

# Frame Animation Sequence

Source: [https://github.com/yttiktak/inkscape\\_extension\\_animate](https://github.com/yttiktak/inkscape_extension_animate)

Create svg path animation from frames: Place each frame of the animation in a layer named 'frame'. Each of these layers should have the same number of paths, and each path should have the same number of points as the corresponding path in other layers. The animation is applied to the paths in the first layer in the sequence, so the properties of that layer are used. Animations with different numbers of frames can be put into different sequences, named 'sequence', using sub-groups:

## Layers structure example

```
not_animated_layer1
sequence
  frame
    path1a
    path2a
  frame
    path1b
    path2b
  frame
    path1c
    path2c
  frame
    path1d
    path2d
sequence
  frame
  frame
  frame
```

Use layer named exactly 'frame' and groups named exactly 'sequence', not, eg, frame1 frame2 frame3 !

## SVG Example

The `svg:animate` elements were created using this extension

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!-- Created with Inkscape (http://www.inkscape.org/) -->

<svg
  sodipodi:docname="test.svg"
  inkscape:version="1.1 (c68e22c387, 2021-05-23)"
  id="svg5"
  version="1.1"
  viewBox="0 0 196.29599 203.26439"
  height="203.26439mm"
  width="196.29599mm"
  xmlns:inkscape="http://www.inkscape.org/namespaces/inkscape"
  xmlns:sodipodi="http://sodipodi.sourceforge.net/DTD/sodipodi-0.dtd"
  xmlns="http://www.w3.org/2000/svg"
  xmlns:svg="http://www.w3.org/2000/svg">
  <sodipodi:namedview
    id="namedview7"
    pagecolor="#ffffff"
    bordercolor="#666666"
    borderopacity="1.0"
    inkscape:pageshadow="2"
    inkscape:pageopacity="0.0"
    inkscape:pagecheckerboard="0"
    inkscape:document-units="mm"
    showgrid="false"
    inkscape:zoom="0.63250561"
    inkscape:cx="222.92292"
    inkscape:cy="560.46934"
    inkscape:window-width="1920"
    inkscape:window-height="1011"
    inkscape:window-x="0"
    inkscape:window-y="0"
    inkscape:window-maximized="1"
    inkscape:current-layer="3" />
  <defs
    id="defs2" />
  <g
    inkscape:label="sequence"
```

```
inkscape:groupmode="layer"
id="sequence"
transform="translate(-13.540733, -0.43540987)">
<g
  inkscape:groupmode="layer"
  id="1"
  inkscape:label="frame">
  <path
    style="fill:none;stroke:#000000;stroke-width:0.264583px;stroke-linecap:butt;stroke-
linejoin:miter;stroke-opacity:1"
    d="m 53.238722,112.56222 c -0.427144,2.82588 -39.597237,48.85805 -39.597237,48.85805"
    id="path1a">
  <animate
    attributeName="d"
    attributeType="XML"
    begin="0"
    dur="9.1"
    repeatCount="indefinite"
    values="m 53.238722,112.56222 c -0.427144,2.82588 -39.597237,48.85805 -
39.597237,48.85805;
M 90.991176,37.047614 C 90.564032,39.873491 51.393939,85.905662 51.393939,85.905662" />
  </path>
  <path
    style="fill:none;stroke:#000000;stroke-width:0.264583px;stroke-linecap:butt;stroke-
linejoin:miter;stroke-opacity:1"
    d="m 58.62681,152.54616 24.761296,51.09595"
    id="path2a">
  <animate
    attributeName="d"
    attributeType="XML"
    begin="0"
    dur="9.1"
    repeatCount="indefinite"
    values="m 58.62681,152.54616 24.761296,51.09595;
M 96.379264,77.031553 121.14056,128.1275" />
  </path>
</g>
<g
  inkscape:groupmode="layer"
  id="2"
```

```
    inkscape:label="frame">
  <path
    style="fill:none;stroke:#000000;stroke-width:0.264583px;stroke-linecap:butt;stroke-
linejoin:miter;stroke-opacity:1"
    d="M 90.991176,37.047614 C 90.564032,39.873491 51.393939,85.905662
51.393939,85.905662"
    id="path1b" />
  <path
    style="fill:none;stroke:#000000;stroke-width:0.264583px;stroke-linecap:butt;stroke-
linejoin:miter;stroke-opacity:1"
    d="M 96.379264,77.031553 121.14056,128.1275"
    id="path2b" />
  <g
    id="3"
    inkscape:groupmode="layer"
    inkscape:label="frame">
    <path
      style="fill:none;stroke:#000000;stroke-width:0.264583px;stroke-linecap:butt;stroke-
linejoin:miter;stroke-opacity:1"
      d="M 179.5683,0.455182 C 179.14115,3.281059 139.97106,49.31323 139.97106,49.31323"
      id="path1c" />
    <path
      style="fill:none;stroke:#000000;stroke-width:0.264583px;stroke-linecap:butt;stroke-
linejoin:miter;stroke-opacity:1"
      d="m 184.95639,40.439121 24.76129,51.095947"
      id="path2c" />
  </g>
</g>
</g>
</svg>
```

Visual Output:

<https://videos.stadtfabrikanten.org/videos/embed/wFrd9Hi1wDeW4GRDTXg2WC>

Version #1

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