

# Векторные иконки:

эволюция, анатомия, патофизиология и хирургия.

Михаил Горюнов





@Miha-x64




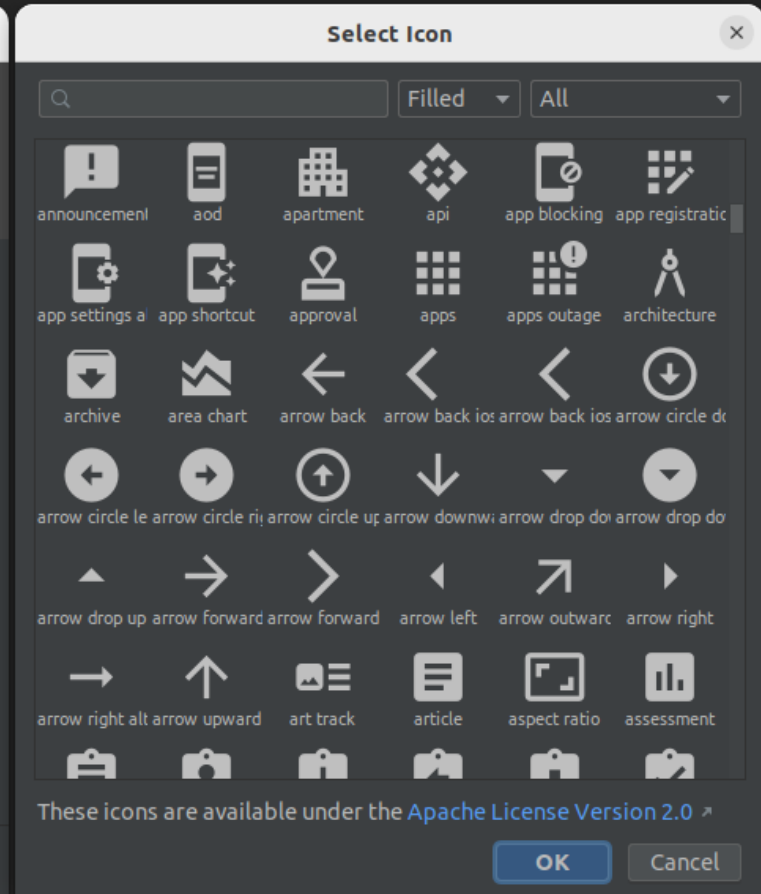
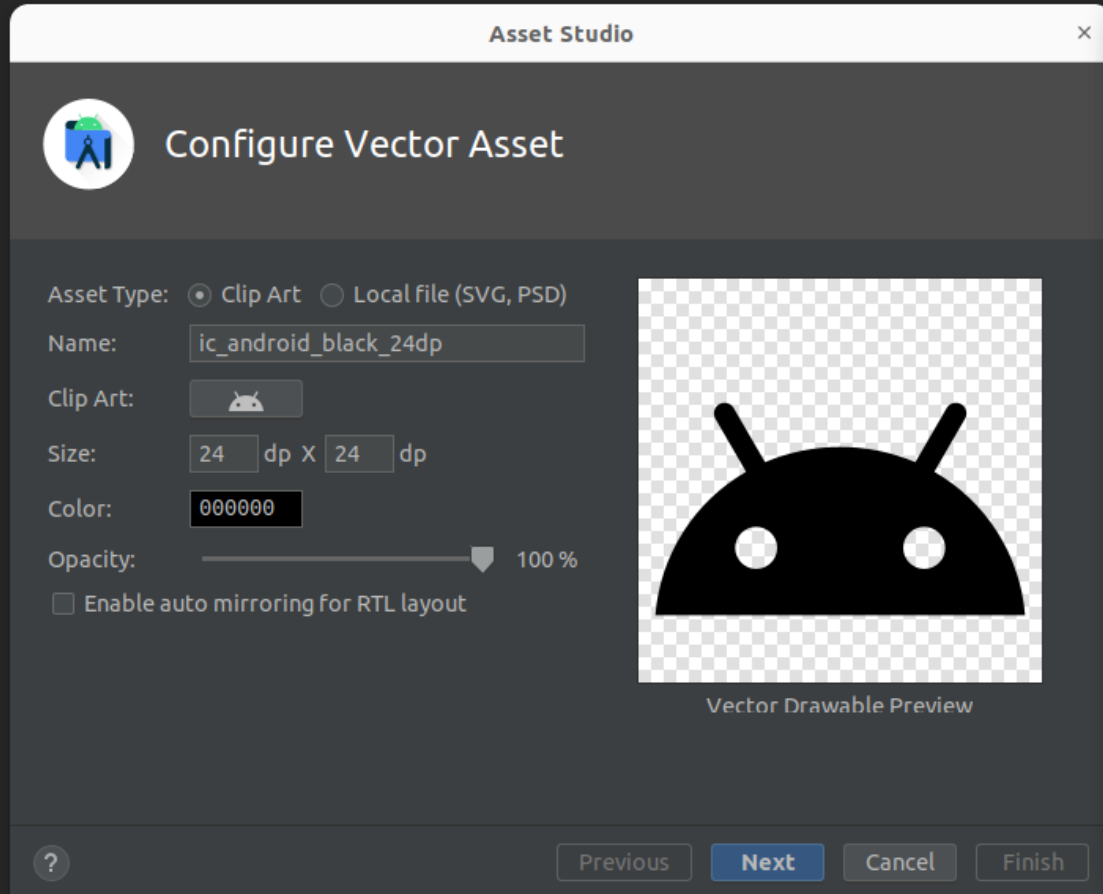
@Harmonizr at android\_ru, spbpeerlab, javanese\_online

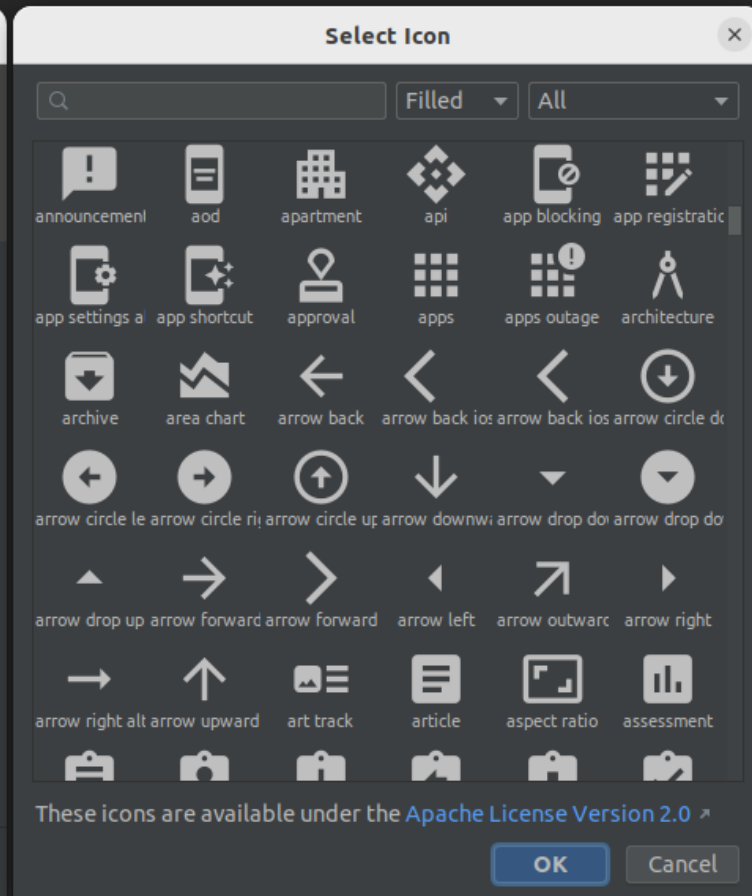
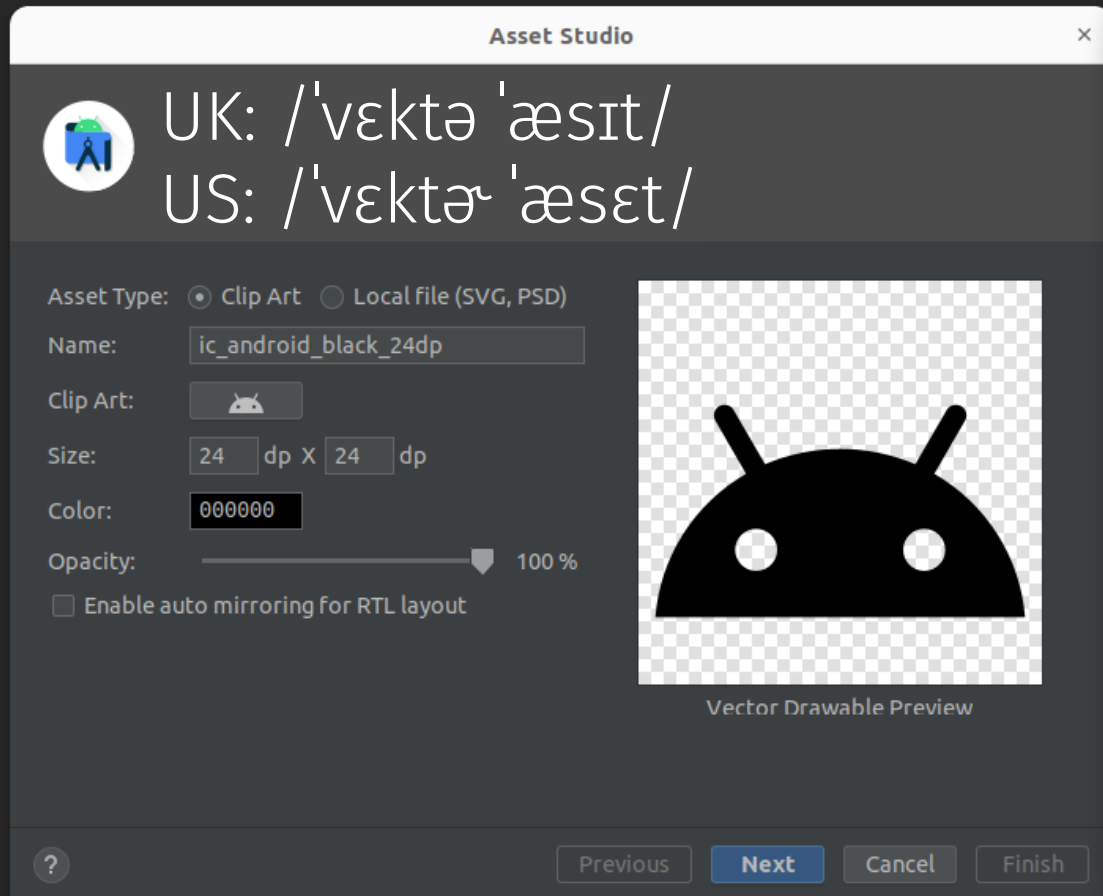
>  drawable-hdpi

>  drawable-xhdpi

>  drawable-xxhdpi

>  drawable-xxxhdpi





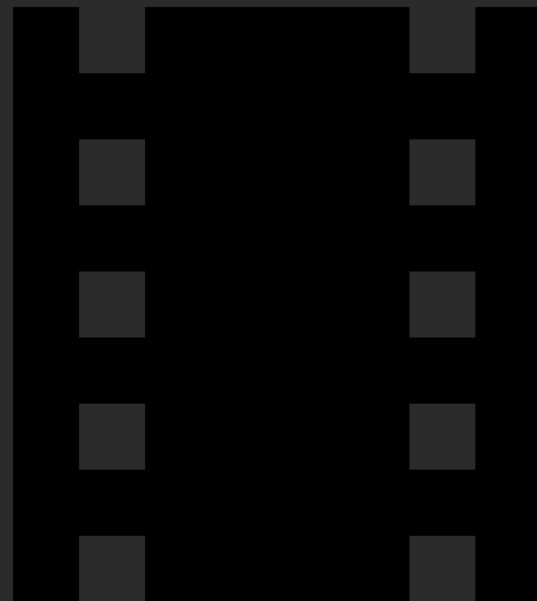
```
<vector
```

```
  xmlns:android="http://schemas.android.com/apk/res/android"  
  android:width="24dp" android:height="24dp"  
  android:viewportWidth="24" android:viewportHeight="24">
```

```
<path
```

```
  android:fillColor="#000000"  
  android:pathData="M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z  
M8,17L6,17v-2h2v2z  
M8,13L6,13v-2h2v2z  
M8,9L6,9L6,7h2v2z  
M18,17h-2v-2h2v2z  
M18,13h-2v-2h2v2z  
M18,9h-2L16,7h2v2z  
" />
```

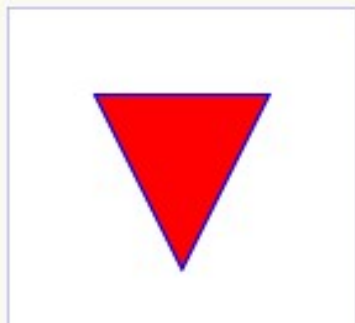
```
</vector>
```





Example triangle01 specifies a path in the shape of a triangle. (The **M** indicates a *moveto*, the **Ls** indicate *linetos*, and the **z** indicates a *closepath*).

```
<?xml version="1.0" standalone="no"?>
<svg width="4cm" height="4cm" viewBox="0 0 400 400"
  xmlns="http://www.w3.org/2000/svg" version="1.1">
  <title>Example triangle01- simple example of a 'path'</title>
  <desc>A path that draws a triangle</desc>
  <rect x="1" y="1" width="398" height="398"
    fill="none" stroke="blue" />
  <path d="M 100 100 L 300 100 L 200 300 z"
    fill="red" stroke="blue" stroke-width="3" />
</svg>
```



Example triangle01 specifies a path in the shape of a triangle. (The **M** indicates a *moveto*, the **Ls** indicate *linetos*, and the **z** indicates a *closepath*). 8

```
<?xml version="1.0" standalone="no"?>
<svg width="4cm" height="4cm" viewBox="0 0 400 400"
      xmlns="http://www.w3.org/2000/svg" version="1.1">
  <title>Example triangle01- simple example of a 'path'</title>
  <desc>A path that draws a triangle</desc>
  <rect x="1" y="1" width="398" height="398"
        fill="none" stroke="blue" />
  <path d="M 100 100 L 300 100 L 200 300 z"
        fill="red" stroke="blue" stroke-width="3" />
</svg>
```



## SVG elements by category

### Animation elements

[<animate>](#), [<animateColor>](#), [<animateMotion>](#), [<animateTransform>](#), [<discard>](#), [<mpath>](#), [<set>](#)

### Basic shapes

[<circle>](#), [<ellipse>](#), [<line>](#), [<polygon>](#), [<polyline>](#), [<rect>](#)

### Container elements

[<a>](#), [<defs>](#), [<q>](#), [<marker>](#), [<mask>](#), [<missing-glyph>](#), [<pattern>](#), [<svg>](#), [<switch>](#), [<symbol>](#)

### Descriptive elements

[<desc>](#), [<metadata>](#), [<title>](#)

### Filter primitive elements

[<feBlend>](#), [<feColorMatrix>](#), [<feComponentTransfer>](#), [<feComposite>](#), [<feConvolveMatrix>](#), [<feDiffuseLighting>](#), [<feDisplacementMap>](#), [<feDropShadow>](#), [<feFlood>](#), [<feFuncA>](#), [<feFuncB>](#), [<feFuncG>](#), [<feFuncR>](#), [<feGaussianBlur>](#), [<feImage>](#), [<feMerge>](#), [<feMergeNode>](#), [<feMorphology>](#), [<feOffset>](#), [<feSpecularLighting>](#), [<feTile>](#), [<feTurbulence>](#)

### Font elements

[<font>](#), [<font-face>](#), [<font-face-format>](#), [<font-face-name>](#), [<font-face-src>](#), [<font-face-uri>](#), [<hkern>](#), [<vkern>](#)

### Gradient elements

[<linearGradient>](#), [<radialGradient>](#), [<stop>](#)

### Graphics elements

[<circle>](#), [<ellipse>](#), [<image>](#), [<line>](#), [<path>](#), [<polygon>](#), [<polyline>](#), [<rect>](#), [<text>](#), [<use>](#)

### Graphics referencing elements

[<use>](#)

### Light source elements

[<feDistantLight>](#), [<fePointLight>](#), [<feSpotLight>](#)

### Never-rendered elements

[<clipPath>](#), [<defs>](#), [<hatch>](#), [<linearGradient>](#), [<marker>](#), [<mask>](#), [<metadata>](#), [<pattern>](#), [<radialGradient>](#), [<script>](#), [<style>](#), [<symbol>](#), [<title>](#)

### Paint server elements

[<hatch>](#), [<linearGradient>](#), [<pattern>](#), [<radialGradient>](#), [<solidcolor>](#)

### Renderable elements

[<a>](#), [<circle>](#), [<ellipse>](#), [<foreignObject>](#), [<q>](#), [<image>](#), [<line>](#), [<path>](#), [<polygon>](#), [<polyline>](#), [<rect>](#), [<svg>](#), [<switch>](#), [<symbol>](#), [<text>](#), [<textPath>](#), [<tspan>](#), [<use>](#)

### Shape elements

[<circle>](#), [<ellipse>](#), [<line>](#), [<path>](#), [<polygon>](#), [<polyline>](#), [<rect>](#)

### Structural elements

[<defs>](#), [<q>](#), [<svg>](#), [<symbol>](#), [<use>](#)

### Text content elements

[<altGlyph>](#), [<altGlyphDef>](#), [<altGlyphItem>](#), [<glyph>](#), [<glyphRef>](#), [<textPath>](#), [<text>](#), [<tref>](#), [<tspan>](#)

### Text content child elements

[<altGlyph>](#), [<textPath>](#), [<tref>](#), [<tspan>](#)

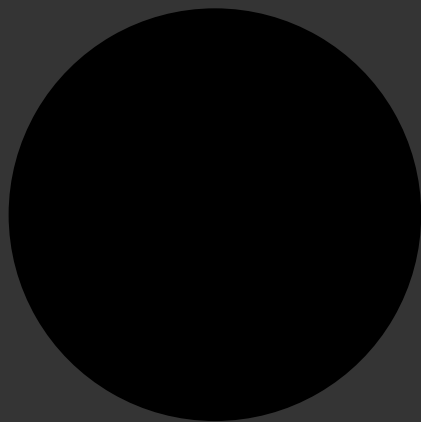
### Uncategorized elements

[<clipPath>](#), [<cursor>](#), [<filter>](#), [<foreignObject>](#), [<hatchpath>](#), [<script>](#), [<style>](#), [<view>](#)



```
<svg viewBox="0 0 100 100" xmlns="http://www.w3.org/2000/svg">
  <!-- A link around a shape -->
  <a href="/docs/Web/SVG/Element/circle">
    <circle cx="50" cy="40" r="35"/>
  </a>

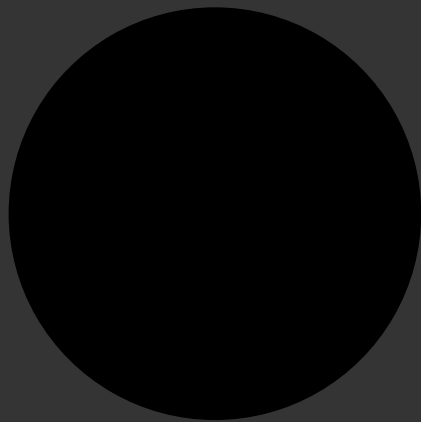
  <!-- A link around a text -->
  <a href="/docs/Web/SVG/Element/text">
    <text x="50" y="90" text-anchor="middle">
      &lt;circle&gt;
    </text>
  </a>
</svg>
```



<circle>

```
<svg viewBox="0 0 100 100" xmlns="http://www.w3.org/2000/svg">
  <!-- A link around a shape -->
  <a href="/docs/Web/SVG/Element/circle">
    <circle cx="50" cy="40" r="35"/>
  </a>

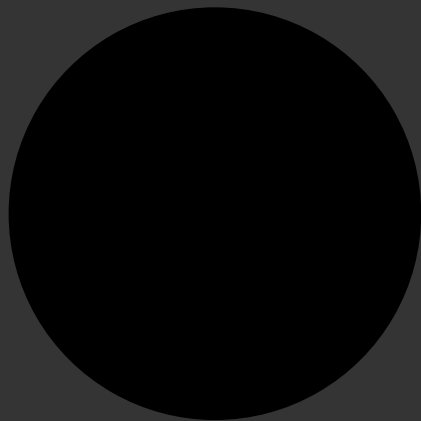
  <!-- A link around a text -->
  <a href="/docs/Web/SVG/Element/text">
    <text x="50" y="90" text-anchor="middle">
      &lt;circle&gt;
    </text>
  </a>
</svg>
```



<circle>

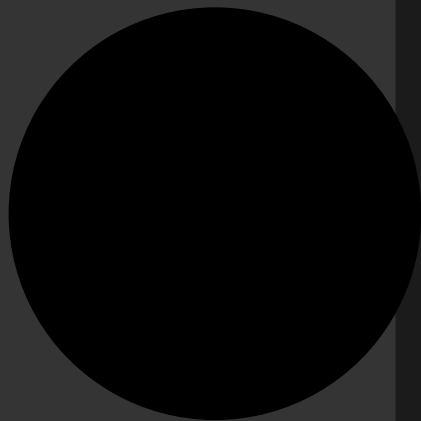
```
<svg viewBox="0 0 100 100" xmlns="http://www.w3.org/2000/svg">
  <!-- A link around a shape -->
  <a href="/docs/Web/SVG/Element/circle">
    <circle cx="50" cy="40" r="35"/>
  </a>

  <!-- A link around a text -->
  <a href="/docs/Web/SVG/Element/text">
    <text x="50" y="90" text-anchor="middle">
      &lt;circle&gt;
    </text>
  </a>
</svg>
```



<circle>

```
@namespace svg url(http://www.w3.org/2000/svg);  
/* Necessary to select only SVG <a> elements, and not also HTML's.  
   See warning below */  
  
svg|a:link, svg|a:visited {  
    cursor: pointer;  
}  
  
svg|a text,  
text svg|a {  
    fill: blue; /* Even for text, SVG uses fill over color */  
    text-decoration: underline;  
}  
  
svg|a:hover, svg|a:active {  
    outline: dotted 1px blue;  
}
```



<circle>

## SVG left the chat

```
<vector
```

```
  xmlns:android="http  
  android:width="24dp  
  android:viewportWidth,
```

```
<path
```

```
  android:fillColor="@android:color/black"
```

```
  android:pathData="
```

```
M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
```

```
M8,17L6,17v-2h2v2z
```

```
M8,13L6,13v-2h2v2z
```

```
M8,9L6,9L6,7h2v2z
```

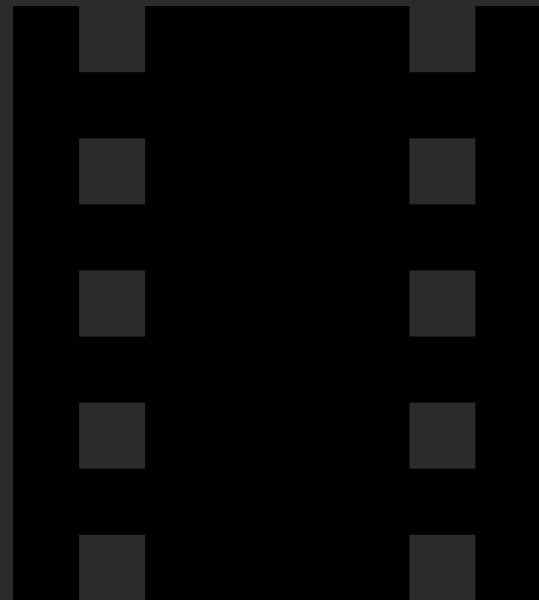
```
M18,17h-2v-2h2v2z
```

```
M18,13h-2v-2h2v2z
```

```
M18,9h-2L16,7h2v2z
```

```
" />
```

```
</vector>
```

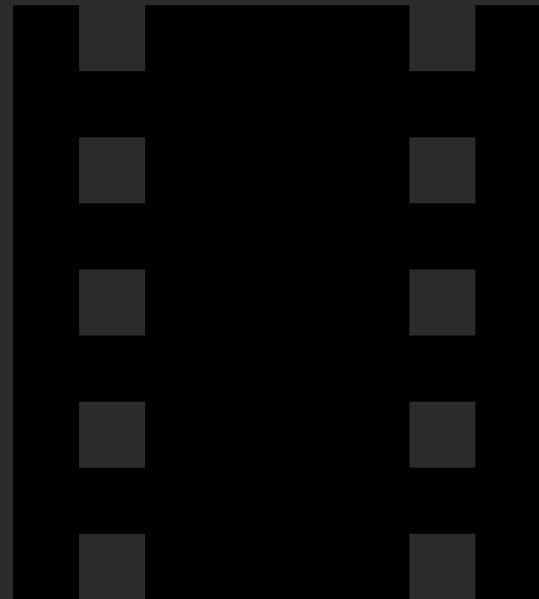


Android Resources joined the chat

```
<vector  
  xmlns:android="http  
  android:width="24dp  
  android:viewportWidth,
```

```
<path  
  android:fillColor="@android:color/black"  
  android:pathData="@string/movie_path" />
```

```
</vector>
```





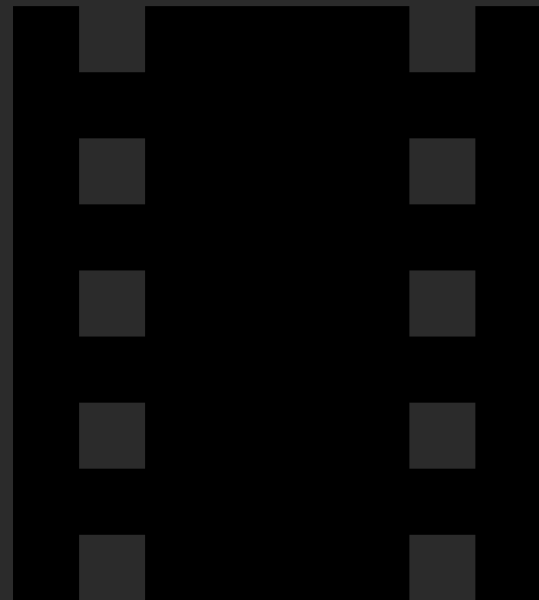
android.graphics.\*

java.awt.\*

Sk\*



```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">
  <path d="...
    android.graphics.Path
    SkPath
    java.awt.geom.Path2D
    android:pathData="
      M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
      M8,17L6,17v-2h2v2z
      M8,13L6,13v-2h2v2z
      M8,9L6,9L6,7h2v2z
      M18,17h-2v-2h2v2z
      M18,13h-2v-2h2v2z
      M18,9h-2L16,7h2v2z
    " />
</vector>
```



## Translations of path

## Noun



















Frequency ?

путь	way, path, road, route, pathway, track	■■■
контур	circuit, contour, outline, path, profile, line	■■■
траектория	trajectory, path, locus	■■■
дорожка	track, path, lane, walkway, pathway, runner	■■■
тропа	trail, path, pathway, track, walk, railway	■■■
тракт	tract, path, canal, fascicle	■■■
тропинка	path, footpath, trail, pathway, lane, track	■■■
курс	course, policy, path, heading, class, tack	■■■
стезя	path	■
ветвь	branch, ramification, arm, leg, path, limb	■
аллея	alley, avenue, walkway, lane, alleyway, path	■
линия поведения	policy, course, path	■
пучок	sheaf, bundle, bunch, tuft, bun, path	■
беговая дорожка	running track, racetrack, tread, track, running path, path	■
линия действия	path, course	■
пробег частицы	path	■
гаревая дорожка	path, cinder-track, cinder-path	■
ветвь обмотки	path	■

## Translations of path

## Noun

Frequency 

путь	way, path, road, route, pathway, track	
<b>контур</b>	<b>circuit, contour, outline, path, profile, line</b>	
траектория	trajectory, path, locus	
дорожка	track, path, lane, walkway, pathway, runner	
тропа	trail, path, pathway, track, walk, railway	
тракт	tract, path, canal, fascicle	
тропинка	path, footpath, trail, pathway, lane, track	
курс	course, policy, path, heading, class, tack	
стезя	path	
ветвь	branch, ramification, arm, leg, path, limb	
аллея	alley, avenue, walkway, lane, alleyway, path	
линия поведения	policy, course, path	
пучок	sheaf, bundle, bunch, tuft, bun, path	
беговая дорожка	running track, racetrack, tread, track, running path, path	
линия действия	path, course	
пробег частицы	path	
гаревая дорожка	path, cinder-track, cinder-path	
ветвь обмотки	path	

```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">

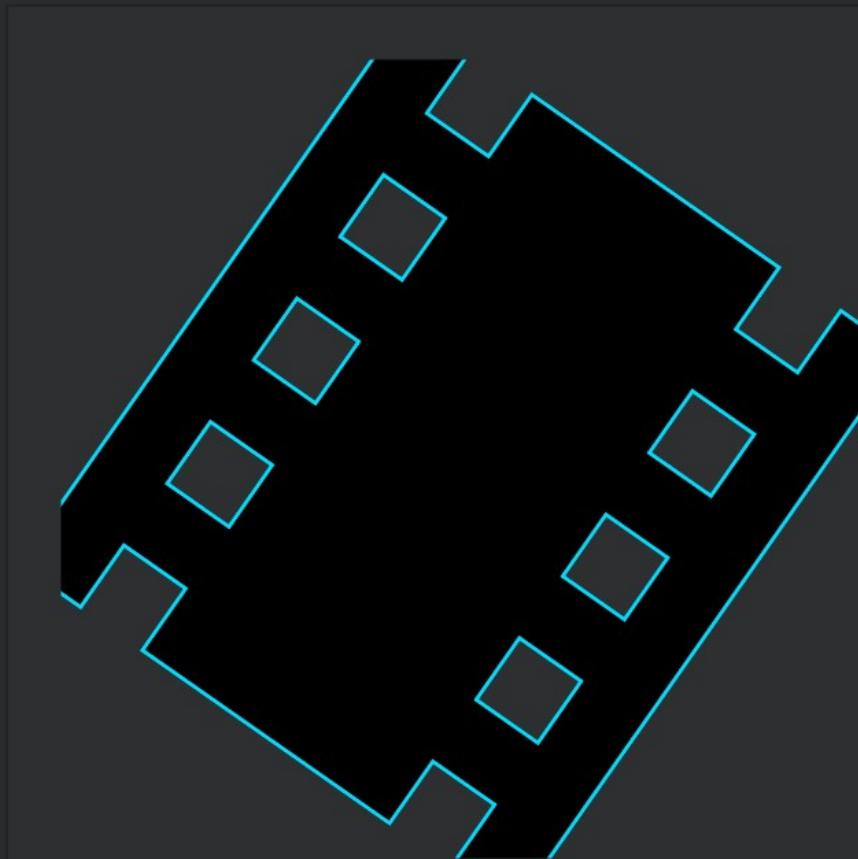
  <clip-path
    android:pathData="M1.4 1.4 1.4 22.6 22.6 22.6 22.6 1.4" />

  <group android:rotation="35" android:pivotX="12" android:pivotY="12">

    <path
      android:fillColor="#000"
      android:strokeColor="@android:color/holo_blue_bright"
      android:strokeWidth=".1"
      android:pathData="
        M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
        M8,17L6,17v-2h2v2z
        M8,13L6,13v-2h2v2z
        M8,9L6,9L6,7h2v2z
        M18,17h-2v-2h2v2z
        M18,13h-2v-2h2v2z
        M18,9h-2L16,7h2v2z
        " />

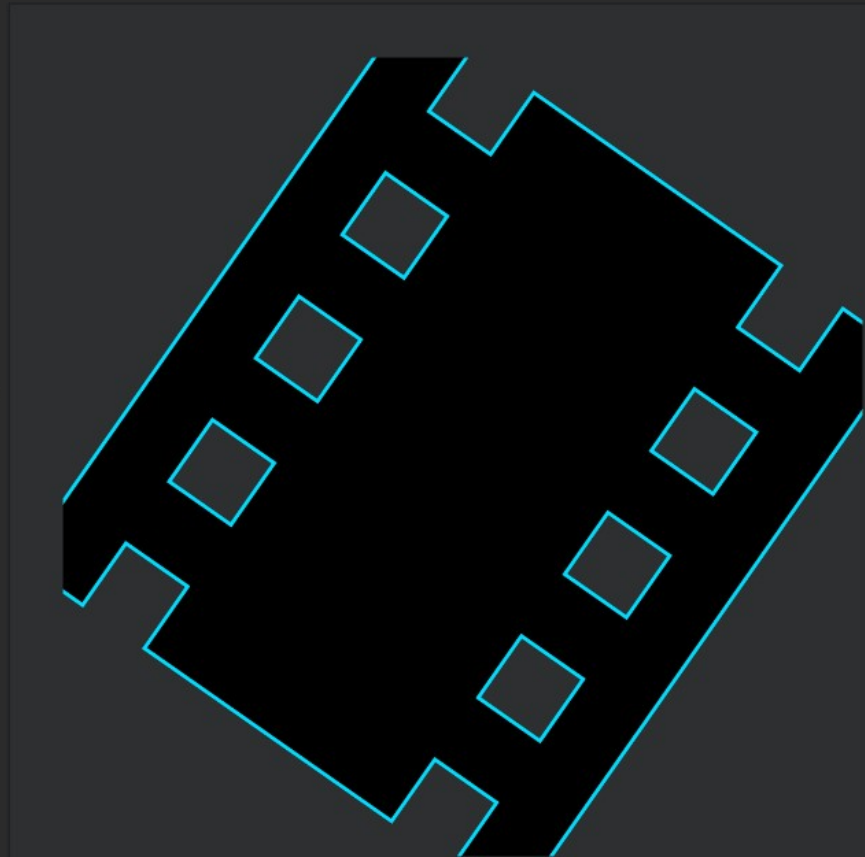
  </group>

</vector>
```



```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">
  <clip-path
    android:pathData="M1.4 1.4 1.4 22.6 22.6 22.6 22.6 1.4" />
  <group android:rotation="35" android:pivotX="12" android:pivotY="12">
    <path
      android:fillColor="#000"
      android:strokeColor="@android:color/holo_blue_bright"
      android:strokeWidth=".1"
      android:pathData="
        M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
        M8,17L6,17v-2h2v2z
        M8,13L6,13v-2h2v2z
        M8,9L6,9L6,7h2v2z
        M18,17h-2v-2h2v2z
        M18,13h-2v-2h2v2z
        M18,9h-2L16,7h2v2z
        " />
  </group>
</vector>
```

viewport="0 0 24 24"



```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">

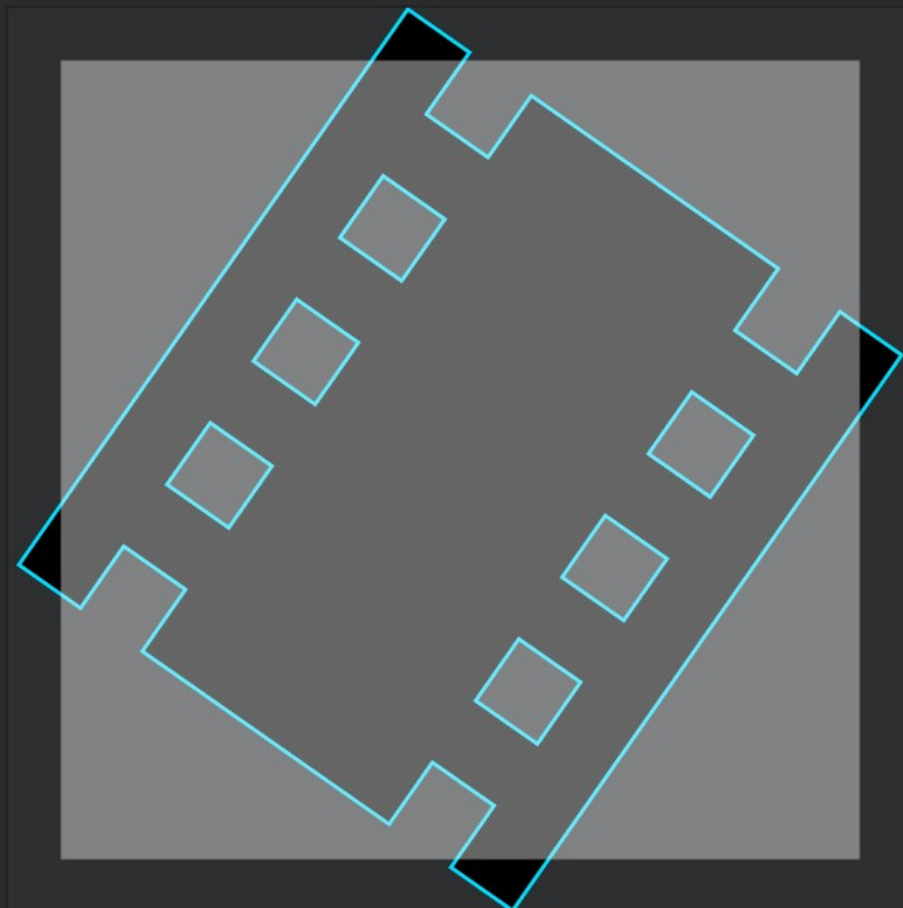
  <clip-path
    android:pathData="M1.4 1.4 1.4 22.6 22.6 22.6 22.6 1.4" />

  <group android:rotation="35" android:pivotX="12" android:pivotY="12">

    <path
      android:fillColor="#000"
      android:strokeColor="@android:color/holo_blue_bright"
      android:strokeWidth=".1"
      android:pathData="
        M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
        M8,17L6,17v-2h2v2z
        M8,13L6,13v-2h2v2z
        M8,9L6,9L6,7h2v2z
        M18,17h-2v-2h2v2z
        M18,13h-2v-2h2v2z
        M18,9h-2L16,7h2v2z
        " />

  </group>

</vector>
```



```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">
```

```
<clip-path
  android:pathData="M1.4 1.4 1.4 22.6 22.6 22.6 22.6 1.4" />
```

```
<android.graphics.Canvas#clipPath(android.graphics.Path)
SkCanvas::clipPath(const SkPath &path, SkClipOp op)
java.awt.Graphics2D#clip(java.awt.Shape)
```

```
  android:strokeWidth="1"
  android:pathData="
M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
M8,17L6,17v-2h2v2z
M8,13L6,13v-2h2v2z
M8,9L6,9L6,7h2v2z
M18,17h-2v-2h2v2z
M18,13h-2v-2h2v2z
M18,9h-2L16,7h2v2z
" />
```

```
</group>
```

```
</vector>
```

```
<clipPath>
  <path d=" ...
```



```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">

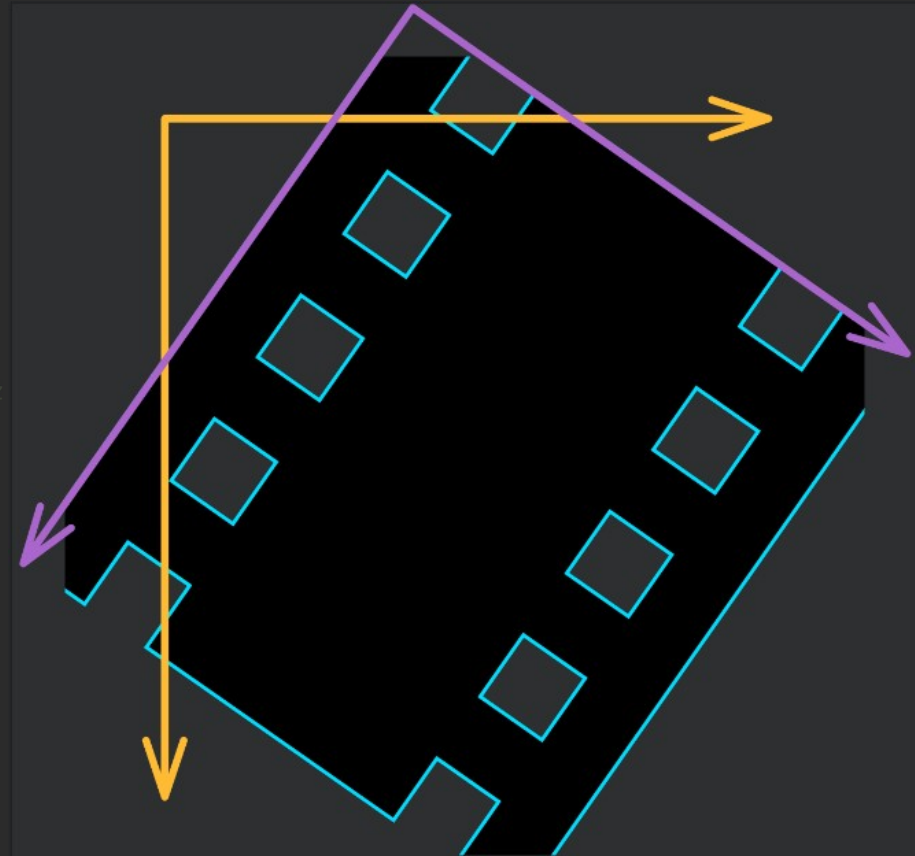
  <clip-path
    android:pathData="M1.4 1.4 1.4 22.6 22.6 22.6 22.6 1.4" />

  <group android:rotation="35" android:pivotX="12" android:pivotY="12">

    <path
      android:fillColor="#000"
      android:strokeColor="@android:color/holo_blue_bright"
      android:strokeWidth=".1"
      android:pathData="
        M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
        M8,17L6,17v-2h2v2z
        M8,13L6,13v-2h2v2z
        M8,9L6,9L6,7h2v2z
        M18,17h-2v-2h2v2z
        M18,13h-2v-2h2v2z
        M18,9h-2L16,7h2v2z
        " />

  </group>

</vector>
```



```

<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">

  <clip-path
    android:pathData="M1,4 1,4 22,6 22,6 22,6 22,6 1,4" />

  <group android:rotation="35" android:pivotX="12" android:pivotY="12">

```

android.graphics.Matrix  
 SkMatrix  
 java.awt.geom.AffineTransform

```

    M8,17L6,17v-2h2v2z
    M8,13L6,13v-2h2v2z
    M8,9L6,9L6,7h2v2z
    M18,17h-2v-2h2v2z
    M18,13h-2v-2h2v2z
    M18,9h-2L16,7h2v2z
  " />

```

```

</group>

```

```

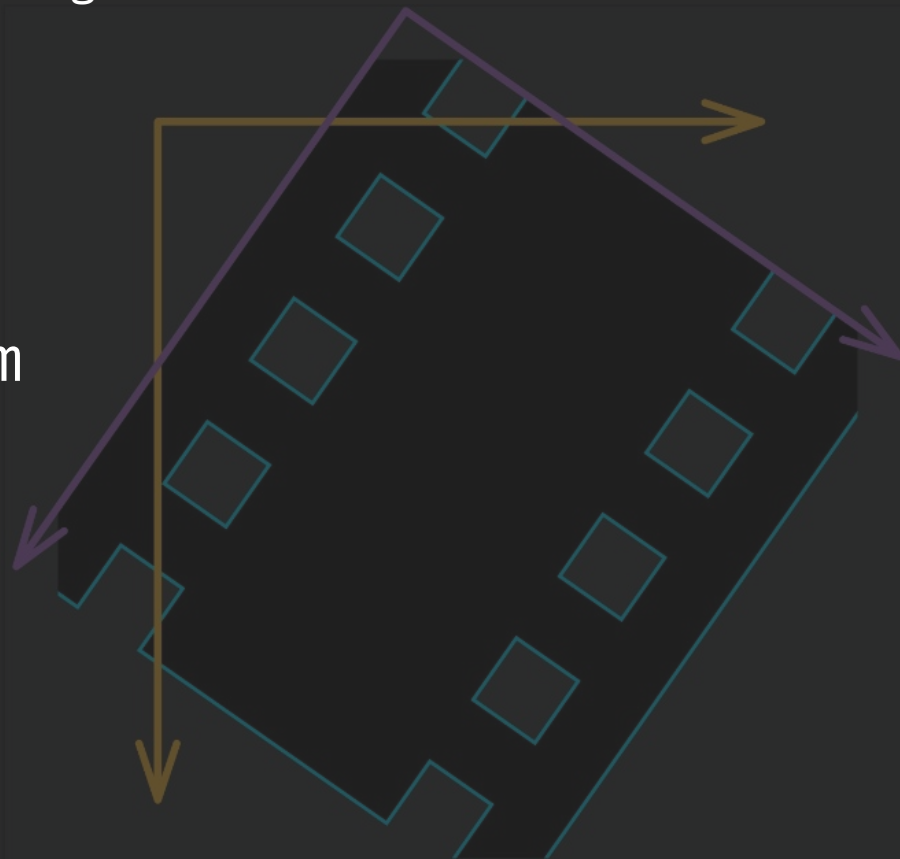
</vector>

```

```

<g transform="...">

```



```
<vector
  xmlns:android="http://schemas.android.com/apk/res/android"
  android:width="24dp" android:height="24dp"
  android:viewportWidth="24" android:viewportHeight="24">

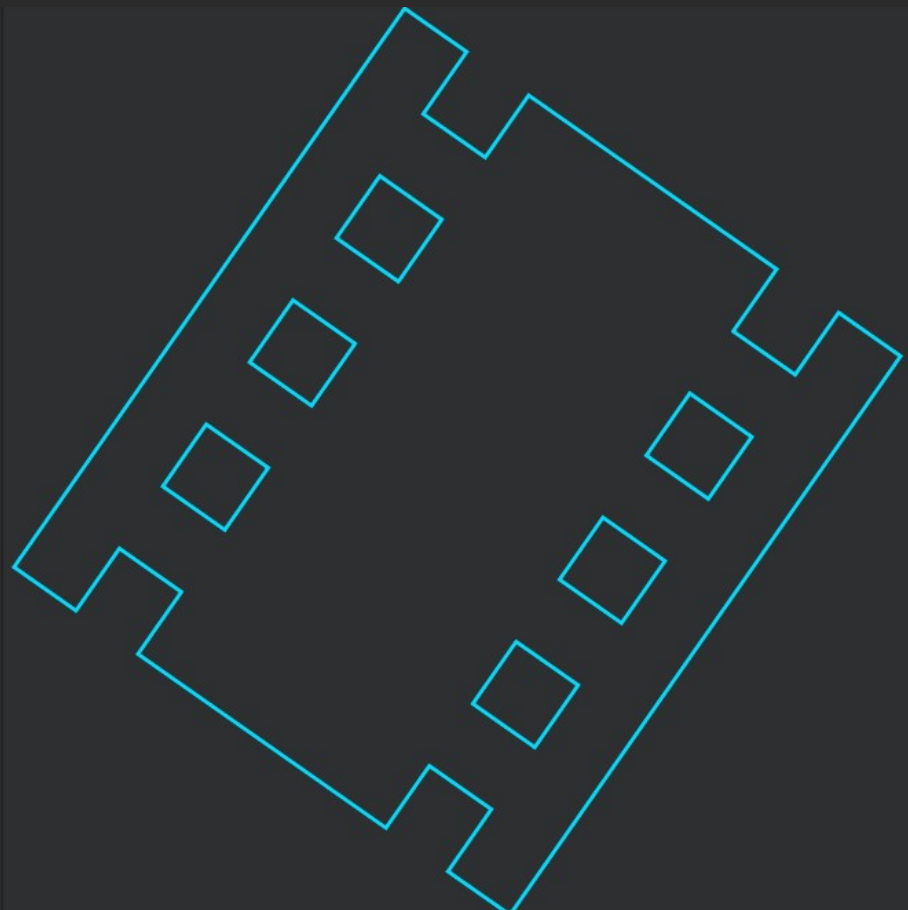
  <clip-path
    android:pathData="M1.4 1.4 1.4 22.6 22.6 22.6 22.6 1.4" />

  <group android:rotation="35" android:pivotX="12" android:pivotY="12">

    <path
      android:fillColor="#000"
      android:strokeColor="@android:color/holo_blue_bright"
      android:strokeWidth=".1"
      android:pathData="
        M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2v2h8v-2h2v2h2L20,3h-2z
        M8,17L6,17v-2h2v2z
        M8,13L6,13v-2h2v2z
        M8,9L6,9L6,7h2v2z
        M18,17h-2v-2h2v2z
        M18,13h-2v-2h2v2z
        M18,9h-2L16,7h2v2z
        " />

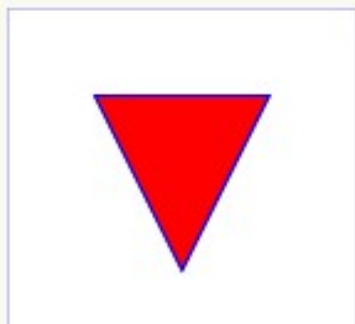
  </group>

</vector>
```



Example triangle01 specifies a path in the shape of a triangle. (The **M** indicates a *moveto*, the **Ls** indicate *linetos*, and the **z** indicates a *closepath*).

```
<?xml version="1.0" standalone="no"?>
<svg width="4cm" height="4cm" viewBox="0 0 400 400"
  xmlns="http://www.w3.org/2000/svg" version="1.1">
  <title>Example triangle01- simple example of a 'path'</title>
  <desc>A path that draws a triangle</desc>
  <rect x="1" y="1" width="398" height="398"
    fill="none" stroke="blue" />
  <path d="M 100 100 L 300 100 L 200 300 z"
    fill="red" stroke="blue" stroke-width="3" />
</svg>
```



Example triangle01 specifies a path in the shape of a triangle. (The **M** indicates a *moveto*, the **Ls** indicate *linetos*, and the **z** indicates a *closepath*).

```
<?xml version="1.0" standalone="no"?>
<svg width="4cm" height="4cm" viewBox="0 0 400 400"
  xmlns="http://www.w3.org/2000/svg" version="1.1">
  <title>Example triangle01- simple example of a 'path'</title>
  <desc>A path that draws a triangle</desc>
  <rect x="1" y="1" width="398" height="398"
    fill="none" stroke="blue" />
  <path d="M 100 100 L 300 100 L 200 300 z"
    fill="red" stroke="blue" stroke-width="3" />
</svg>
```



M x, y



```
path.moveTo(x, y)  
path2D.moveTo(x, y)
```

M x, y



$Mx, y$



[https://commons.wikimedia.org/wiki/File:Bright\\_anime\\_eyes.svg](https://commons.wikimedia.org/wiki/File:Bright_anime_eyes.svg)  
cropped by Hikin1987 from Wikipe-tan drawn by ja:利用者 :Kasuga  
[https://commons.wikimedia.org/wiki/File:Wikipe-tan\\_frontview.png](https://commons.wikimedia.org/wiki/File:Wikipe-tan_frontview.png)

m  $\Delta x$ ,  $\Delta y$



(prevX+ $\Delta x$ , prevY+ $\Delta y$ )

```
path.rMoveTo(dx, dy)
```

```
path2D.moveTo(currX += x, currY += y)
```

L x, y



```
path.lineTo(x, y)  
path2D.lineTo(x, y)
```

└  $\Delta x, \Delta y$

(prevX +  $\Delta x$ , prevY +  $\Delta y$ )



```
path.rLineTo(dx, dy)
```

```
path2D.lineTo(currX += dx, currY += dy)
```

L  $x_1, y_1$  [ $x_2, y_2$  [ $x_3, y_3 \dots$ ]]  
lineto lineto lineto

M  $x_0, y_0$  [ $x_1, y_1$  [ $x_2, y_2 \dots$ ]]  
moveto lineto lineto

h  $\Delta x$   
l  $\Delta x, 0$

```
path.rLineTo(dx, 0)  
path2D.lineTo(currX += dx, currY)
```

$v \Delta y$   
 $l \theta, \Delta y$

```
path.rLineTo(0, dy)  
path2D.lineTo(currX, currY += dy)
```

# Most useless things of all time



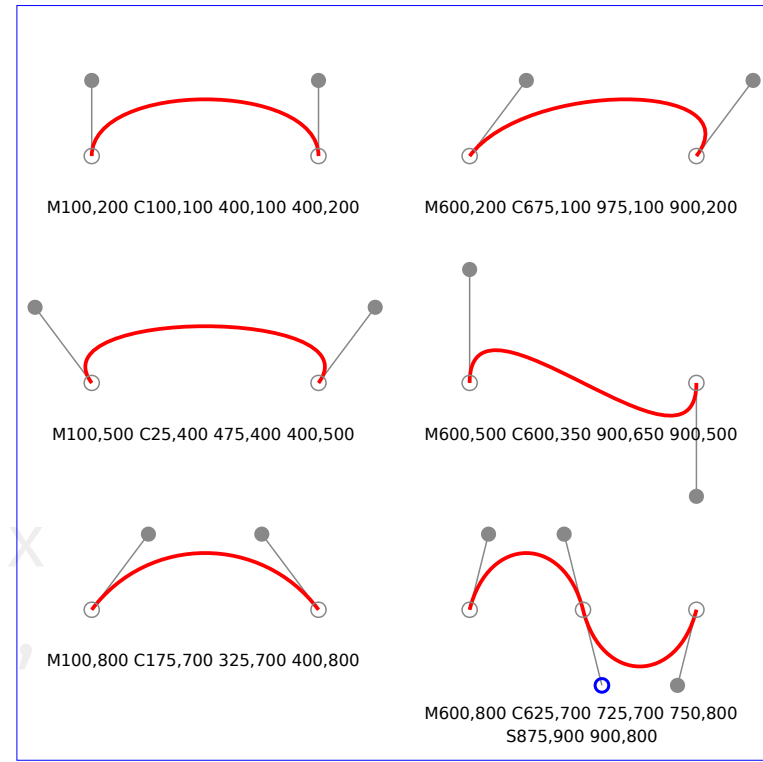
```
H x1 [x2 [x3 ...]]
V y1 [y2 [y3 ...]]
h Δx1 [Δx2 [Δx3 ...]]
v Δy1 [Δy2 [Δy3 ...]]
```



h16 -16 16 -16 16 -16

Cc x1,y1 x2,y2 x,y  
Ss x2,y2 x,y

path.cubicTo(x1, y1, x1, y2, x  
path2D.curveTo(x1, y1, x1, y2,

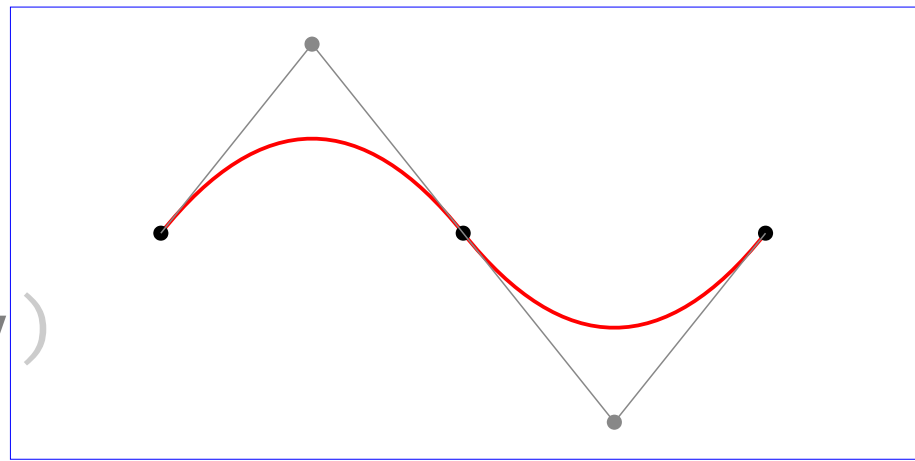


```
Qq x1,y1 x,y
```

```
Tt x,y
```

```
path.quadTo(x1, y1, x, y)
```

```
path2D.quadTo(x1, y1, x, y)
```



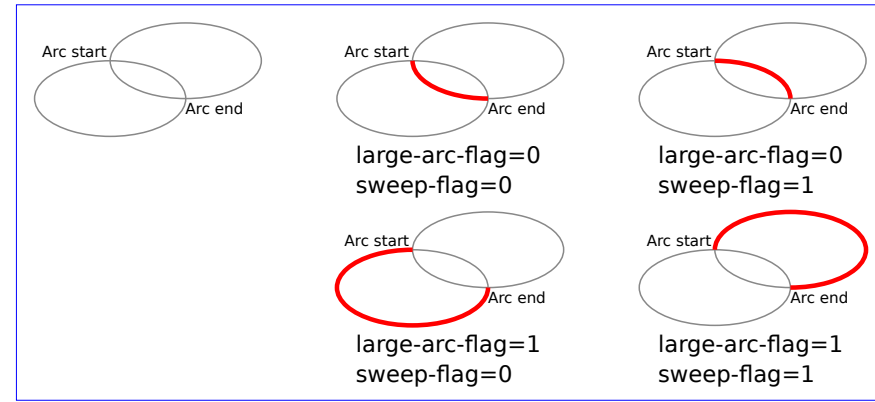
Aa

rx, ry

x-axis-rotation

large-arc-flag, sweep-flag

x, y

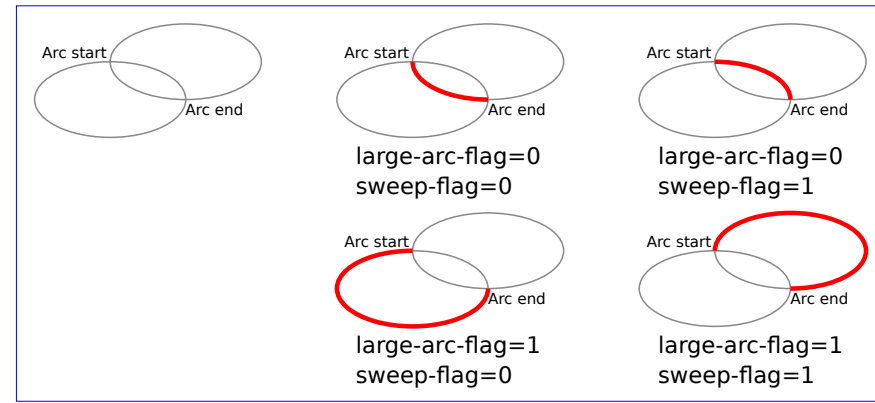


`rx, ry`

`x-axis-rotation: degrees`

`large-arc-flag: bool, sweep-flag: bool`

`x, y`



Aa

45

rx, ry

x-axis-rotation

large-arc-flag, sweep-flag

x, y

path.arcTo(  
 RectF oval,  
 float startAngle,  
 float sweepAngle)

Aa

46

`rx, ry`

`x-axis-rotation`

`large-arc-flag, sweep-flag`

`x, y`

`path.arcTo(`

`RectF oval,`

`float startAngle,`

`float sweepAngle)`

РУССКИЙ

↔ ЛАТЫНЬ

яйцо



ovum



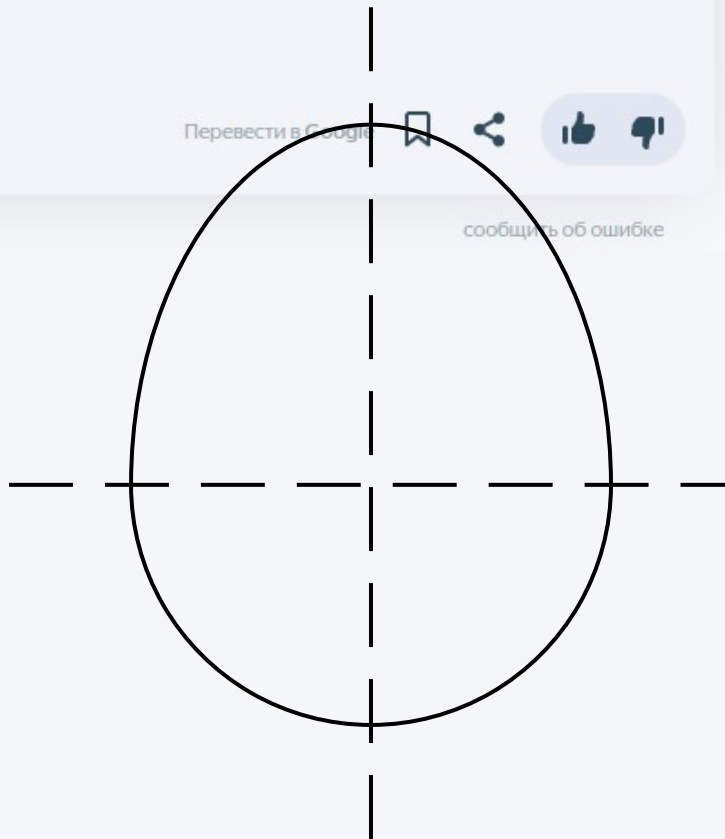
4/10000



Перевести в Союз



сообщить об ошибке



Aa

48

rx, ry

x-axis-rotation

large-arc-flag, sweep-flag

x, y

path.arcTo(  
 RectF oval

~~oval~~ ellipse,  
 float startAngle,

float sweepAngle)

)

```
/** Appends arc to SkPath. Arc added is part of ellipse
bounded by oval, from startAngle through sweepAngle. Both startAngle and
sweepAngle are measured in degrees, where zero degrees is aligned with the
positive x-axis, and positive sweeps extends arc clockwise.
arcTo() adds line connecting SkPath last SkPoint to initial arc SkPoint if forceMoveTo
is false and SkPath is not empty. Otherwise, added contour begins with first point
of arc. Angles greater than -360 and less than 360 are treated modulo 360.
@param oval bounds of ellipse containing arc
@param startAngle starting angle of arc in degrees
@param sweepAngle sweep, in degrees. Positive is clockwise; treated modulo 360
@param forceMoveTo true to start a new contour with arc
@return reference to SkPath
example: https://fiddle.skia.org/c/@Path\_arcTo
*/
```

```
SkPath& arcTo(const SkRect& oval, SkScalar startAngle, SkScalar sweepAngle, bool forceMoveTo);
```

Aa

rx, ry

x-axis-rotation

large-arc-flag, sweep-flag

x, y

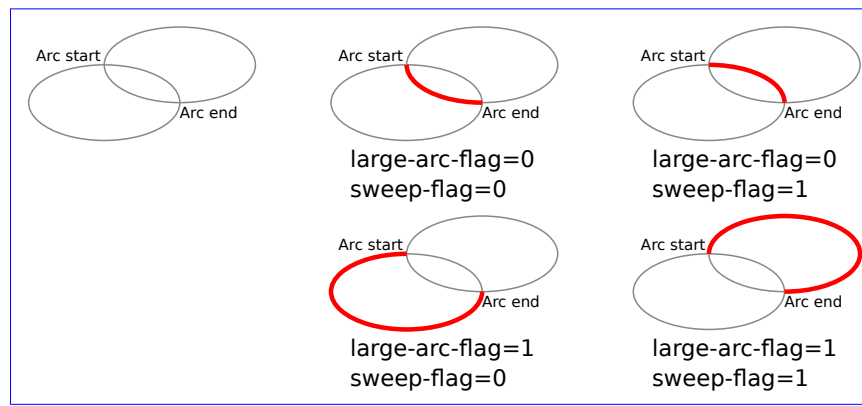
path.arcTo(

RectF oval ellipse,

float startAngle,

float sweepAngle)

path2D.??



Aa

`rx, ry`

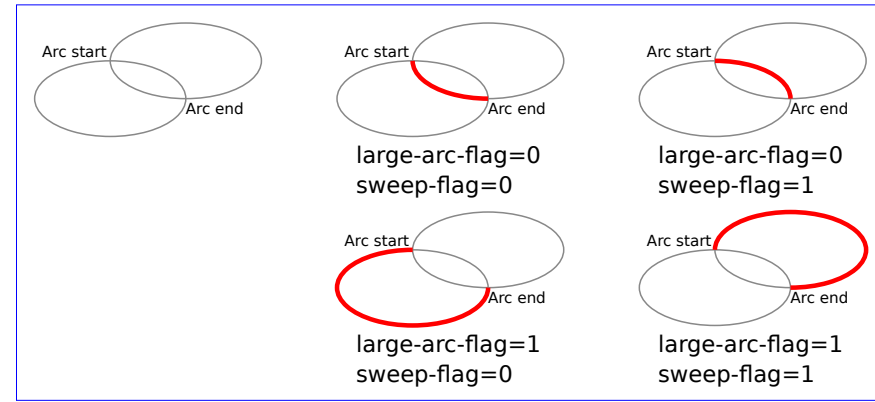
`x-axis-rotation`

`large-arc-flag, sweep-flag`

`x, y`

`path.cubicTo(...), ...`

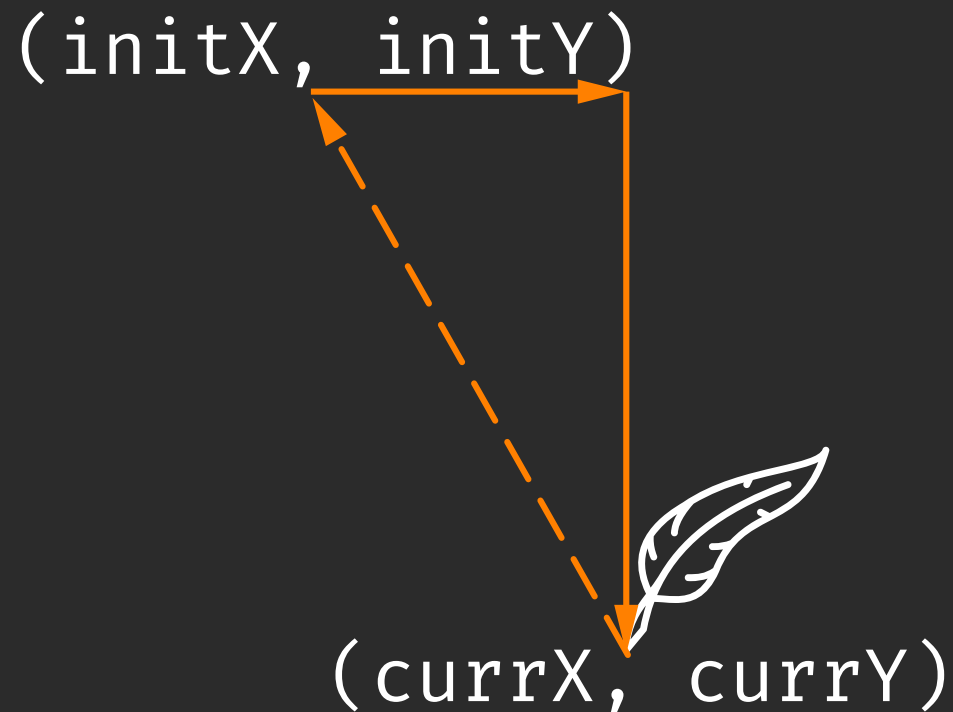
`path2D.curveTo(...), ...`



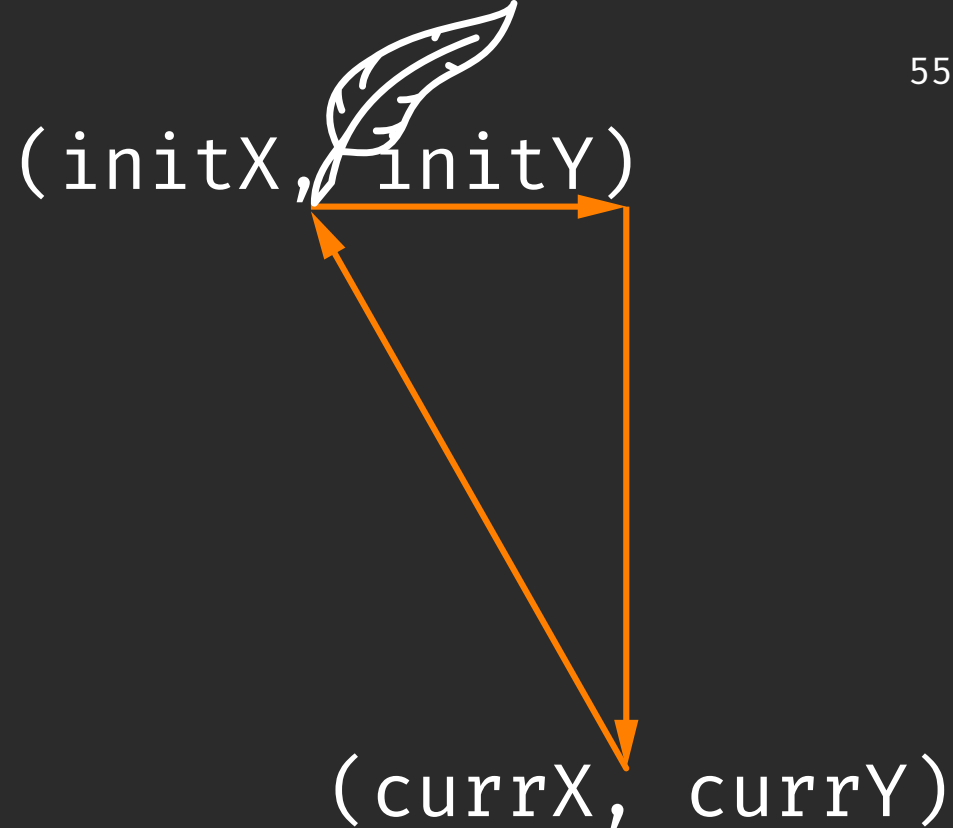




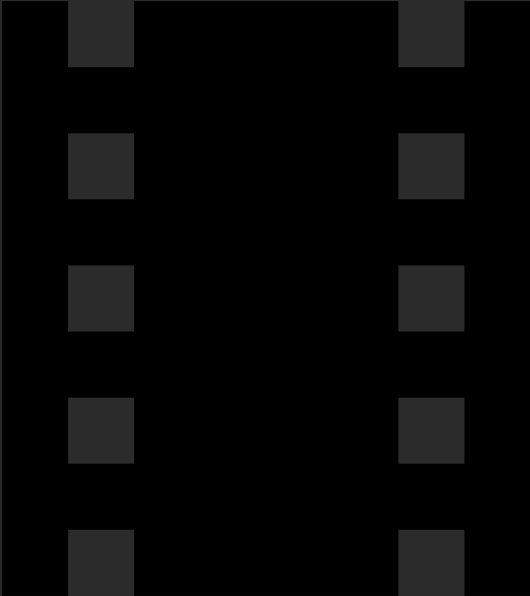
```
M initX, initY  
h 16  
v 29  
L initX, initY
```



Zz



```
path.close()  
path2D.closePath()
```





```
path.moveTo(x, y)  
path2D.moveTo(x, y)
```



```
path.rLineTo(0, dy)  
path2D.lineTo(currX, currY += dy)
```



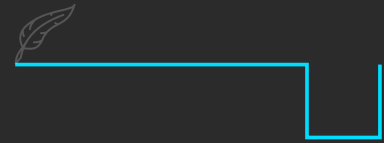
```
path.rLineTo(dx, 0)
path2D.lineTo(currX += dx, 0)
```

M18,3v2h-2L16,3



```
path.lineTo(x, y)
path2D.lineTo(x, y)
```

M18,3v2h-2L16,3L8,3



```
path.lineTo(x, y)  
path2D.lineTo(x, y)
```

M18, 3v2h-2L16, 3L8, 3v2



M18, 3v2h-2L16, 3L8, 3v2L6, 5



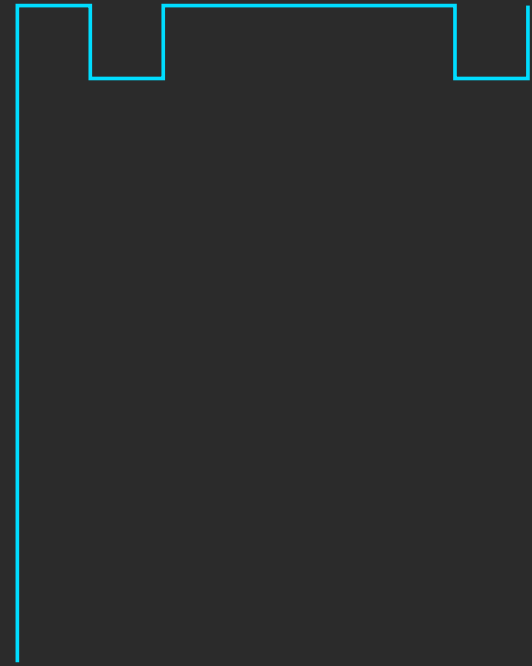
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3



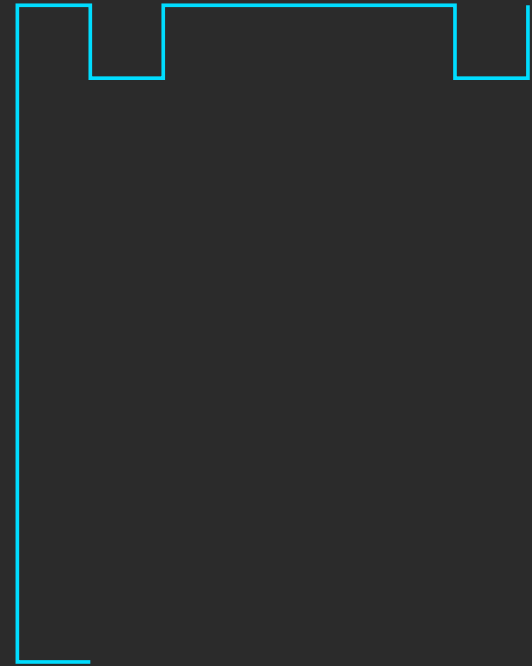
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18



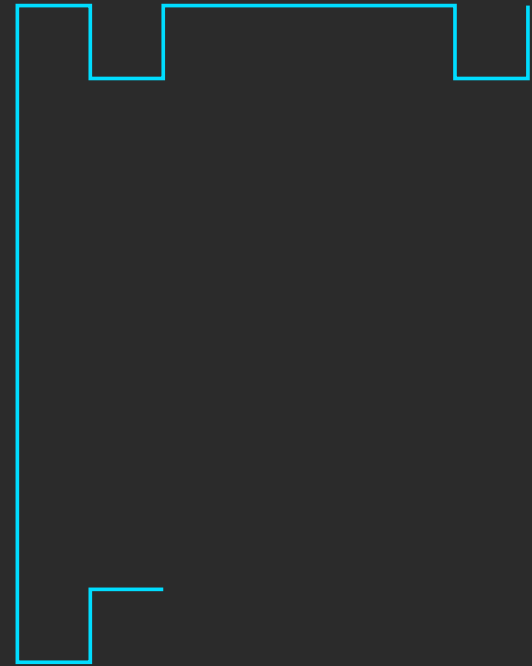
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2



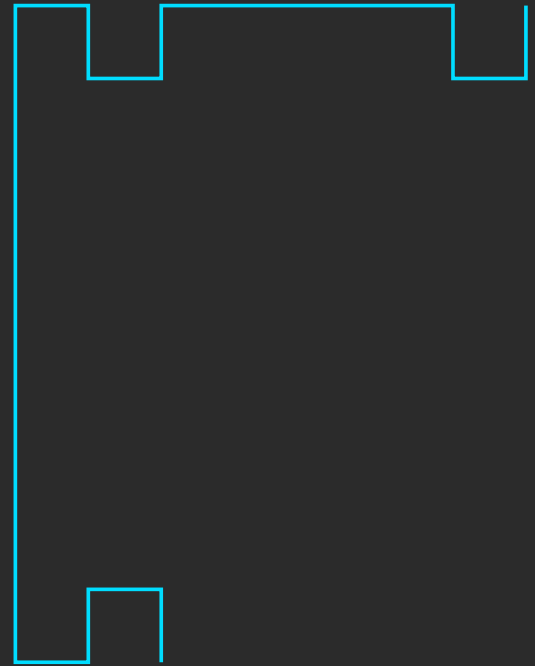
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2



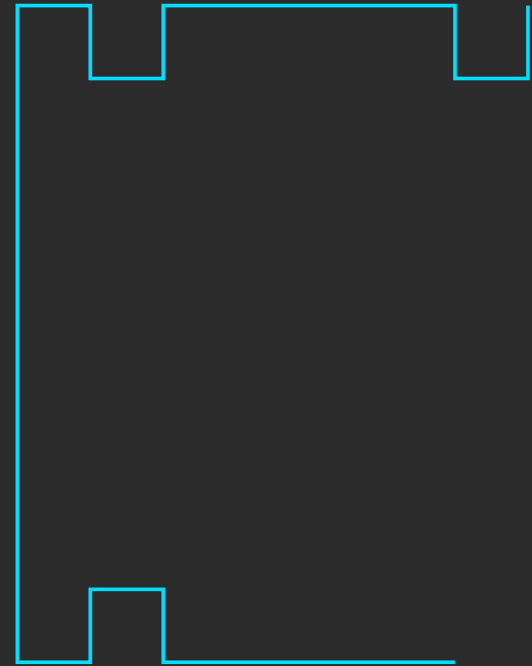
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2 69



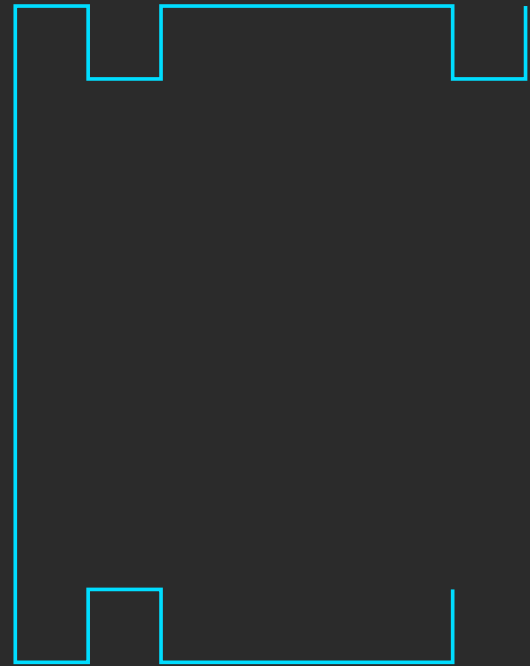
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2 70



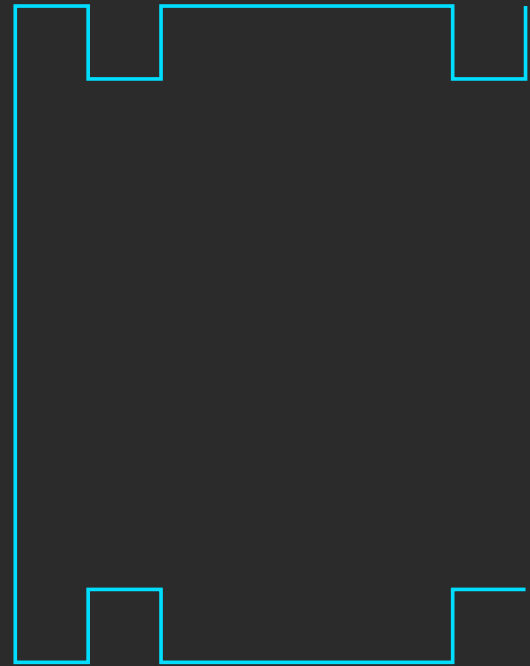
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8 71



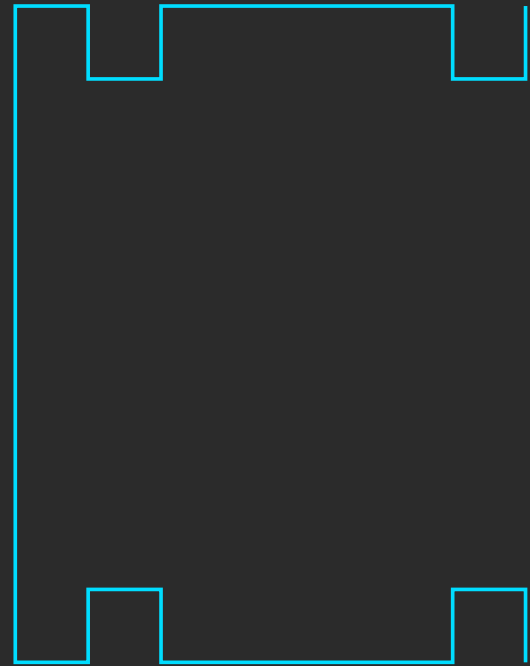
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8v-2 72



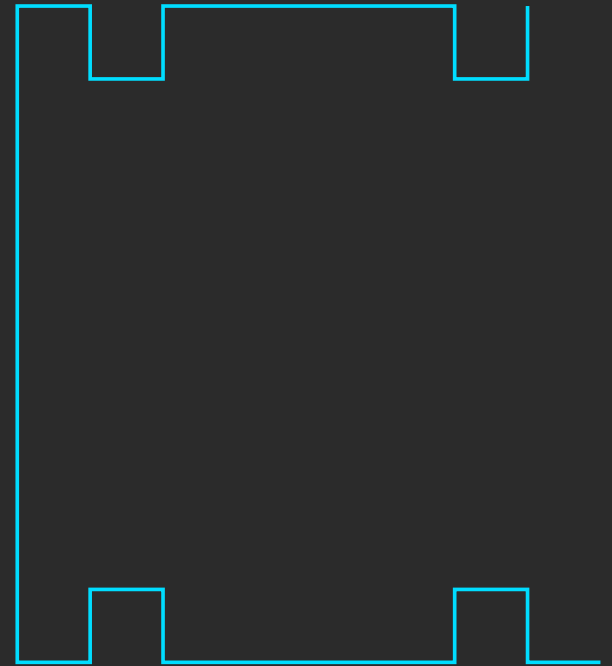
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8v-2h2



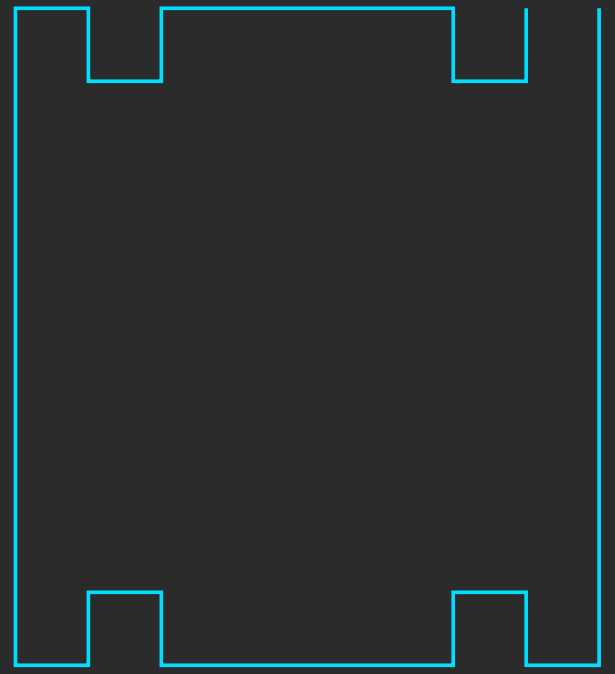
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8v-2h2v2 74



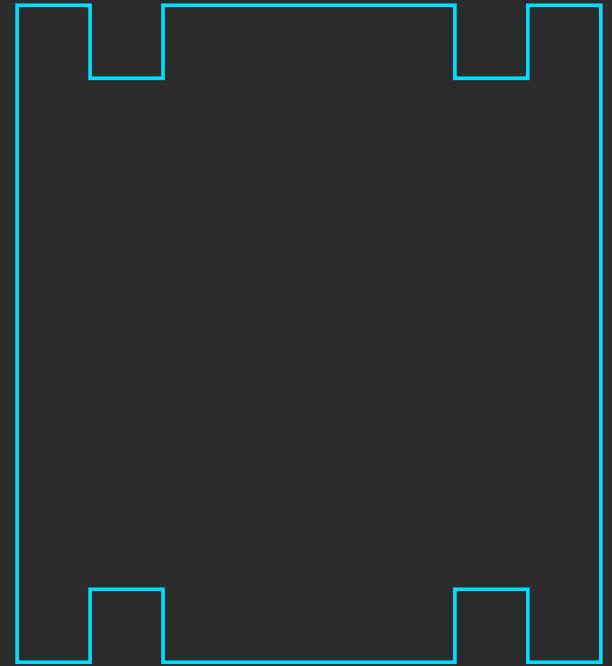
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8v-2h2v2h2 75



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8v-2h2v2h2L20, 3

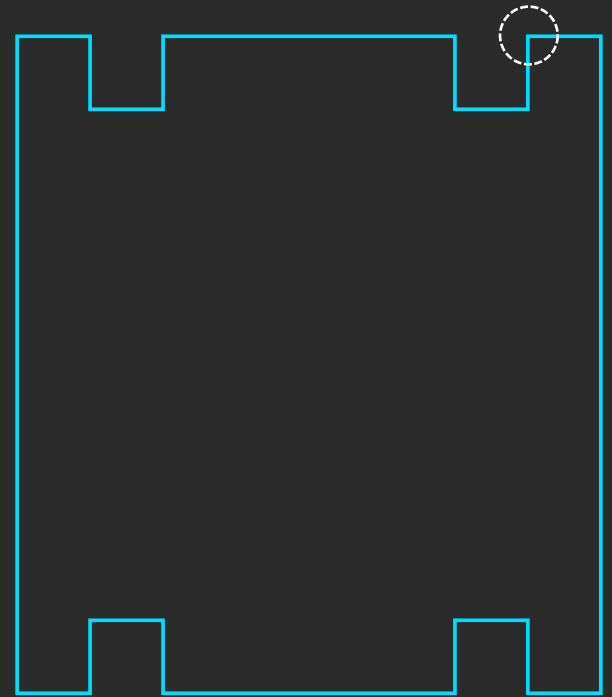


M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2  
v2h8v-2h2v2h2L20, 3h-2 77

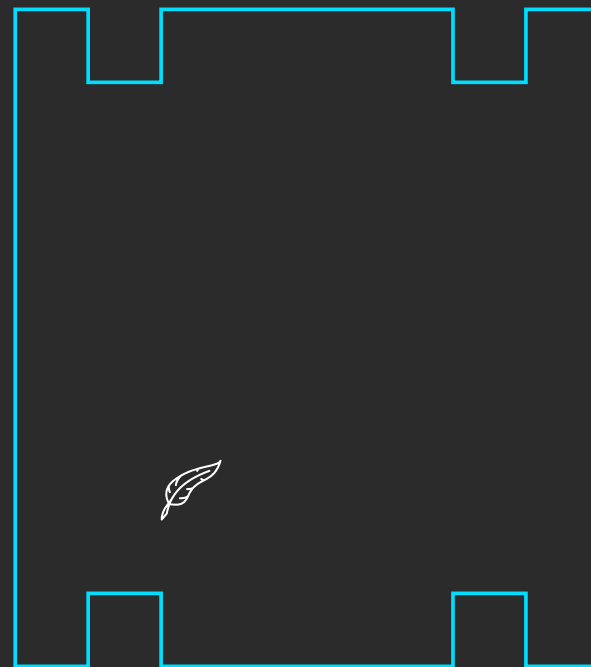


M18,3v2h-2L16,3L8,3v2L6,5L6,3L4,3v18h2v-2h2  
v2h8v-2h2v2h2L20,3h-2z 78

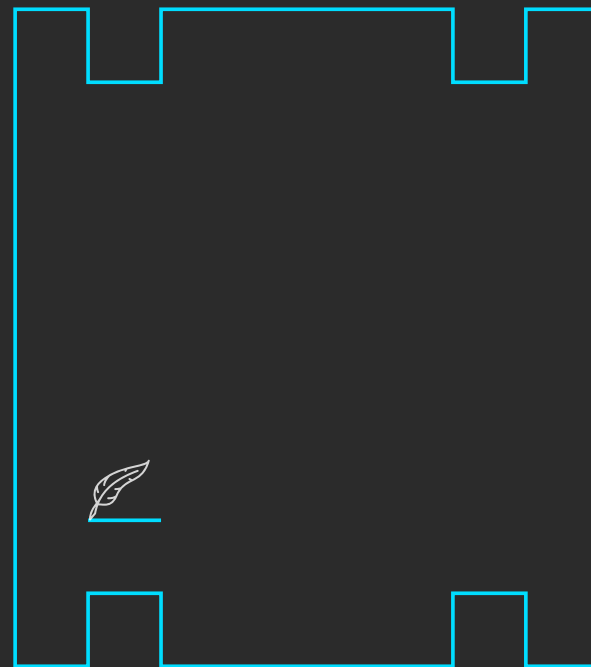
```
path.close()  
path2D.closePath()
```



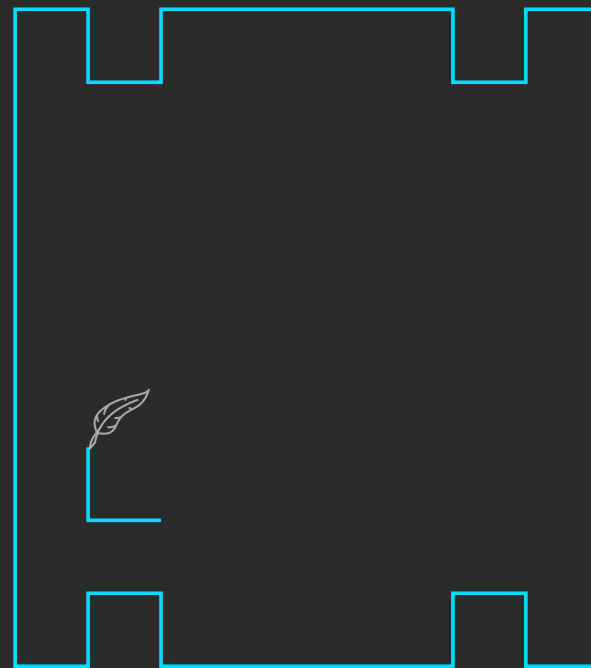
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17



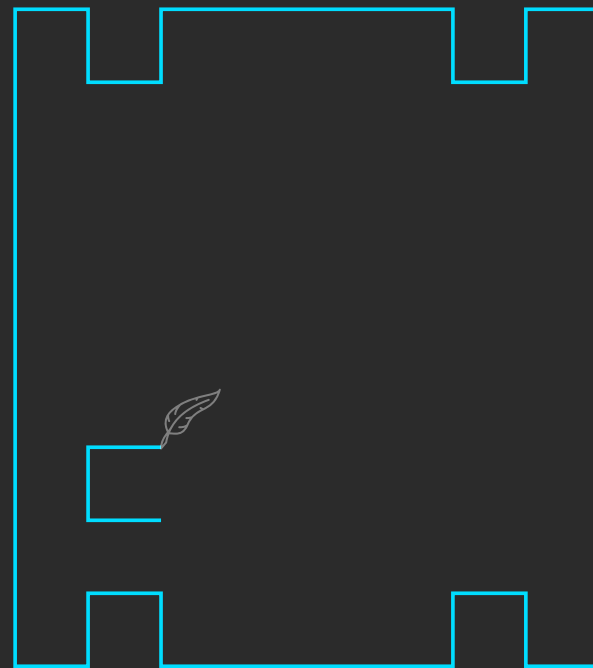
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17



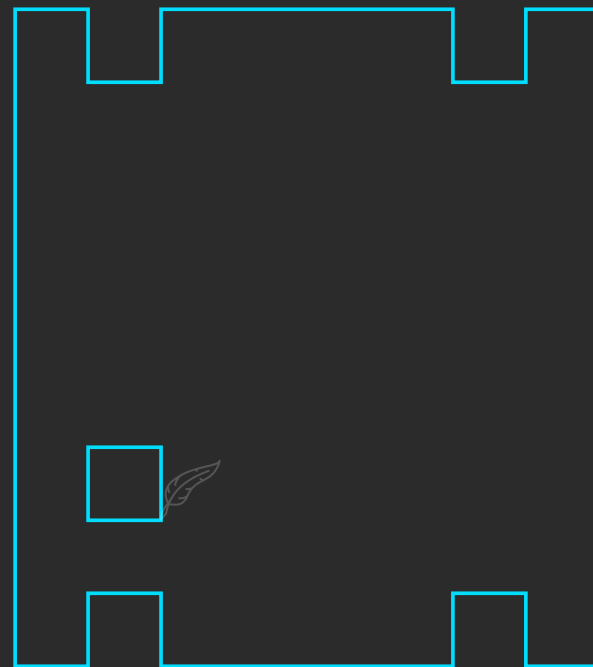
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2



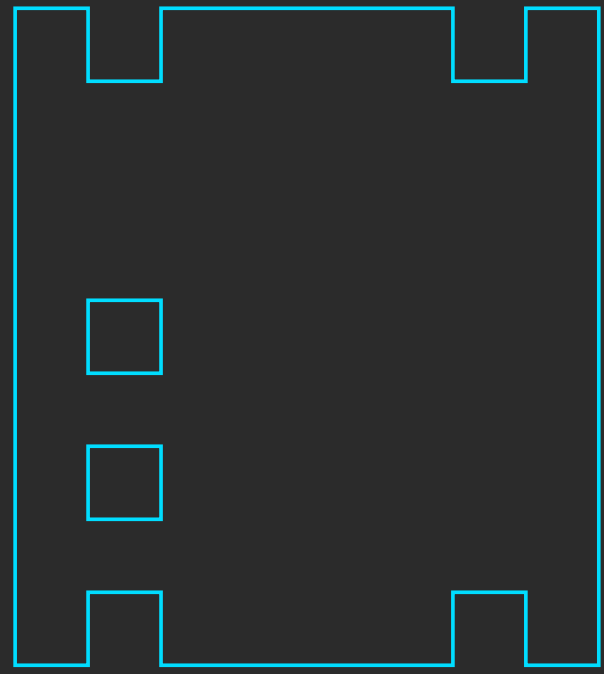
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2



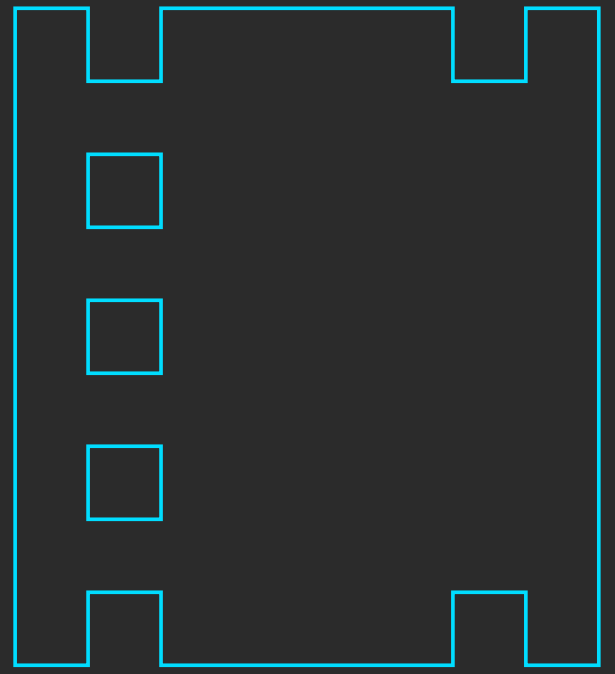
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2v2z



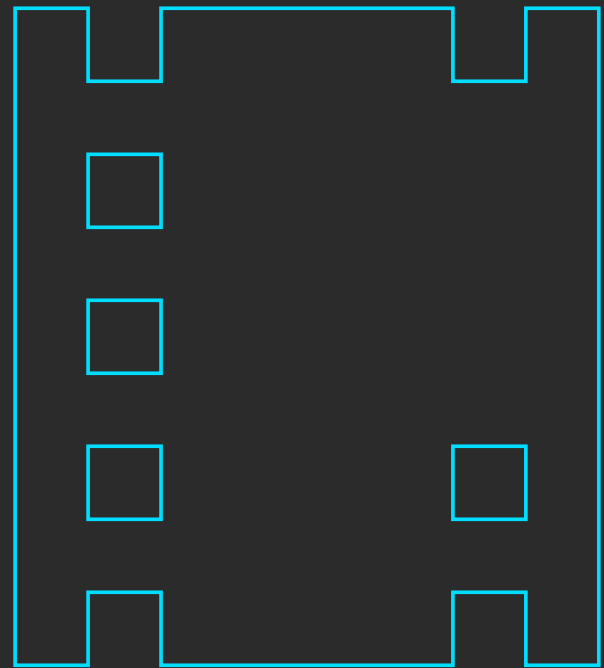
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2v2z  
M8, 13L6, 13v-2h2v2z



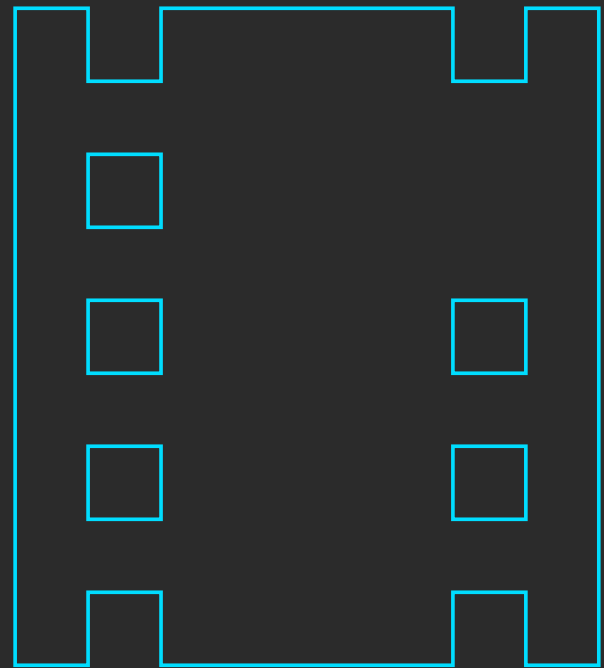
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2v2z  
M8, 13L6, 13v-2h2v2z  
M8, 9L6, 9L6, 7h2v2z



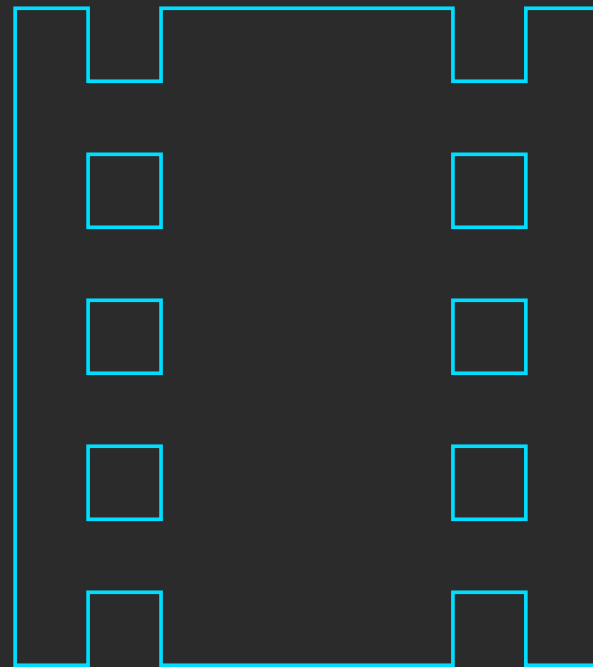
M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2v2z  
M8, 13L6, 13v-2h2v2z  
M8, 9L6, 9L6, 7h2v2z  
M18, 17h-2v-2h2v2z



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2v2z  
M8, 13L6, 13v-2h2v2z  
M8, 9L6, 9L6, 7h2v2z  
M18, 17h-2v-2h2v2z  
M18, 13h-2v-2h2v2z



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z  
M8, 17L6, 17v-2h2v2z  
M8, 13L6, 13v-2h2v2z  
M8, 9L6, 9L6, 7h2v2z  
M18, 17h-2v-2h2v2z  
M18, 13h-2v-2h2v2z  
M18, 9h-2L16, 7h2v2z



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z

M8, 17L6, 17v-2h2v2z

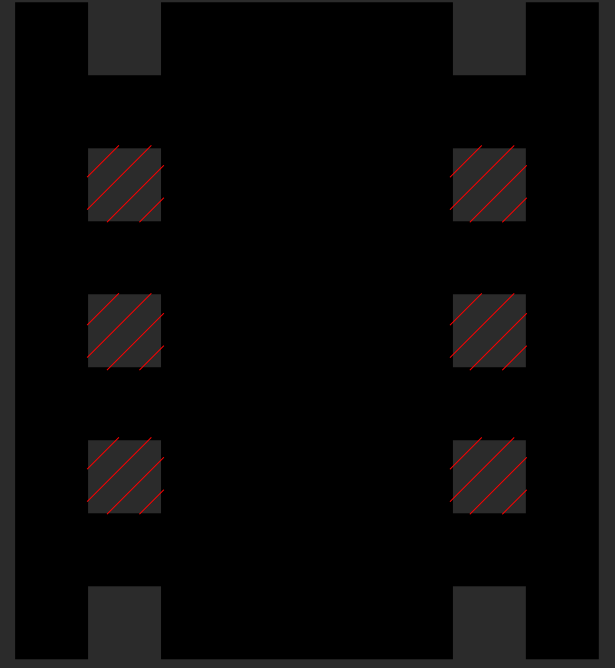
M8, 13L6, 13v-2h2v2z

M8, 9L6, 9L6, 7h2v2z

M18, 17h-2v-2h2v2z

M18, 13h-2v-2h2v2z

M18, 9h-2L16, 7h2v2z



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z

90

M8, 17L6, 17v-2h2v2z

M8, 13L6, 13v-2h2v2z

M8, 9L6, 9L6, 7h2v2z

M18, 17h-2v-2h2v2z

M18, 13h-2v-2h2v2z

M18, 9h-2L16, 7h2v2z



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z

M8, 17L6, 17v-2h2v2z

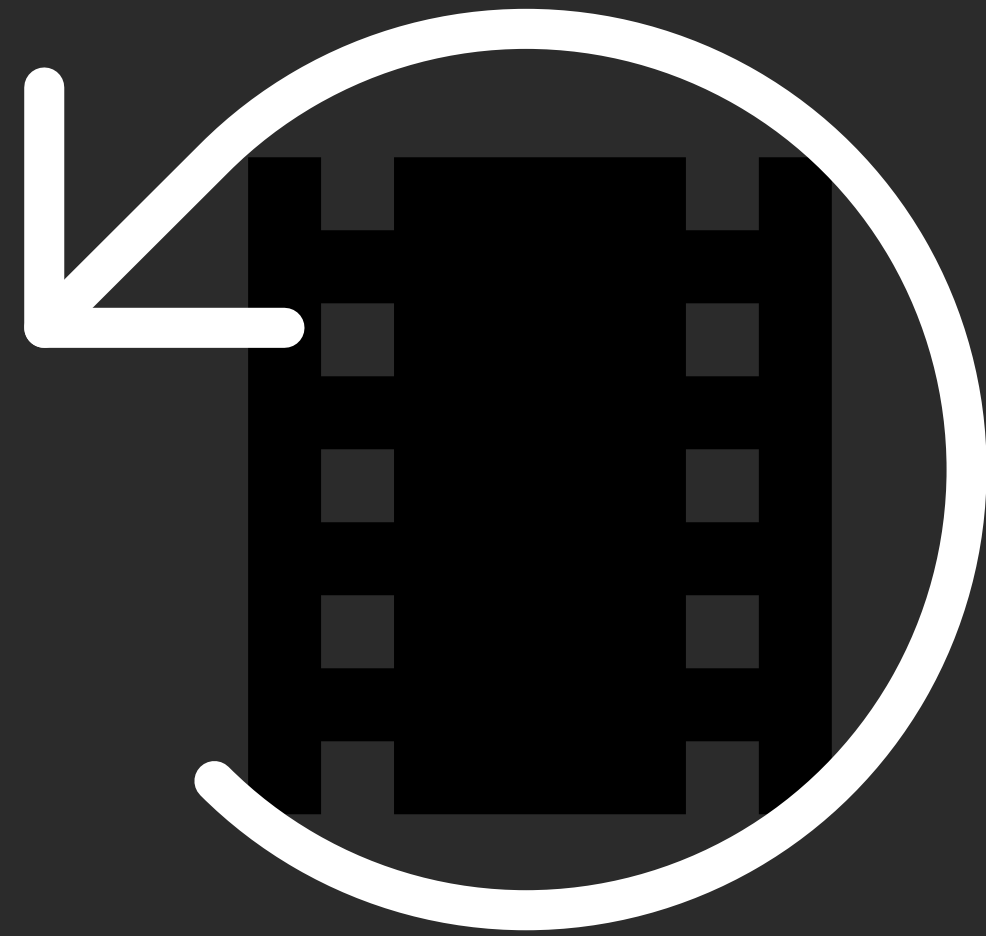
M8, 13L6, 13v-2h2v2z

M8, 9L6, 9L6, 7h2v2z

M18, 17h-2v-2h2v2z

M18, 13h-2v-2h2v2z

M18, 9h-2L16, 7h2v2z



M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2v2h8v-2h2v2h2L20, 3h-2z

M8, 17L6, 17v-2h2v2z

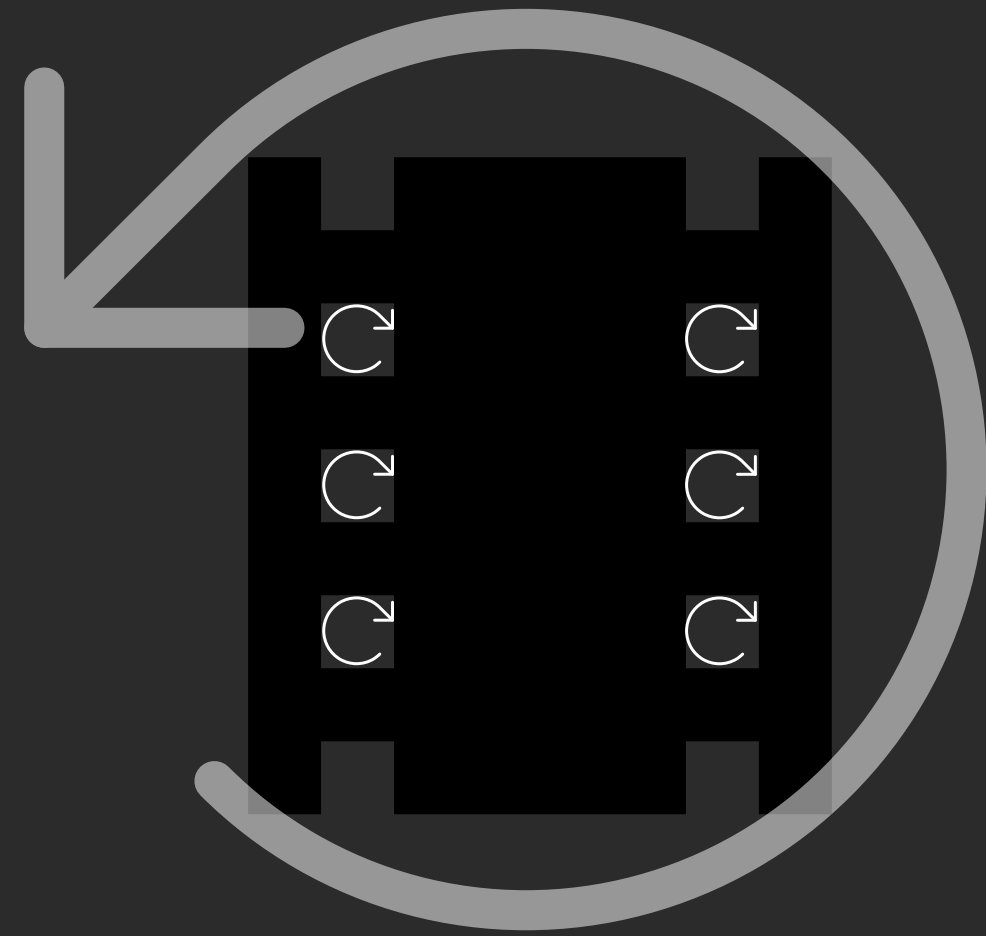
M8, 13L6, 13v-2h2v2z

M8, 9L6, 9L6, 7h2v2z

M18, 17h-2v-2h2v2z

M18, 13h-2v-2h2v2z

M18, 9h-2L16, 7h2v2z



```
fill-rule="nonzero | evenodd"
```

```
android:fillType="nonZero | evenOdd"
```

```
android.graphics.Path.setFillType(WINDING | EVEN_ODD | ...)
```

```
SkPath::setFillType(Winding | EvenOdd | ...)
```

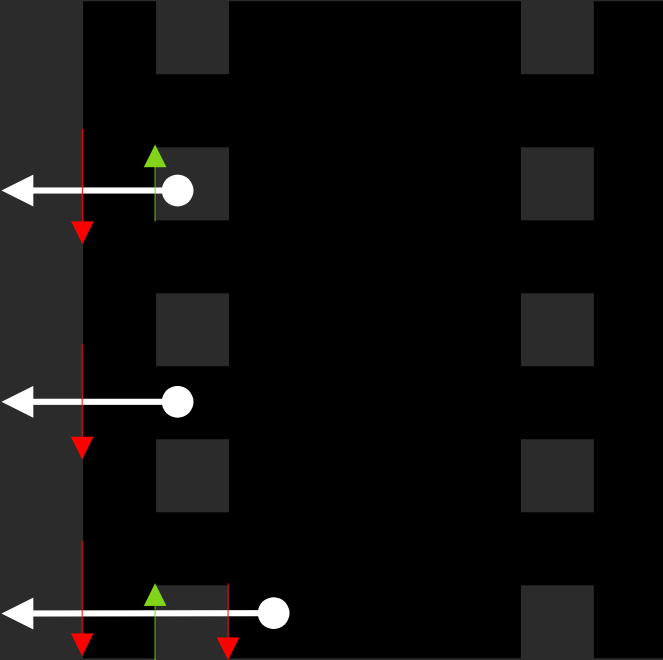
```
java.awt.geom.Path2D.setWindingRule(WIND_NON_ZERO | WIND_EVEN_ODD)
```

The winding rule constant for specifying an even-odd rule for determining the interior of a path. The even-odd rule specifies that a point lies inside the path if a ray drawn in any direction from that point to infinity is crossed by path segments an odd number of times.

```
@Native public static final int WIND_EVEN_ODD = 0;
```

The winding rule constant for specifying a non-zero rule for determining the interior of a path. The non-zero rule specifies that a point lies inside the path if a ray drawn in any direction from that point to infinity is crossed by path segments a different number of times in the counter-clockwise direction than the clockwise direction.

```
@Native public static final int WIND_NON_ZERO = 1;
```

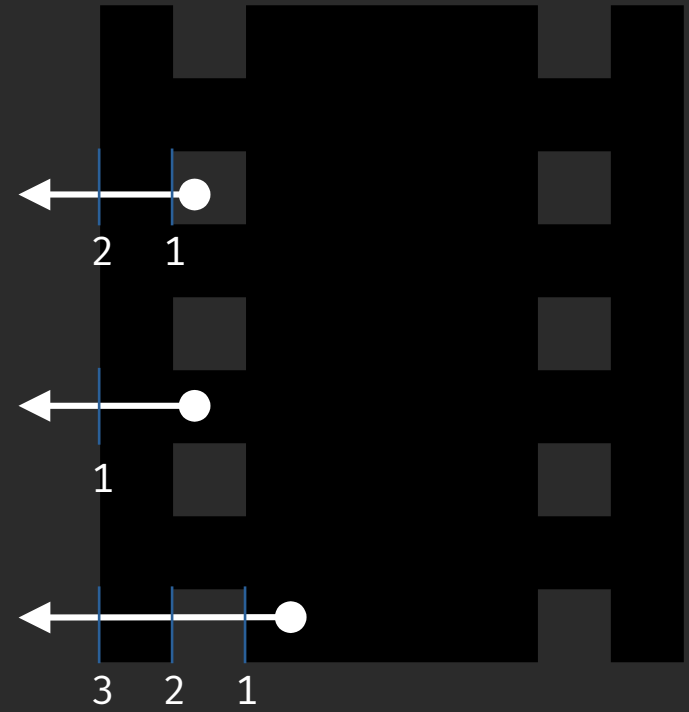


The winding rule constant for specifying an even-odd rule for determining the interior of a path. The even-odd rule specifies that a point lies inside the path if a ray drawn in any direction from that point to infinity is crossed by path segments an odd number of times.

```
@Native public static final int WIND_EVEN_ODD = 0;
```

The winding rule constant for specifying a non-zero rule for determining the interior of a path. The non-zero rule specifies that a point lies inside the path if a ray drawn in any direction from that point to infinity is crossed by path segments a different number of times in the counter-clockwise direction than the clockwise direction.

```
@Native public static final int WIND_NON_ZERO = 1;
```



```
<path
```

98

```
    android:fillColor="#ffbb33"
```

```
    android:fillType="nonZero"
```

```
    android:pathData="
```

```
M0,7 a7,7 0 0,0 14,0
```

```
    a7,7 0 0,0 -14,0
```

```
M2,15 a7,7 0 0,1 14,0
```

```
    a7,7 0 0,1 -14,0
```

```
M9,9 a7,7 0 0,1 14,0
```

```
    a7,7 0 0,1 -14,0
```

```
" />
```



<path

99

```
android:fillColor="#ffbb33"
```

```
android:fillType="evenOdd"
```

```
android:pathData="
```

```
M0,7 a7,7 0 0,0 14,0
```

```
a7,7 0 0,0 -14,0
```

```
M2,15 a7,7 0 0,1 14,0
```

```
a7,7 0 0,1 -14,0
```

```
M9,9 a7,7 0 0,1 14,0
```

```
a7,7 0 0,1 -14,0
```

```
" />
```



```
= "100dp"  
t="100dp"  
ortWidth="100"  
ortHeight="100">
```

```
hData="M48.8,11.3l-2.5,-1.2a3.4,3.4 0,0 0,-4.4 1.3c-1.2,2 -3.7,4.4 -8.7,4.4s-7.5,-2.4 -8.7,-4.4a3.4,3.4 0,0 0,-4.4 -1.3l-2.6,1.2M
```

Very long vector path (1235 characters), which is bad for performance. Considering reducing precision, removing minor details or rasterizing vector. ⋮

[Suppress: Add tools:ignore="VectorPath" attribute](#) Alt+Shift+Enter [More actions...](#) Alt+Enter

```
= "100dp"  
t="100dp"  
ortWidth="100"  
ortHeight="100">
```

```
hData="M48.8,11.3l-2.5,-1.2a3.4,3.4 0,0 0,-4.4 1.3c-1.2,2 -3.7,4.4 -8.7,4.4s-7.5,-2.4 -8.7,-4.4a3.4,3.4 0,0 0,-4.4 -1.3l-2.6,1.2
```

Very long vector path (1235 characters), which is bad for performance. Considering reducing precision, removing minor details or rasterizing vector. ⋮

Suppress: Add tools:ignore="VectorPath" attribute Alt+Shift+Enter More actions... Alt+Enter

МНОГА  
НИАСИЛИЛ!  
БУКАФ

```
<path
```

```
    android:pathData="
```

```
        r is .5d
```

```
        hello world
```

```
        how you're doing?
```

# github.com/svg/svgo

☰ README.md



**SVGO**

npm

v2.8.0

chat

3 online

SVGO Optimizer is a Node.js-based tool for optimizing SVG vector graphics files.

## Why?

SVG files, especially those exported from various editors, usually contain a lot of redundant and useless information. This can include editor metadata, comments, hidden elements, default or non-optimal values and other stuff that can be safely removed or converted without affecting the SVG rendering result.

# github.com/alexjlockwood/avocado


☰ README.md

## avocado

build **passing** npm package **1.0.0** coverage **90%**



`avocado` is a command line tool (similar to `svgo`) that optimizes Android `VectorDrawable` (VD) and `AnimatedVectorDrawable` (AVD) xml files.

github.com/Miha-x64/Mikes\_IDEA\_extensions

☰ README.md 

## Mike's IDEA extensions

---

 plugin v0.24  downloads 4.8k

Code quality goodifier, RAM saver, performance watcher, mood upgrader, vector drawable optimizer, color previewer.



# Mike's IDEA Extensions

- ИЗЛИШНЯЯ ТОЧНОСТЬ
- бесполезная маска, группа, атрибут
- невидимый контур — пустой, отрезанный, без заливки и обводки, перекрытый

```
<vector xmlns:android="http://schemas.android.com/apk/res/android"  
  android:width="18dp"  
  android:height="18dp"  
  android:viewportWidth="18"  
  android:viewportHeight="18">
```

```
<path
```

```
  android:pathData="M17.602,0.727C17.785,0.91 17.836,1.187 17.731,1.423L10.66,17.333C10.559  
  android:fillColor="#111111"  
  android:fillType="evenOdd"
```

```
</vector>
```

- Trim aggressively >
- Trim carefully >
- Extract string resource >
- Override Resource in Other Configuration... >
- Rearrange tag attributes >
- Remove attribute >
- Inject language or reference >
- Put attributes on one line >

Press Ctrl+Q to toggle preview

1 1 ^ v

NoActionBar v



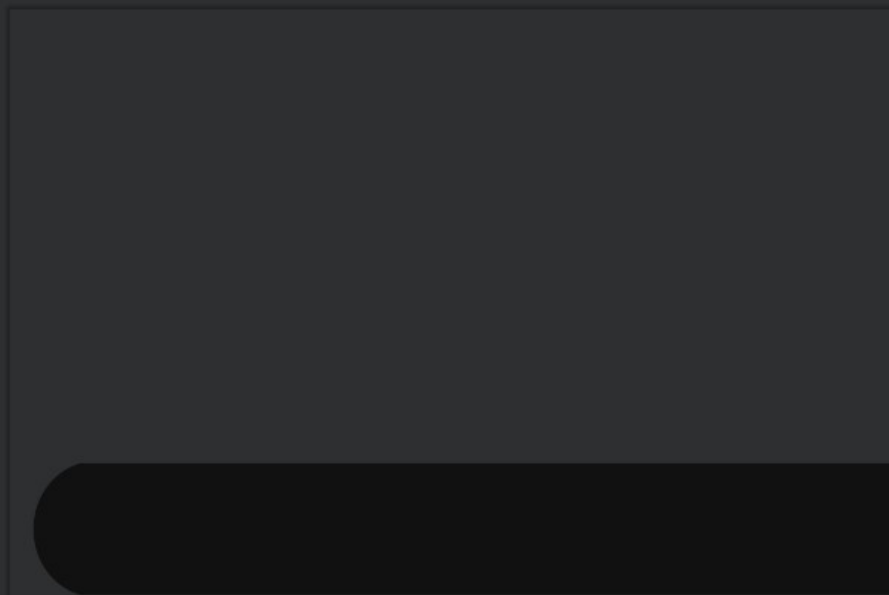
```
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="18dp"
    android:height="18dp"
    android:viewportWidth="18"
    android:viewportHeight="18">
    <path
        android:pathData="M17.6,0.73C17.79,0.91 17.84,1.19 17.73,1.42L10.66,17.33C10.56,17.56 10.66,17.79 10.85,17.97C11.04,18.15 11.23,18.15 11.42,17.97C11.61,17.79 11.7,17.56 11.59,17.33C11.48,17.1 11.67,16.87 11.86,16.69C12.05,16.51 12.24,16.51 12.43,16.69C12.62,16.87 12.71,17.1 12.6,17.33C12.49,17.56 12.68,17.79 12.87,17.97C13.06,18.15 13.25,18.15 13.44,17.97C13.63,17.79 13.72,17.56 13.61,17.33C13.5,17.1 13.69,16.87 13.88,16.69C14.07,16.51 14.26,16.51 14.45,16.69C14.64,16.87 14.73,17.1 14.62,17.33C14.51,17.56 14.7,17.79 14.89,17.97C15.08,18.15 15.27,18.15 15.46,17.97C15.65,17.79 15.74,17.56 15.63,17.33C15.52,17.1 15.71,16.87 15.9,16.69C16.09,16.51 16.28,16.51 16.47,16.69C16.66,16.87 16.75,17.1 16.64,17.33C16.53,17.56 16.72,17.79 16.91,17.97C17.1,18.15 17.29,18.15 17.48,17.97C17.67,17.79 17.76,17.56 17.65,17.33C17.54,17.1 17.73,16.87 17.92,16.69C18.11,16.51 18.3,16.51 18.49,16.69C18.68,16.87 18.77,17.1 18.66,17.33C18.55,17.56 18.74,17.79 18.93,17.97C19.12,18.15 19.31,18.15 19.5,17.97C19.69,17.79 19.78,17.56 19.67,17.33C19.56,17.1 19.75,16.87 19.94,16.69C20.13,16.51 20.32,16.51 20.51,16.69C20.7,16.87 20.79,17.1 20.68,17.33C20.57,17.56 20.76,17.79 20.95,17.97C21.14,18.15 21.33,18.15 21.52,17.97C21.71,17.79 21.8,17.56 21.69,17.33C21.58,17.1 21.77,16.87 21.96,16.69C22.15,16.51 22.34,16.51 22.53,16.69C22.72,16.87 22.81,17.1 22.7,17.33C22.59,17.56 22.78,17.79 22.97,17.97C23.16,18.15 23.35,18.15 23.54,17.97C23.73,17.79 23.82,17.56 23.71,17.33C23.6,17.1 23.79,16.87 23.98,16.69C24.17,16.51 24.36,16.51 24.55,16.69C24.74,16.87 24.83,17.1 24.72,17.33C24.61,17.56 24.8,17.79 24.99,17.97C25.18,18.15 25.37,18.15 25.56,17.97C25.75,17.79 25.84,17.56 25.73,17.33C25.62,17.1 25.81,16.87 26.0,16.69C26.19,16.51 26.38,16.51 26.57,16.69C26.76,16.87 26.85,17.1 26.74,17.33C26.63,17.56 26.82,17.79 27.01,17.97C27.2,18.15 27.39,18.15 27.58,17.97C27.77,17.79 27.86,17.56 27.75,17.33C27.64,17.1 27.83,16.87 28.02,16.69C28.21,16.51 28.4,16.51 28.59,16.69C28.78,16.87 28.87,17.1 28.76,17.33C28.65,17.56 28.84,17.79 29.03,17.97C29.22,18.15 29.41,18.15 29.6,17.97C29.79,17.79 29.88,17.56 29.77,17.33C29.66,17.1 29.85,16.87 30.04,16.69C30.23,16.51 30.42,16.51 30.61,16.69C30.8,16.87 30.89,17.1 30.78,17.33C30.67,17.56 30.86,17.79 31.05,17.97C31.24,18.15 31.43,18.15 31.62,17.97C31.81,17.79 31.9,17.56 31.79,17.33C31.68,17.1 31.87,16.87 32.06,16.69C32.25,16.51 32.44,16.51 32.63,16.69C32.82,16.87 32.91,17.1 32.8,17.33C32.69,17.56 32.88,17.79 33.07,17.97C33.26,18.15 33.45,18.15 33.64,17.97C33.83,17.79 33.92,17.56 33.81,17.33C33.7,17.1 33.89,16.87 34.08,16.69C34.27,16.51 34.46,16.51 34.65,16.69C34.84,16.87 34.93,17.1 34.82,17.33C34.71,17.56 34.9,17.79 35.09,17.97C35.28,18.15 35.47,18.15 35.66,17.97C35.85,17.79 35.94,17.56 35.83,17.33C35.72,17.1 35.91,16.87 36.1,16.69C36.29,16.51 36.48,16.51 36.67,16.69C36.86,16.87 36.95,17.1 36.84,17.33C36.73,17.56 36.92,17.79 37.11,17.97C37.3,18.15 37.49,18.15 37.68,17.97C37.87,17.79 37.96,17.56 37.85,17.33C37.74,17.1 37.93,16.87 38.12,16.69C38.31,16.51 38.5,16.51 38.69,16.69C38.88,16.87 38.97,17.1 38.86,17.33C38.75,17.56 38.94,17.79 39.13,17.97C39.32,18.15 39.51,18.15 39.7,17.97C39.89,17.79 39.98,17.56 39.87,17.33C39.76,17.1 39.95,16.87 40.14,16.69C40.33,16.51 40.52,16.51 40.71,16.69C40.9,16.87 40.99,17.1 40.88,17.33C40.77,17.56 40.96,17.79 41.15,17.97C41.34,18.15 41.53,18.15 41.72,17.97C41.91,17.79 42.0,17.56 41.89,17.33C41.78,17.1 41.97,16.87 42.16,16.69C42.35,16.51 42.54,16.51 42.73,16.69C42.92,16.87 43.01,17.1 42.9,17.33C42.79,17.56 42.98,17.79 43.17,17.97C43.36,18.15 43.55,18.15 43.74,17.97C43.93,17.79 44.02,17.56 43.91,17.33C43.8,17.1 43.99,16.87 44.18,16.69C44.37,16.51 44.56,16.51 44.75,16.69C44.94,16.87 45.03,17.1 44.92,17.33C44.81,17.56 45.0,17.79 45.19,17.97C45.38,18.15 45.57,18.15 45.76,17.97C45.95,17.79 46.04,17.56 45.93,17.33C45.82,17.1 46.01,16.87 46.2,16.69C46.39,16.51 46.58,16.51 46.77,16.69C46.96,16.87 47.05,17.1 46.94,17.33C46.83,17.56 47.02,17.79 47.21,17.97C47.4,18.15 47.59,18.15 47.78,17.97C47.97,17.79 48.06,17.56 48.05,17.33C47.94,17.1 48.13,16.87 48.32,16.69C48.51,16.51 48.7,16.51 48.89,16.69C49.08,16.87 49.17,17.1 49.06,17.33C48.95,17.56 49.14,17.79 49.33,17.97C49.52,18.15 49.71,18.15 49.9,17.97C50.09,17.79 50.18,17.56 50.17,17.33C50.06,17.1 50.25,16.87 50.44,16.69C50.63,16.51 50.82,16.51 51.01,16.69C51.2,16.87 51.29,17.1 51.18,17.33C51.07,17.56 51.26,17.79 51.45,17.97C51.64,18.15 51.83,18.15 52.02,17.97C52.21,17.79 52.3,17.56 52.29,17.33C52.18,17.1 52.37,16.87 52.56,16.69C52.75,16.51 52.94,16.51 53.13,16.69C53.32,16.87 53.41,17.1 53.3,17.33C53.19,17.56 53.38,17.79 53.57,17.97C53.76,18.15 53.95,18.15 54.14,17.97C54.33,17.79 54.42,17.56 54.41,17.33C54.3,17.1 54.49,16.87 54.68,16.69C54.87,16.51 55.06,16.51 55.25,16.69C55.44,16.87 55.53,17.1 55.42,17.33C55.31,17.56 55.5,17.79 55.69,17.97C55.88,18.15 56.07,18.15 56.26,17.97C56.45,17.79 56.54,17.56 56.53,17.33C56.42,17.1 56.61,16.87 56.8,16.69C56.99,16.51 57.18,16.51 57.37,16.69C57.56,16.87 57.65,17.1 57.54,17.33C57.43,17.56 57.62,17.79 57.81,17.97C58.0,18.15 58.19,18.15 58.38,17.97C58.57,17.79 58.66,17.56 58.65,17.33C58.54,17.1 58.73,16.87 58.92,16.69C59.11,16.51 59.3,16.51 59.49,16.69C59.68,16.87 59.77,17.1 59.66,17.33C59.55,17.56 59.74,17.79 59.93,17.97C60.12,18.15 60.31,18.15 60.5,17.97C60.69,17.79 60.78,17.56 60.77,17.33C60.66,17.1 60.85,16.87 61.04,16.69C61.23,16.51 61.42,16.51 61.61,16.69C61.8,16.87 61.89,17.1 61.78,17.33C61.67,17.56 61.86,17.79 62.05,17.97C62.24,18.15 62.43,18.15 62.62,17.97C62.81,17.79 62.9,17.56 62.89,17.33C62.78,17.1 62.97,16.87 63.16,16.69C63.35,16.51 63.54,16.51 63.73,16.69C63.92,16.87 64.01,17.1 63.9,17.33C63.79,17.56 63.98,17.79 64.17,17.97C64.36,18.15 64.55,18.15 64.74,17.97C64.93,17.79 65.02,17.56 65.01,17.33C64.9,17.1 65.09,16.87 65.28,16.69C65.47,16.51 65.66,16.51 65.85,16.69C66.04,16.87 66.13,17.1 66.02,17.33C65.91,17.56 66.1,17.79 66.29,17.97C66.48,18.15 66.67,18.15 66.86,17.97C67.05,17.79 67.14,17.56 67.13,17.33C67.02,17.1 67.21,16.87 67.4,16.69C67.59,16.51 67.78,16.51 67.97,16.69C68.16,16.87 68.25,17.1 68.14,17.33C68.03,17.56 68.22,17.79 68.41,17.97C68.6,18.15 68.79,18.15 68.98,17.97C69.17,17.79 69.26,17.56 69.25,17.33C69.14,17.1 69.33,16.87 69.52,16.69C69.71,16.51 69.9,16.51 70.09,16.69C70.28,16.87 70.37,17.1 70.26,17.33C70.15,17.56 70.34,17.79 70.53,17.97C70.72,18.15 70.91,18.15 71.1,17.97C71.29,17.79 71.38,17.56 71.37,17.33C71.26,17.1 71.45,16.87 71.64,16.69C71.83,16.51 72.02,16.51 72.21,16.69C72.4,16.87 72.49,17.1 72.38,17.33C72.27,17.56 72.46,17.79 72.65,17.97C72.84,18.15 73.03,18.15 73.22,17.97C73.41,17.79 73.5,17.56 73.49,17.33C73.38,17.1 73.57,16.87 73.76,16.69C73.95,16.51 74.14,16.51 74.33,16.69C74.52,16.87 74.61,17.1 74.5,17.33C74.39,17.56 74.58,17.79 74.77,17.97C74.96,18.15 75.15,18.15 75.34,17.97C75.53,17.79 75.62,17.56 75.61,17.33C75.5,17.1 75.69,16.87 75.88,16.69C76.07,16.51 76.26,16.51 76.45,16.69C76.64,16.87 76.73,17.1 76.62,17.33C76.51,17.56 76.7,17.79 76.89,17.97C77.08,18.15 77.27,18.15 77.46,17.97C77.65,17.79 77.74,17.56 77.73,17.33C77.62,17.1 77.81,16.87 78.0,16.69C78.19,16.51 78.38,16.51 78.57,16.69C78.76,16.87 78.85,17.1 78.74,17.33C78.63,17.56 78.82,17.79 79.01,17.97C79.2,18.15 79.39,18.15 79.58,17.97C79.77,17.79 79.86,17.56 79.85,17.33C79.74,17.1 79.93,16.87 80.12,16.69C80.31,16.51 80.5,16.51 80.69,16.69C80.88,16.87 80.97,17.1 80.86,17.33C80.75,17.56 80.94,17.79 81.13,17.97C81.32,18.15 81.51,18.15 81.7,17.97C81.89,17.79 81.98,17.56 81.97,17.33C81.86,17.1 82.05,16.87 82.24,16.69C82.43,16.51 82.62,16.51 82.81,16.69C83.0,16.87 83.09,17.1 82.98,17.33C82.87,17.56 83.06,17.79 83.25,17.97C83.44,18.15 83.63,18.15 83.82,17.97C84.01,17.79 84.1,17.56 84.09,17.33C83.98,17.1 84.17,16.87 84.36,16.69C84.55,16.51 84.74,16.51 84.93,16.69C85.12,16.87 85.21,17.1 85.1,17.33C84.99,17.56 85.18,17.79 85.37,17.97C85.56,18.15 85.75,18.15 85.94,17.97C86.13,17.79 86.22,17.56 86.21,17.33C86.1,17.1 86.29,16.87 86.48,16.69C86.67,16.51 86.86,16.51 87.05,16.69C87.24,16.87 87.33,17.1 87.22,17.33C87.11,17.56 87.3,17.79 87.49,17.97C87.68,18.15 87.87,18.15 88.06,17.97C88.25,17.79 88.34,17.56 88.33,17.33C88.22,17.1 88.41,16.87 88.6,16.69C88.79,16.51 88.98,16.51 89.17,16.69C89.36,16.87 89.45,17.1 89.34,17.33C89.23,17.56 89.42,17.79 89.61,17.97C89.8,18.15 89.99,18.15 90.18,17.97C90.37,17.79 90.46,17.56 90.45,17.33C90.34,17.1 90.53,16.87 90.72,16.69C90.91,16.51 91.1,16.51 91.29,16.69C91.48,16.87 91.57,17.1 91.46,17.33C91.35,17.56 91.54,17.79 91.73,17.97C91.92,18.15 92.11,18.15 92.3,17.97C92.49,17.79 92.58,17.56 92.57,17.33C92.46,17.1 92.65,16.87 92.84,16.69C93.03,16.51 93.22,16.51 93.41,16.69C93.6,16.87 93.69,17.1 93.58,17.33C93.47,17.56 93.66,17.79 93.85,17.97C94.04,18.15 94.23,18.15 94.42,17.97C94.61,17.79 94.7,17.56 94.69,17.33C94.58,17.1 94.77,16.87 94.96,16.69C95.15,16.51 95.34,16.51 95.53,16.69C95.72,16.87 95.81,17.1 95.7,17.33C95.59,17.56 95.78,17.79 95.97,17.97C96.16,18.15 96.35,18.15 96.54,17.97C96.73,17.79 96.82,17.56 96.81,17.33C96.7,17.1 96.89,16.87 97.08,16.69C97.27,16.51 97.46,16.51 97.65,16.69C97.84,16.87 97.93,17.1 97.82,17.33C97.71,17.56 97.9,17.79 98.09,17.97C98.28,18.15 98.47,18.15 98.66,17.97C98.85,17.79 98.94,17.56 98.93,17.33C98.82,17.1 99.01,16.87 99.2,16.69C99.39,16.51 99.58,16.51 99.77,16.69C99.96,16.87 100.05,17.1 99.94,17.33C99.83,17.56 100.02,17.79 100.21,17.97C100.4,18.15 100.59,18.15 100.78,17.97C100.97,17.79 101.06,17.56 101.05,17.33C100.94,17.1 101.13,16.87 101.32,16.69C101.51,16.51 101.7,16.51 101.89,16.69C102.08,16.87 102.17,17.1 102.06,17.33C101.95,17.56 102.14,17.79 102.33,17.97C102.52,18.15 102.71,18.15 102.9,17.97C103.09,17.79 103.18,17.56 103.17,17.33C103.06,17.1 103.25,16.87 103.44,16.69C103.63,16.51 103.82,16.51 104.01,16.69C104.2,16.87 104.29,17.1 104.18,17.33C104.07,17.56 104.26,17.79 104.45,17.97C104.64,18.15 104.83,18.15 105.02,17.97C105.21,17.79 105.3,17.56 105.29,17.33C105.18,17.1 105.37,16.87 105.56,16.69C105.75,16.51 105.94,16.51 106.13,16.69C106.32,16.87 106.41,17.1 106.3,17.33C106.19,17.56 106.38,17.79 106.57,17.97C106.76,18.15 106.95,18.15 107.14,17.97C107.33,17.79 107.42,17.56 107.41,17.33C107.3,17.1 107.49,16.87 107.68,16.69C107.87,16.51 108.06,16.51 108.25,16.69C108.44,16.87 108.53,17.1 108.42,17.33C108.31,17.56 108.5,17.79 108.69,17.97C108.88,18.15 109.07,18.15 109.26,17.97C109.45,17.79 109.54,17.56 109.53,17.33C109.42,17.1 109.61,16.87 109.8,16.69C110.0,16.51 110.19,16.51 110.38,16.69C110.57,16.87 110.66,17.1 110.55,17.33C110.44,17.56 110.63,17.79 110.82,17.97C111.01,18.15 111.2,18.15 111.39,17.97C111.58,17.79 111.67,17.56 111.66,17.33C111.55,17.1 111.74,16.87 111.93,16.69C112.12,16.51 112.31,16.51 112.5,16.69C112.69,16.87 112.78,17.1 112.67,17.33C112.56,17.56 112.75,17.79 112.94,17.97C113.13,18.15 113.32,18.15 113.51,17.97C113.7,17.79 113.79,17.56 113.78,17.33C113.67,17.1 113.86,16.87 114.05,16.69C114.24,16.51 114.43,16.51 114.62,16.69C114.81,16.87 114.9,17.1 114.79,17.33C114.68,17.56 114.87,17.79 115.06,17.97C115.25,18.15 115.44,18.15 115.63,17.97C115.82,17.79 115.91,17.56 115.9,17.33C115.79,17.1 115.98,16.87 116.17,16.69C116.36,16.51 116.55,16.51 116.74,16.69C116.93,16.87 117.02,17.1 116.91,17.33C116.8,17.56 116.99,17.79 117.18,17.97C117.37,18.15 117.56,18.15 117.75,17.97C117.94,17.79 118.03,17.56 118.02,17.33C117.91,17.1 118.1,16.87 118.29,16.69C118.48,16.51 118.67,16.51 118.86,16.69C119.05,16.87 119.14,17.1 119.03,17.33C118.92,17.56 119.11,17.79 119.3,17.97C119.49,18.15 119.68,18.15 119.87,17.97C120.06,17.79 120.15,17.56 120.14,17.33C120.03,17.1 120.22,16.87 120.41,16.69C120.6,16.51 120.79,16.51 120.98,16.69C121.17,16.87 121.26,17.1 121.15,17.33C121.04,17.56 121.23,17.79 121.42,17.97C121.61,18.15 121.8,18.15 121.99,17.97C122.18,17.79 122.27,17.56 122.26,17.33C122.15,17.1 122.34,16.87 122.53,16.69C122.72,16.51 122.91,16.51 123.1,16.69C123.29,16.87 123.38,17.1 123.27,17.33C123.16,17.56 123.35,17.79 123.54,17.97C123.73,18.15 123.92,18.15 124.11,17.97C124.3,17.79 124.39,17.56 124.38,17.33C124.27,17.1 124.46,16.87 124.65,16.69C124.84,16.51 125.03,16.51 125.22,16.69C125.41,16.87 125.5,17.1 125.39,17.33C125.28,17.56 125.47,17.79 125.66,17.97C125.85,18.15 126.04,18.15 126.23,17.97C126.42,17.79 126.51,17.56 126.5,17.33C126.39,17.1 126.58,16.87 126.77,16.69C126.96,16.51 127.15,16.51 127.34,16.69C127.53,16.87 127.62,17.1 127.51,17.33C127.4,17.56 127.59,17.79 127.78,17.97C127.97,18.15 128.16,18.15 128.35,17.97C1
```



```
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="14dp"
    android:height="14dp"
    android:viewportWidth="14"
    android:viewportHeight="14">
    <path
        android:strokeWidth="1"
        android:pathData="M6.8453,6.9031H12.9171C12.9208,6.9046 12.9256,6.9067 12.9315,6.9096C12.9374,6.9125 12.9433,6.9154 12.9492,6.9183"
        android:strokeColor=#000000
    />
</vector>
```

- Trim aggressively >
  - Trim carefully >
  - Extract string resource >
  - Override Resource in Other Configuration... >
  - Rearrange tag attributes >
  - Remove attribute >
  - Inject language or reference >
  - Put attributes on one line >
- Press Ctrl+Q to toggle preview

1 ^ v NoActionBar



```
<vector xmlns:android="http://schemas.android.com/apk/res/android"  
    android:width="14dp"  
    android:height="14dp"  
    android:viewportWidth="14"  
    android:viewportHeight="14">  
    <path  
        android:strokeWidth="1"  
        android:pathData="M6.85,6.9H12.92C12.92,6.91,12.93,6.91,12.93,6.91C12.96,6.92,13.6,95.13.0  
        android:strokeColor=  
    </vector>
```

- Trim aggressively >
- Extract string resource >
- Override Resource in Other Configuration... >
- Rearrange tag attributes >
- Remove attribute >
- Inject language or reference >
- Put attributes on one line >
- Rollback changes in current line >

Press Ctrl+Q to toggle preview

NoActionBar









```
<path
```

```
  android:pathData="M53.59,22L40.4,22"
```

```
  android:strokeLineJoin="round"
```

```
  android:strokeWidth="2"
```

```
  android:fillColor="#00000000"
```

```
  android:strokeColor="#111111"
```

```
  android:strokeLineCap="round" />
```

```
<group>
```

```
  <clip-path
```

```
    android:pathData="M67.06,0h75v44h-75z" />
```

```
  <path
```

```
    android:pathData="M135.35,0H73.78C73.52,0 73.27,0 73.01,0C72.79,0 72.58,0 72.36,0.01C71.89,0.02 71.42,0.05 70.95,
```

```
    android:fillColor="#000000" />
```

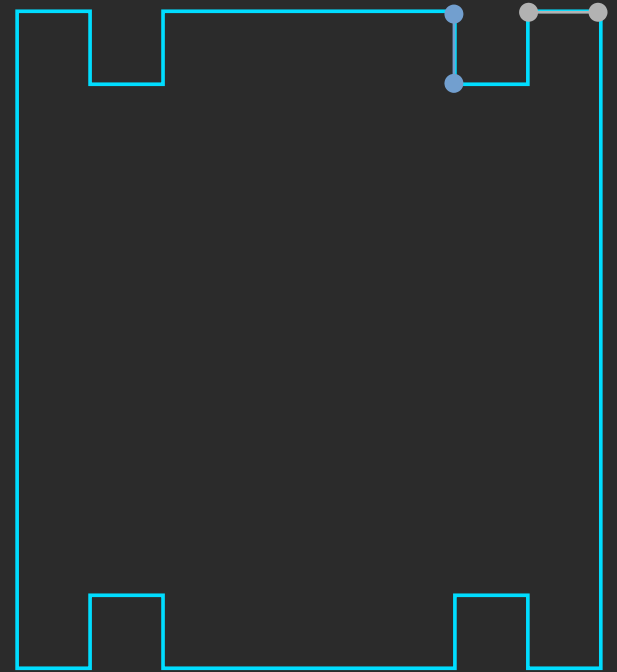
```
  <path
```

```
    android:pathData="M135.35,1.47L136.1,1.47C136.31,1.47 136.51,1.47 136.72,1.48C137.08,1.49 137.5,1.5 137.89,1.57C1
```

```
    android:fillColor="#ffffff" />
```

```
M24,24m-18,0a18,18 0,1 1,36 0a18,18 0,1 1,-36 0  
M6,24a18,18 0,1 1,36 0a18,18 0,1 1,-36 0
```

M18, 3v2h-2L16, 3L8, 3v2L6, 5L6, 3L4, 3v18h2v-2h2<sup>118</sup>  
v2h8v-2h2v2h2L20, 3h-2z



```
<path
```

```
  android:pathData="squi|"
```

```
  android:fillColor
```

```
/>
```

`squircle`

Squircle(halfWidth, halfHeight) in SVG pathData

`squircleCcw`

Squircle(halfWidth, halfHeight) in SVG pathData

Ctrl+Down and Ctrl+Up will move caret down and up in the editor [Next Tip](#)



```
pathData="m0,10c0,-10 0,-10 10,-10s10,0 10,10s0,10 -10,10s-10,0 -10,-10z"  
fillColor="#fff"
```



```
<path
```

```
  android:pathData="m0,10c0,-10 0,-10 10,-10s10,0 10,10s0,10 -10,10s=
  M10,10
  squi"
```

**squircle** Squircle(halfWidth, halfHeight) in SVG pathData

**squircleCcw** Squircle(halfWidth, halfHeight) in SVG pathData

Ctrl+Down and Ctrl+Up will move caret down and up in the editor [Next Tip](#)




```
<path
  android:pathData="m0,10c0,-10 0,-10 10,-10s10,0 10,10s0,10 -10,10s-
  M10,10
  m0,10c0,10 0,10 10,10s10,0 10,-10s0,-10 -10,-10s-10,0 -10,10z"
  android:fillColor="#fff"
/>
```



# ИТОГО

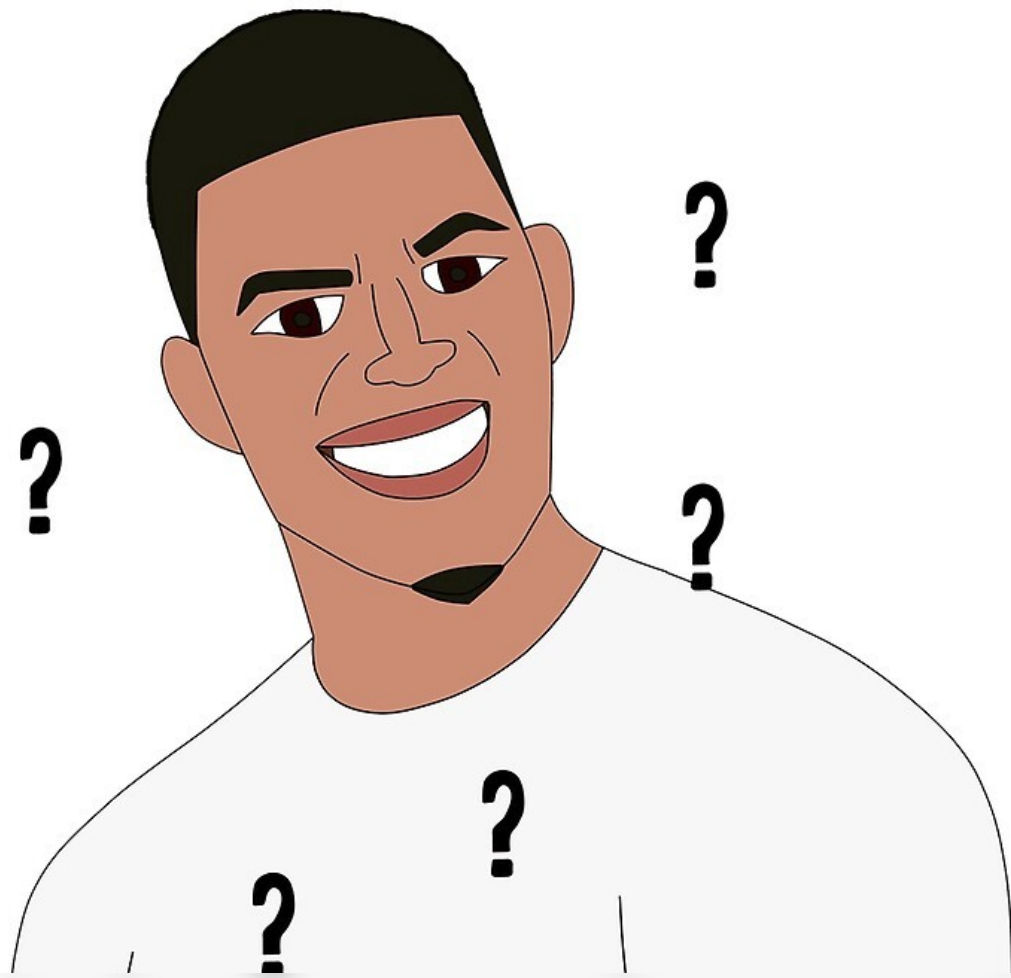
- $SVG > VD$

# ИТОГО

- SVG > VD
- SVGO, Avocado 

# ИТОГО

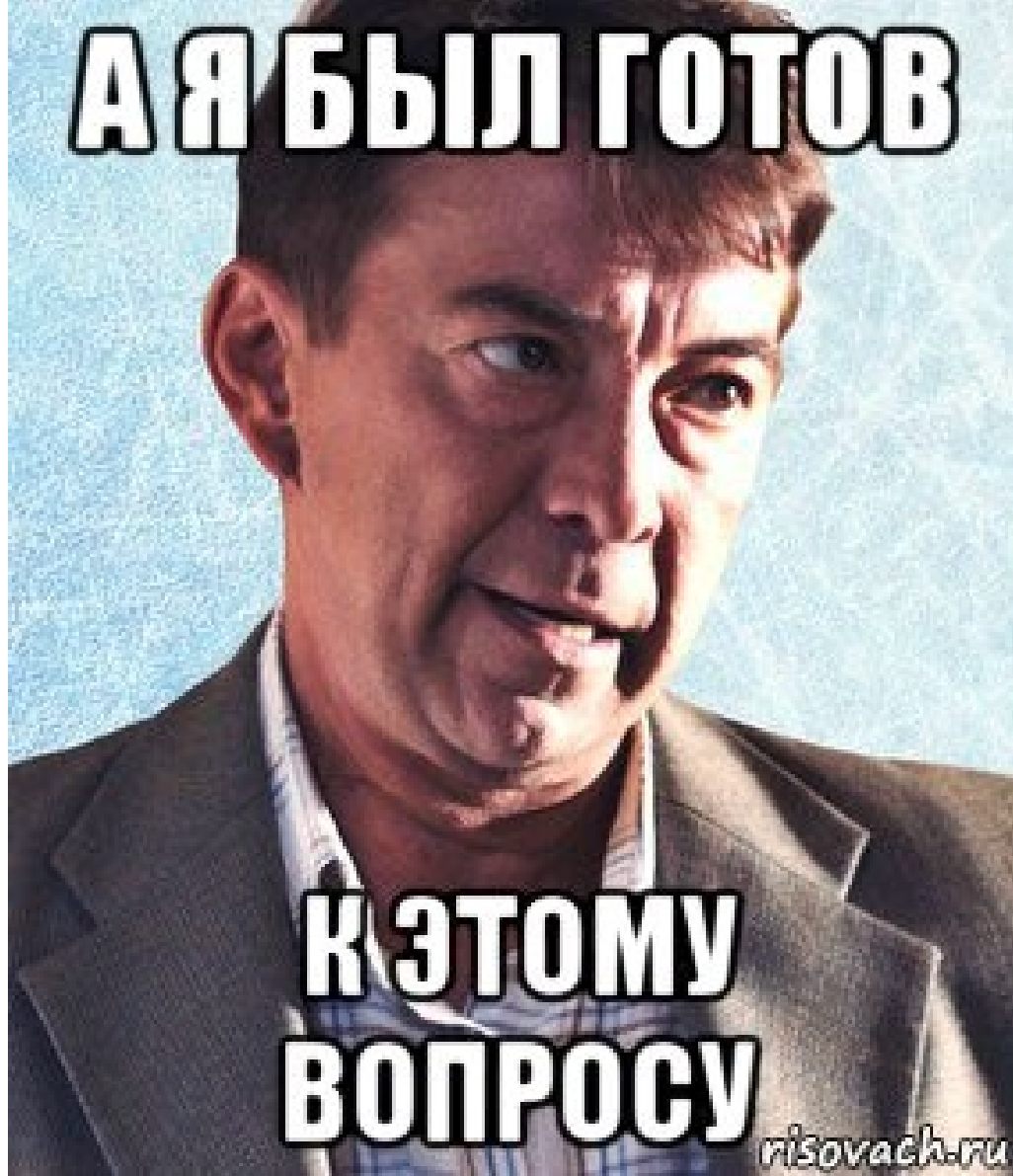
- SVG > VD
- SVG0, Avocado ♡
- IntelliJ/AS + MX ♡



Михаил Горюнов

 @Miha-x64

 @Harmonizr at android\_ru, spbpeerlab, javanese\_online



**А Я БЫЛ ГОТОВ**

**К ЭТОМУ  
ВОПРОСУ**

risovach.ru

A man in a black tuxedo with a white shirt and black bow tie is sitting in a chair. He has a red boutonniere on his lapel and is holding a small, light-colored dog in his hands. The background consists of dark wooden blinds with light filtering through. The overall mood is serious and somewhat somber.

**ПООСТОРОЖНЕЕ С ЭТИМ  
ВОПРОСОМ**