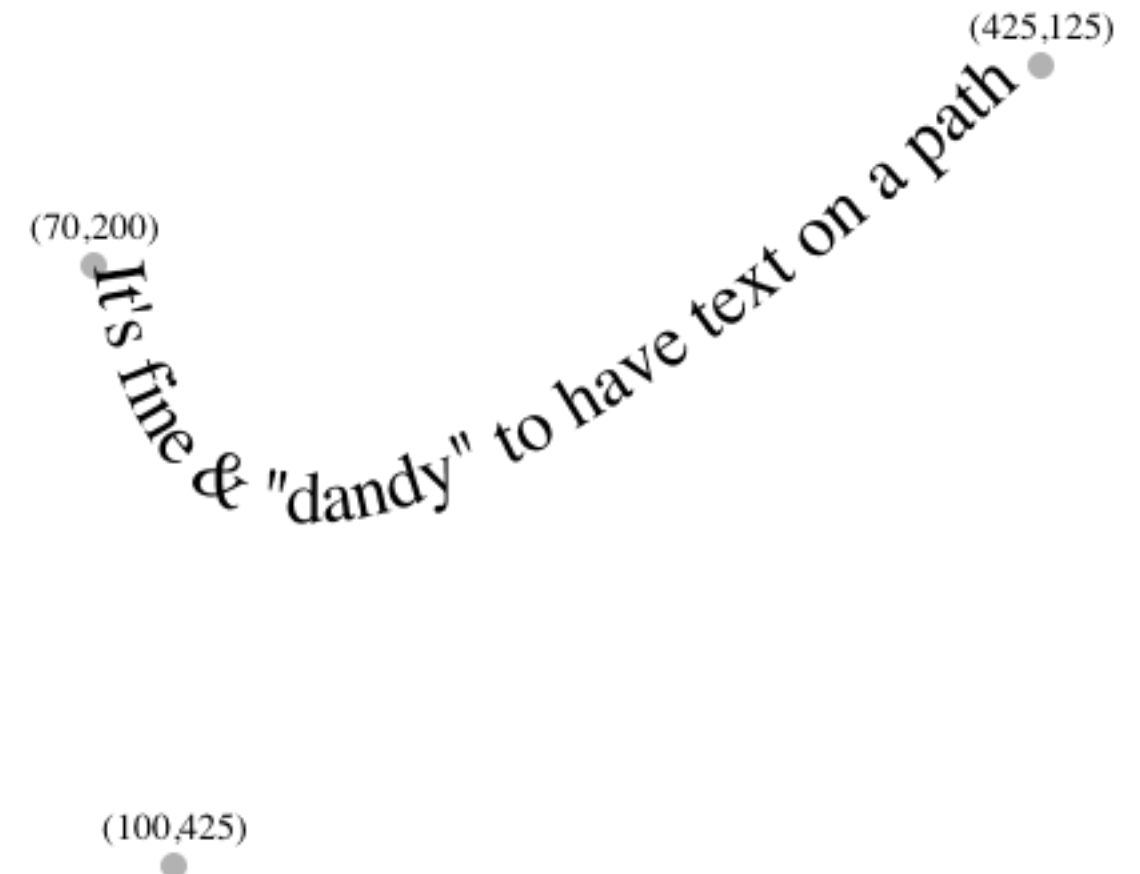
var (
    canvas = svg.New(os.Stdout)
    width  = 500
    height = 500
)

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()  
}
```

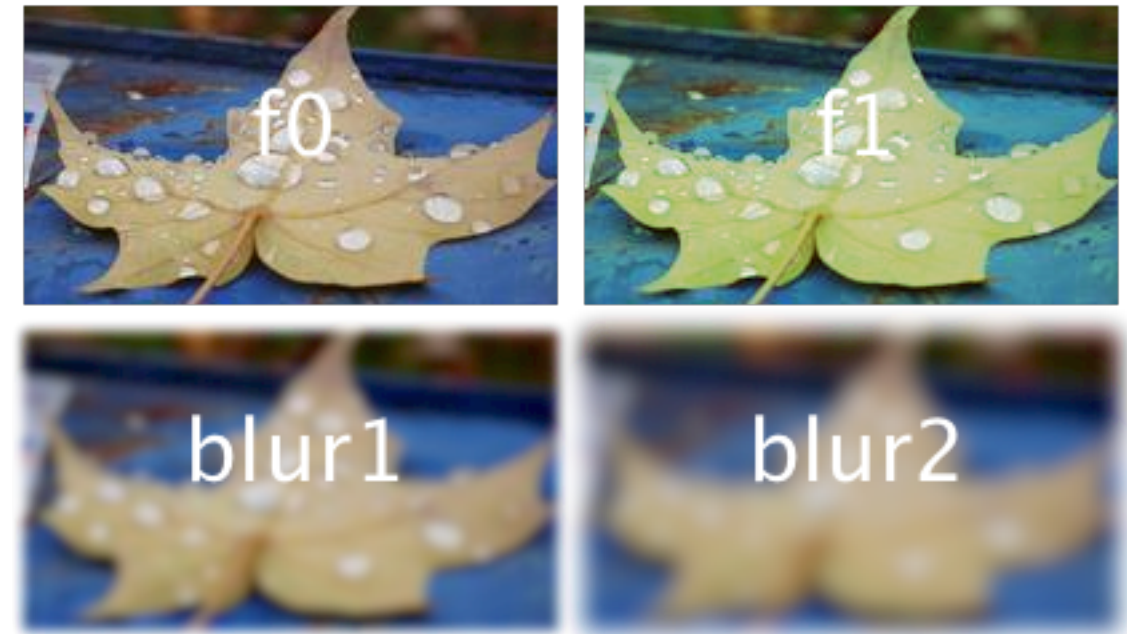


```

package main

import (
    "fmt"
    "github.com/ajstarks/svgo"
    "os"
)
var canvas = svgo.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"

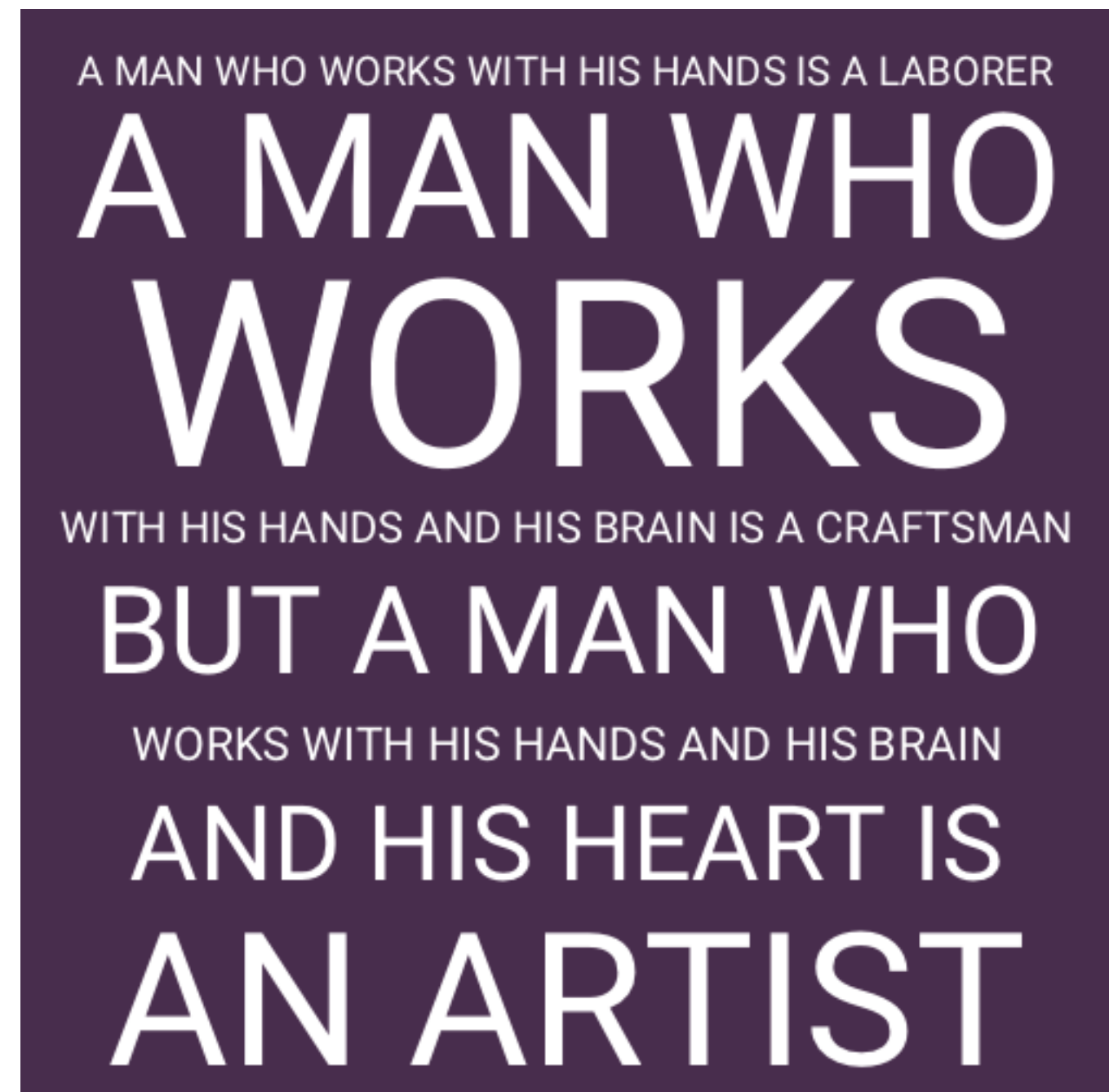
    "github.com/ajstarks/svgo"
)

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()
}

```



```

package main

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

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

func main() {

    blues := "stroke:blue"
    reds  := "stroke:red"
    greens := "stroke:green"
    organges := "stroke:orange"

    canvas.Start(width, height)
    canvas.Rect(0, 0, width, height, "fill:white")

    canvas.Gstyle("fill:none;stroke-opacity:0.5;stroke-width:35;stroke-linecap:round")
    // g
    canvas.Arc(20, 200, 30, 30, 0, false, true, 220, 200, blues)
    canvas.Arc(20, 200, 30, 30, 0, false, false, 220, 200, reds)
    canvas.Line(220, 100, 220, 300, greens)
    canvas.Arc(20, 320, 30, 30, 0, false, false, 220, 300, organges)
    // o
    canvas.Arc(280, 200, 30, 30, 0, false, true, 480, 200, reds)
    canvas.Arc(280, 200, 30, 30, 0, false, false, 480, 200, blues)
    canvas.Gend()
    canvas.End()
}

```

