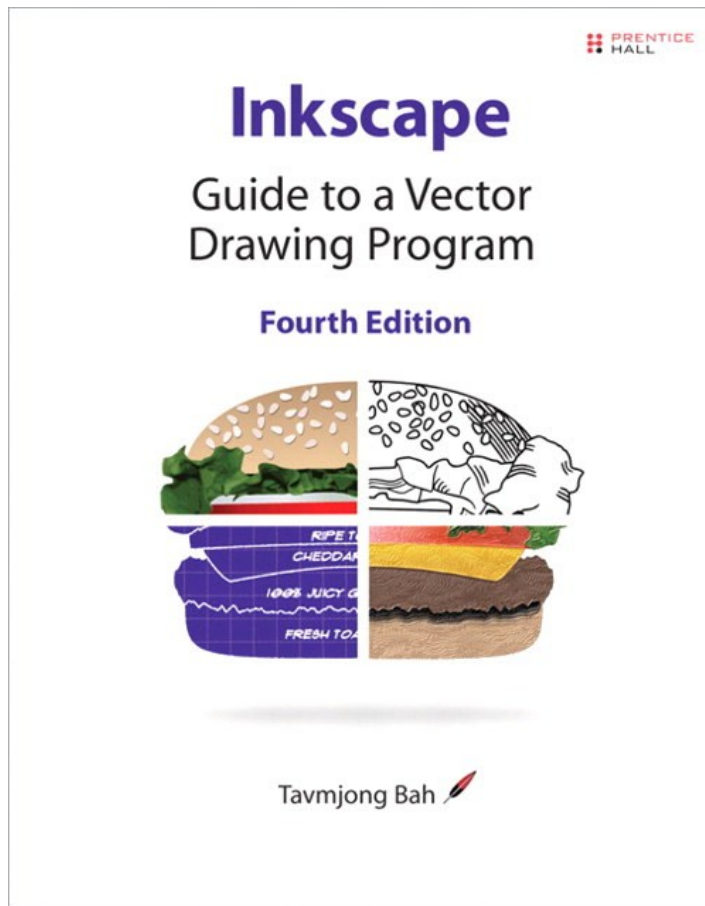


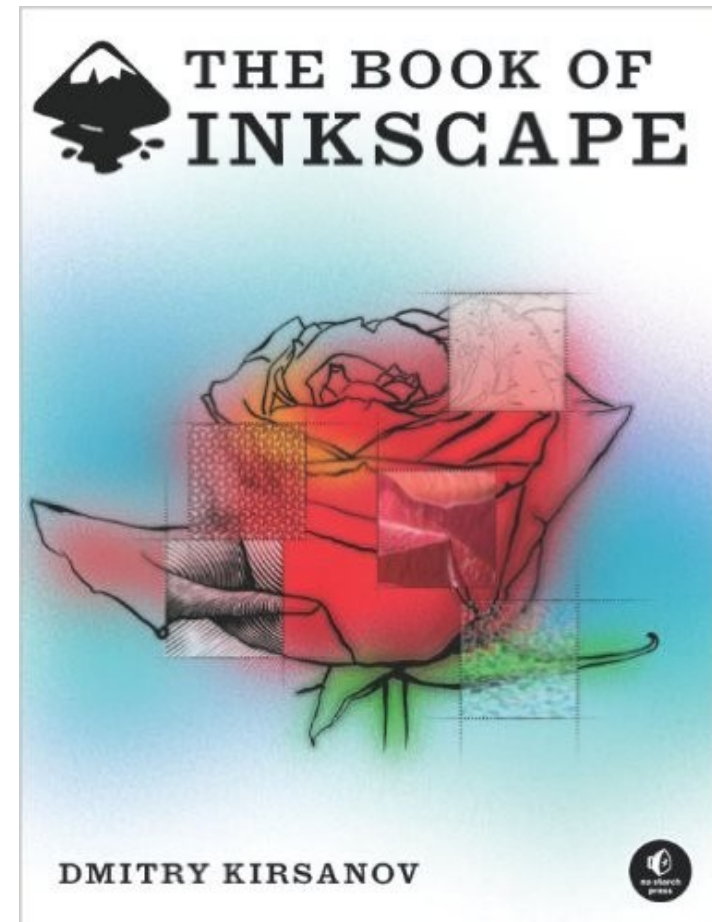
# Technical Drawing with Inkscape

Ted Gould  
@tedjgould  
July 8<sup>th</sup>, 2016  
Texas Linux Fest





<http://tarmjong.free.fr/INKSCAPE/MANUAL/html/index.php>



ISBN-13: 978-1593271817

<https://inkscape.org/en/learn/>

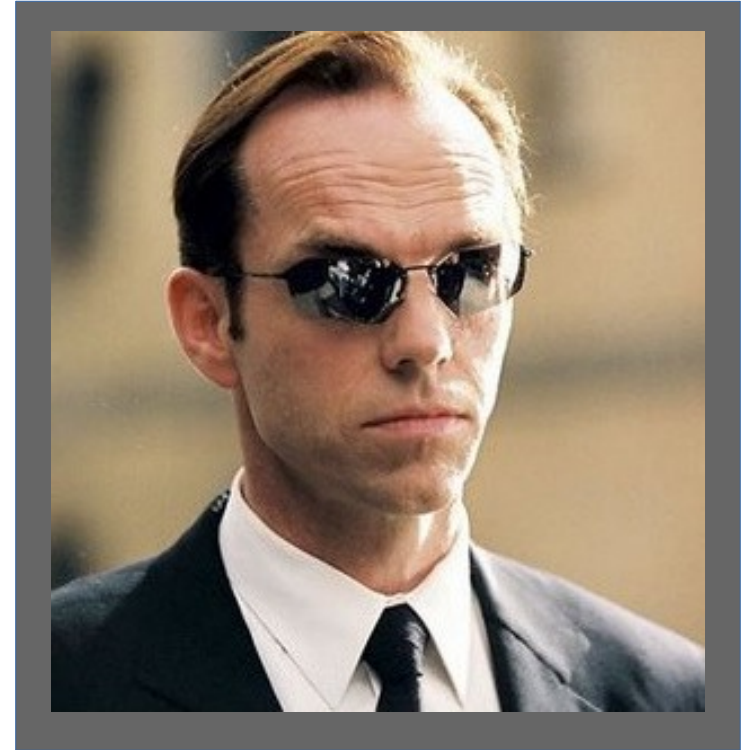


## Engineering



**Engineering**

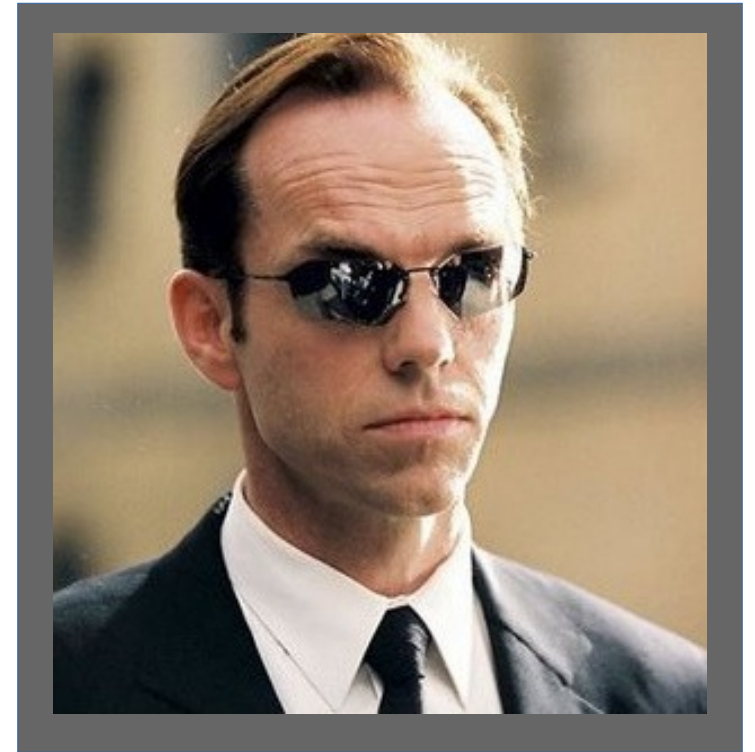
Idea  
→



**Management**



**Engineering**



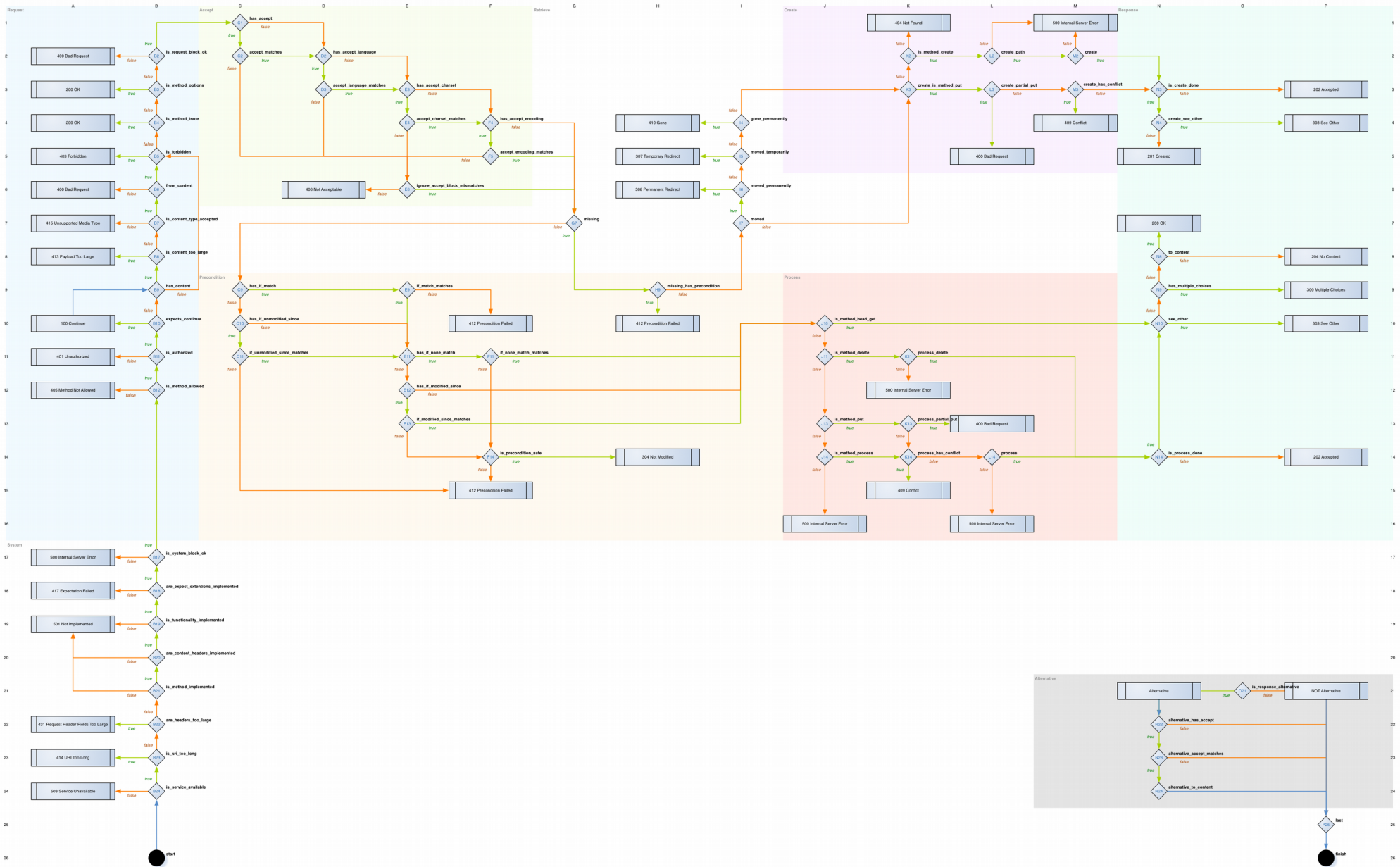
**Management**

**Protip:  
Focus**



# HTTP decision diagram (v4.0.201410)

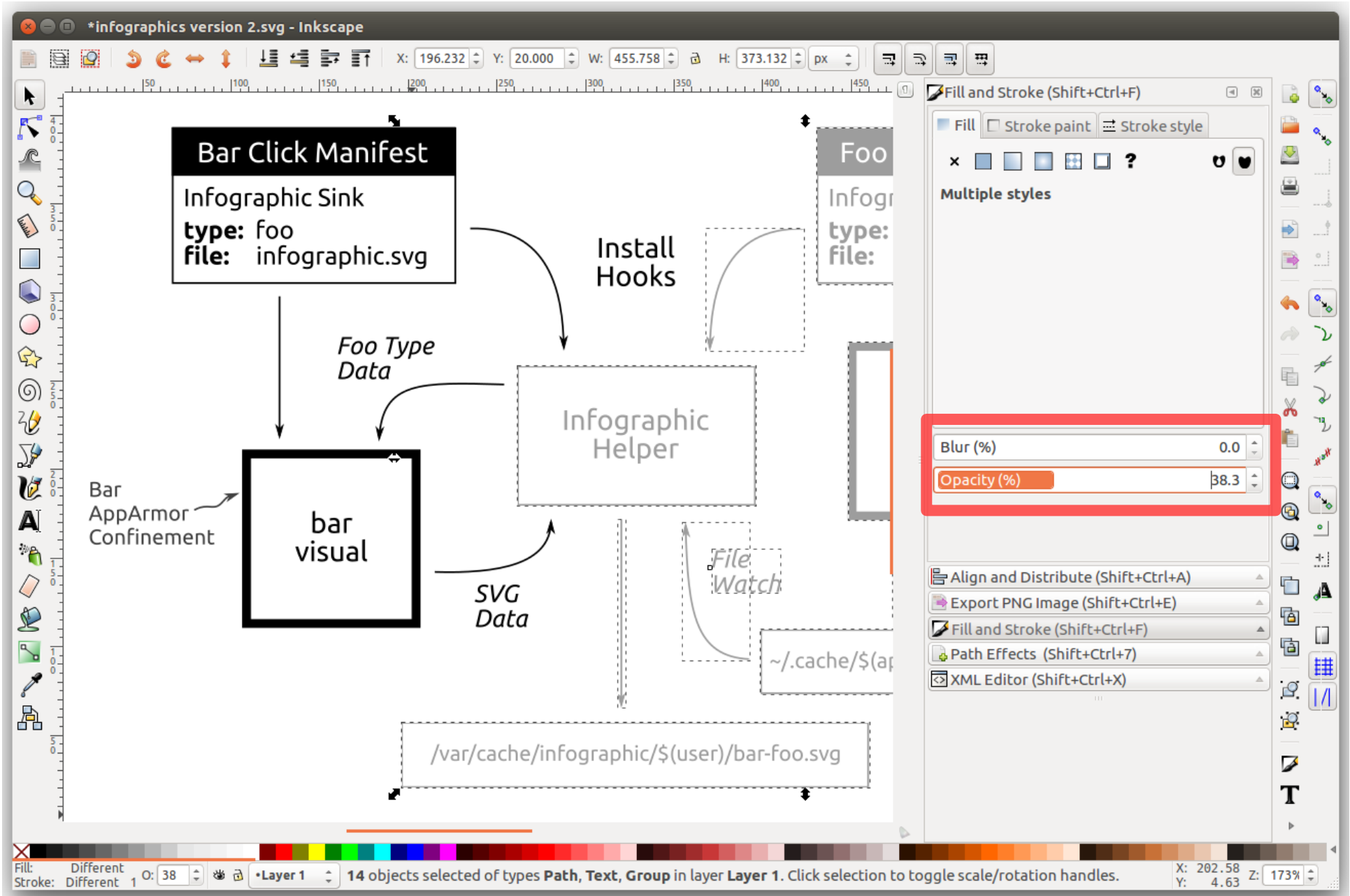
An activity diagram to describe the resolution of HTTP response status codes, given various methods and headers, represented as annotated callbacks.  
 source: <https://github.com/GET/http-decision-diagram>  
 v1-v3 source: <https://code.google.com/p/http-headers-status>

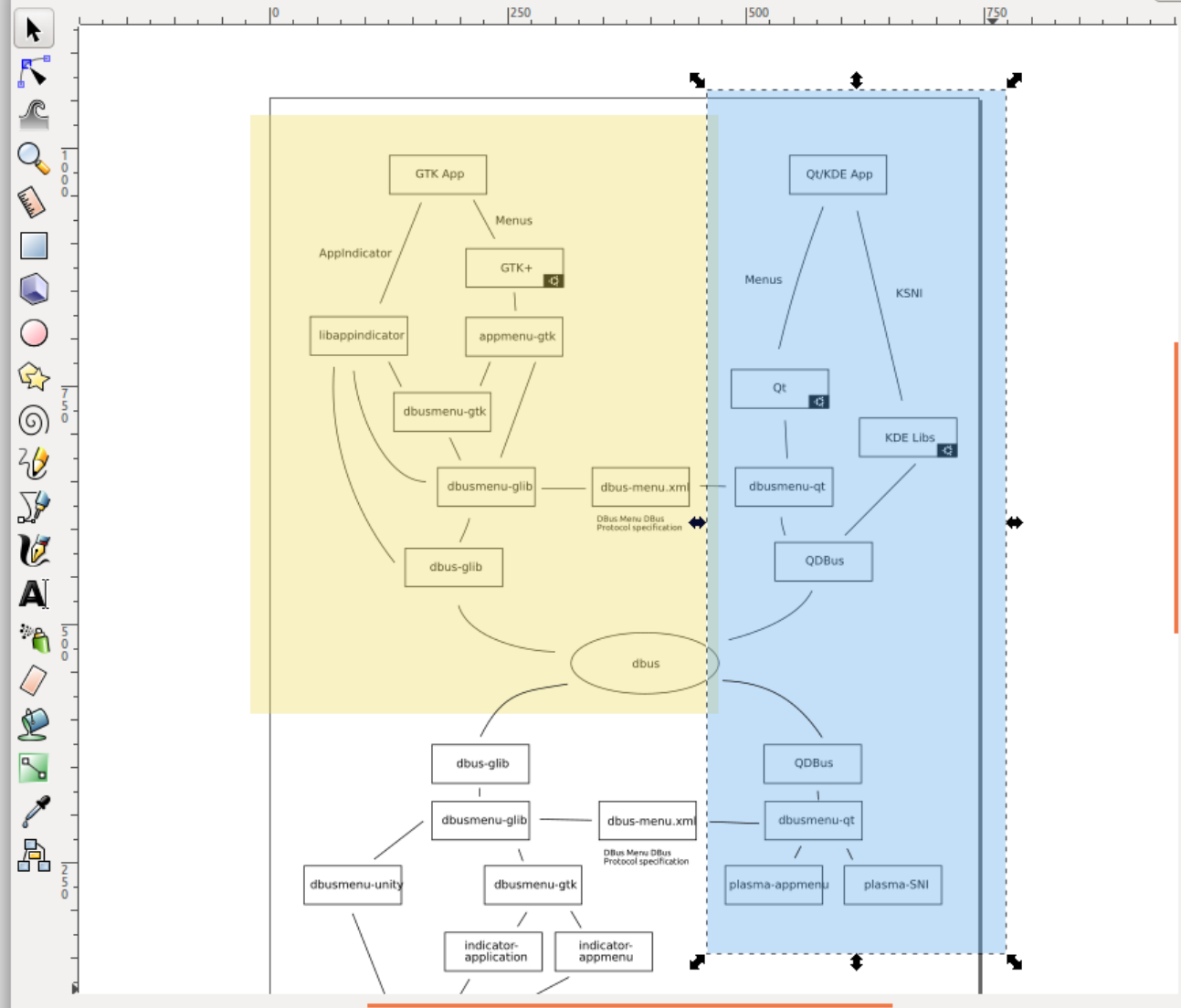


# Simplify the Slide

- One slide, one piece of information
- What is that piece of information?
- Am I showing anything else?
- Is that other stuff avoidable?







**Export PNG Image (Shift+Ctrl+E)**

Export area: Page, Drawing, Selection, Custom

x0: 458.571 y0: 154.286  
x1: 772.857 y1: 1061.429  
Width: 314.286 Height: 907.143  
Units: px

Image size: Width: 314 pixels at 90.00 dpi  
Height: 907 pixels at 90.00 dpi

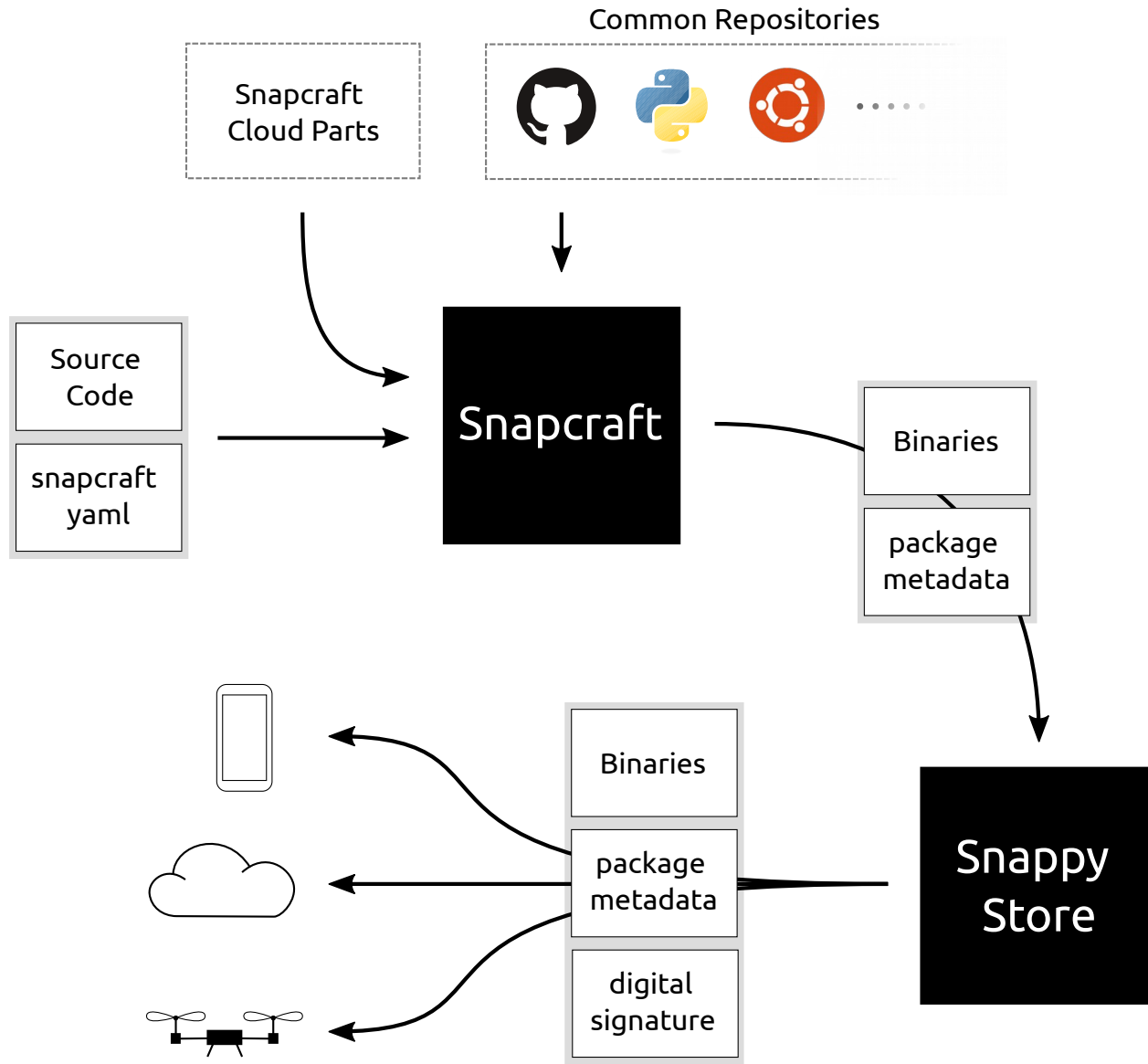
Filename:

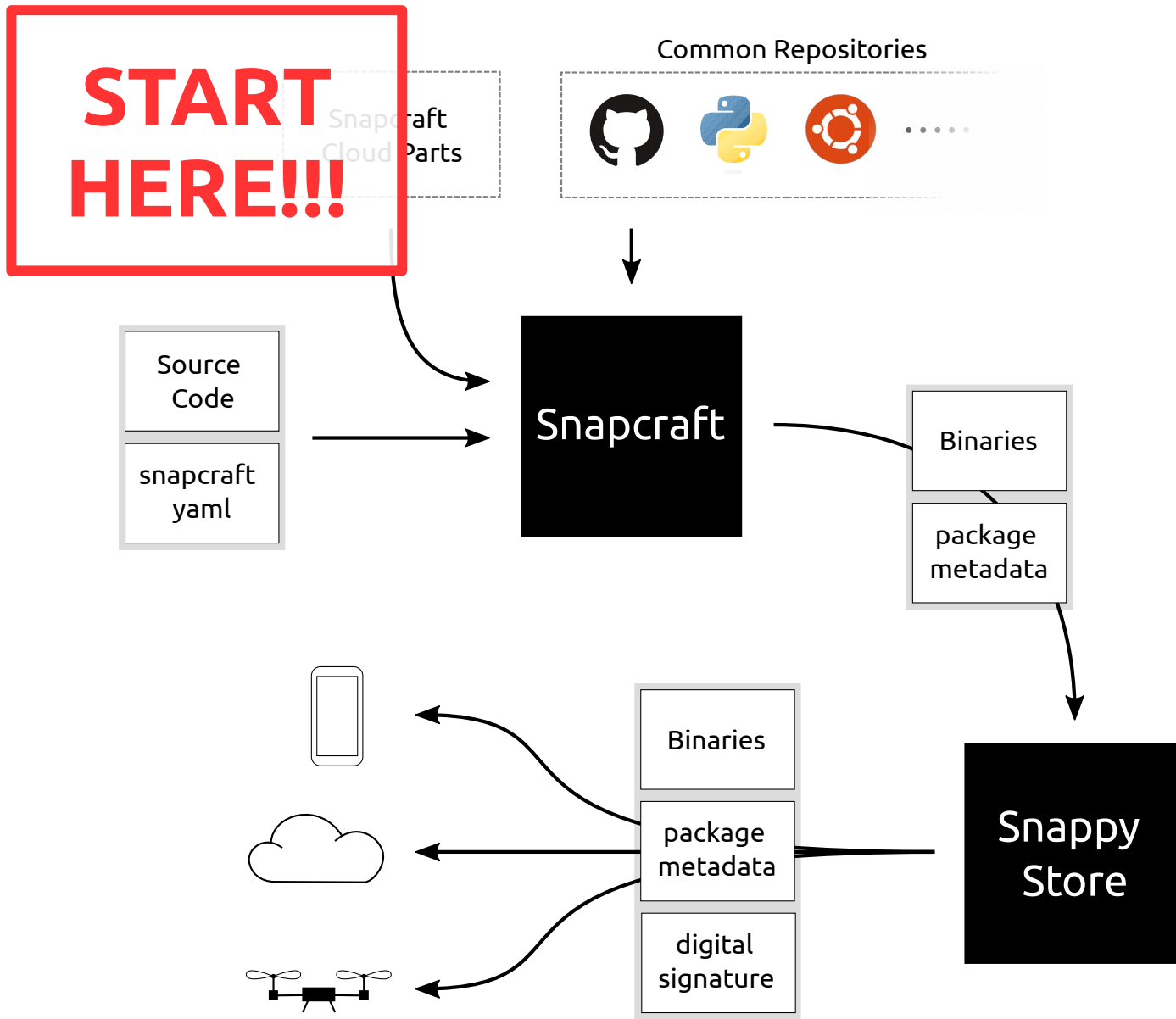
Batch export all selected objects  
 Hide all except selected  
 Close when complete

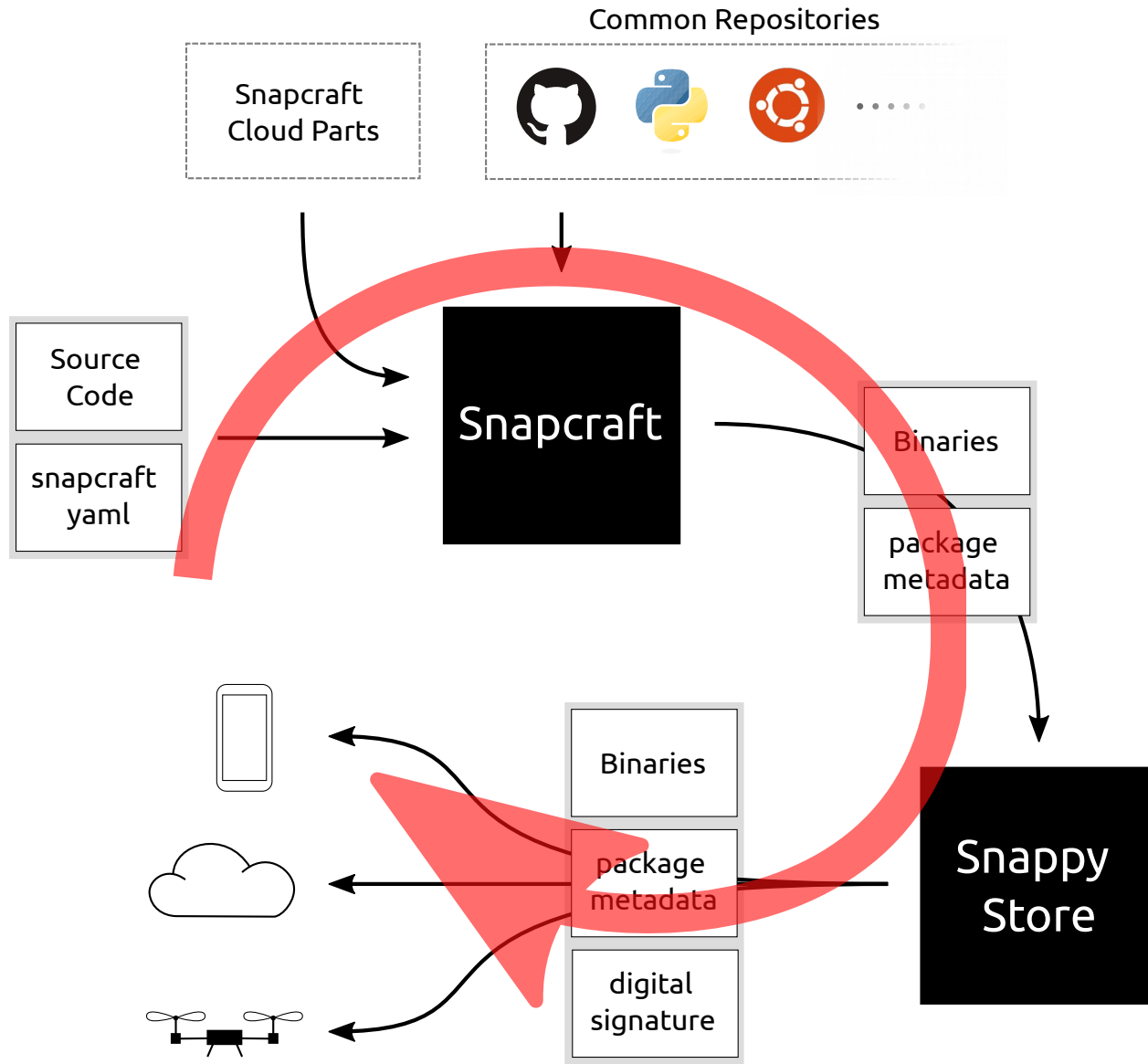
Align and Distribute (Shift+Ctrl+A)  
Export PNG Image (Shift+Ctrl+E)  
Fill and Stroke (Shift+Ctrl+F)  
Path Effects (Shift+Ctrl+7)  
XML Editor (Shift+Ctrl+X)

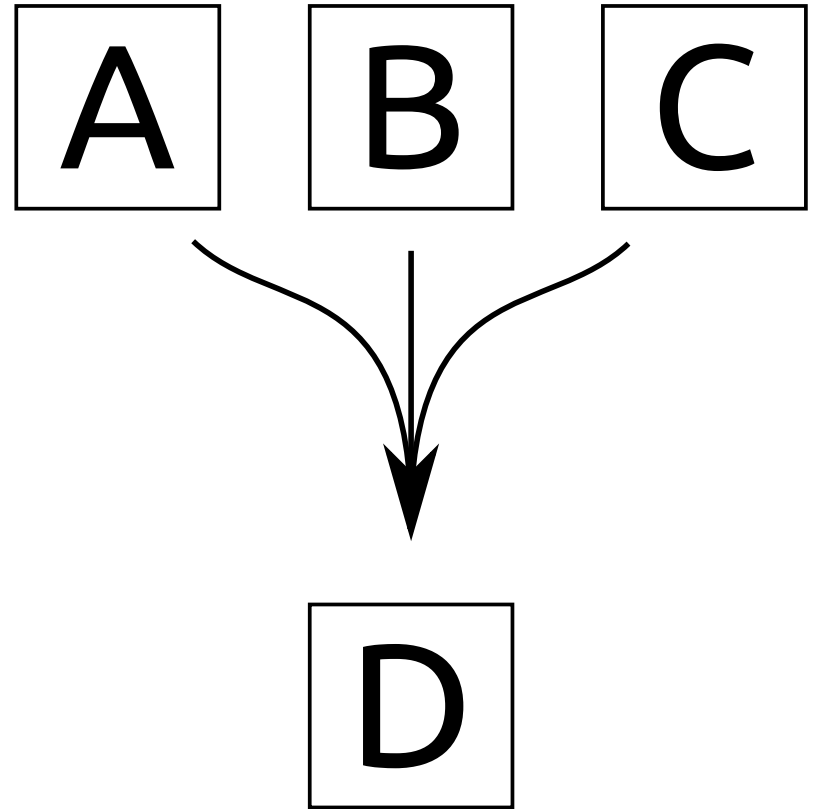
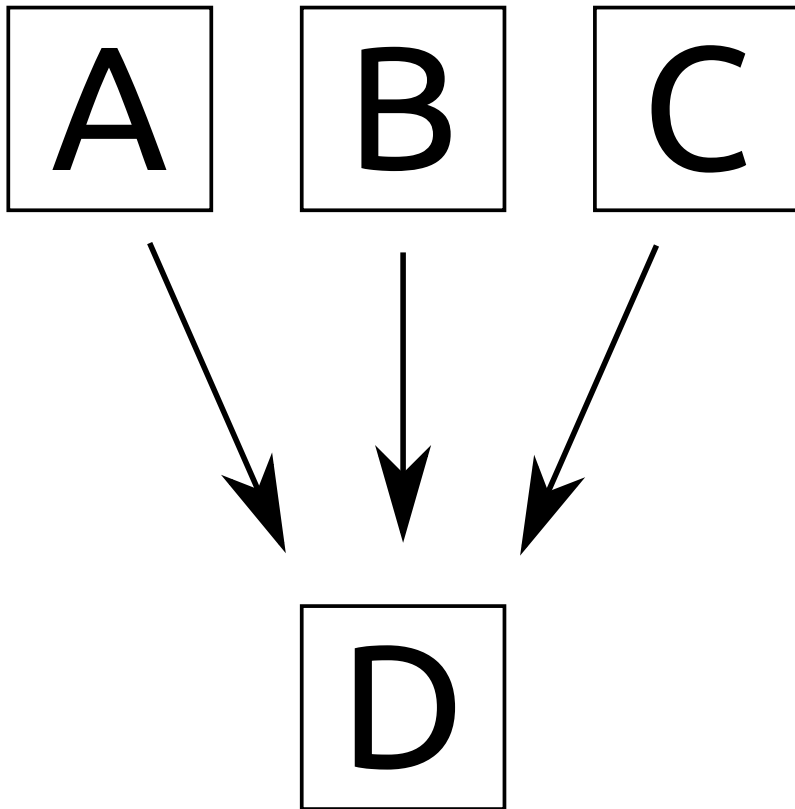


**Protip:  
Show Movement**

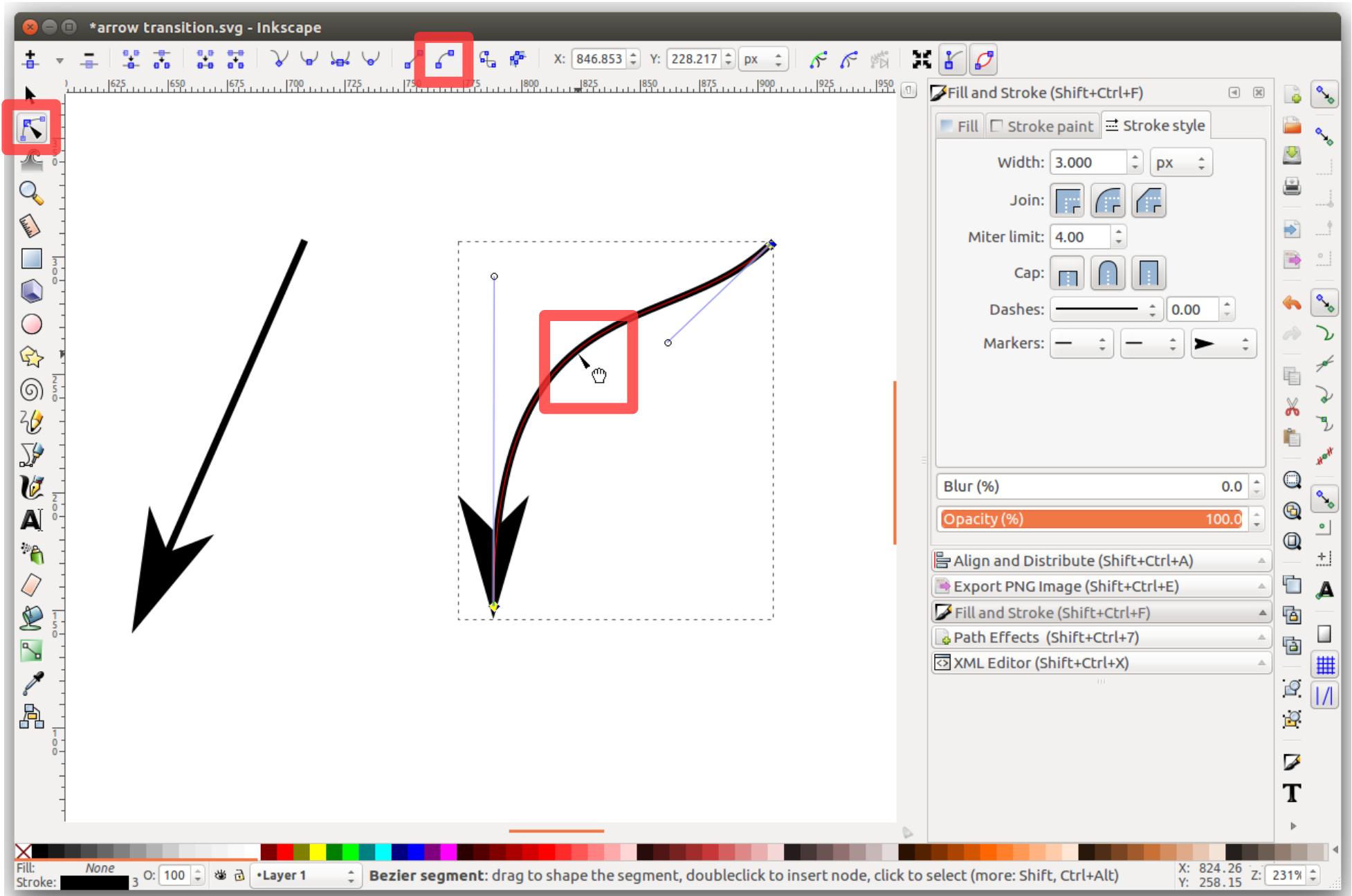




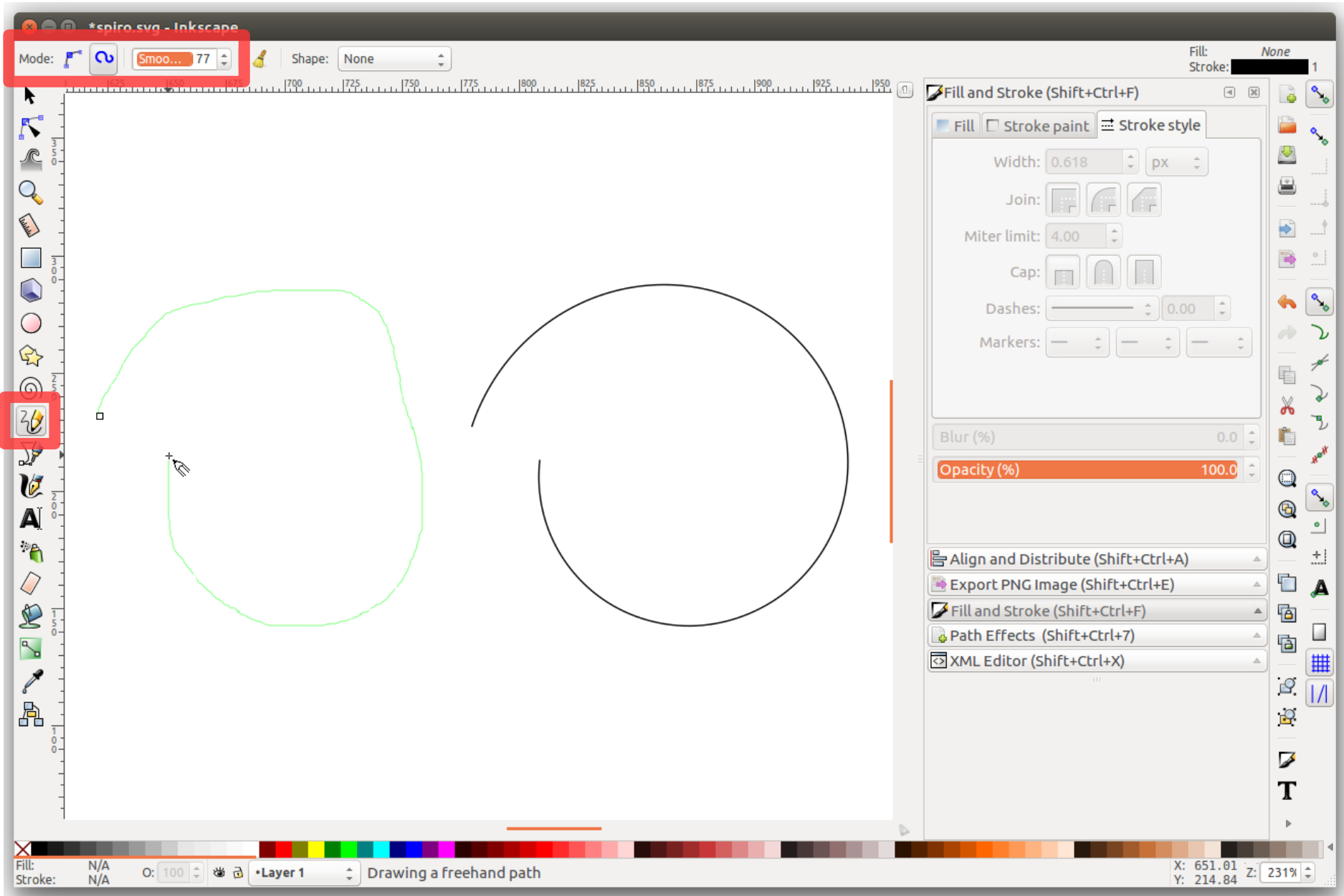




- Arrow head on ONE line
- Duplicate curves and Object → Flip Horizontal
- Move end points in

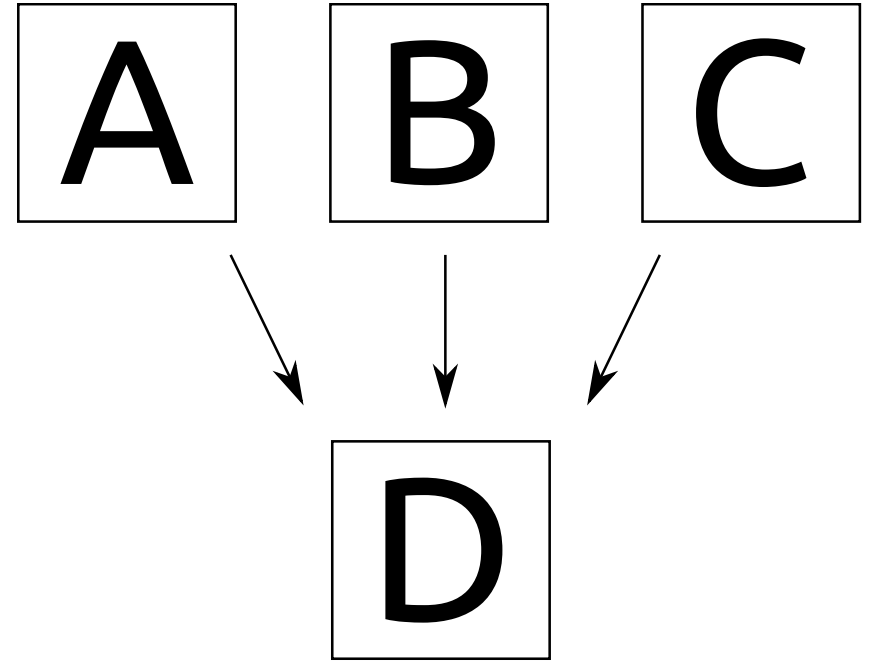
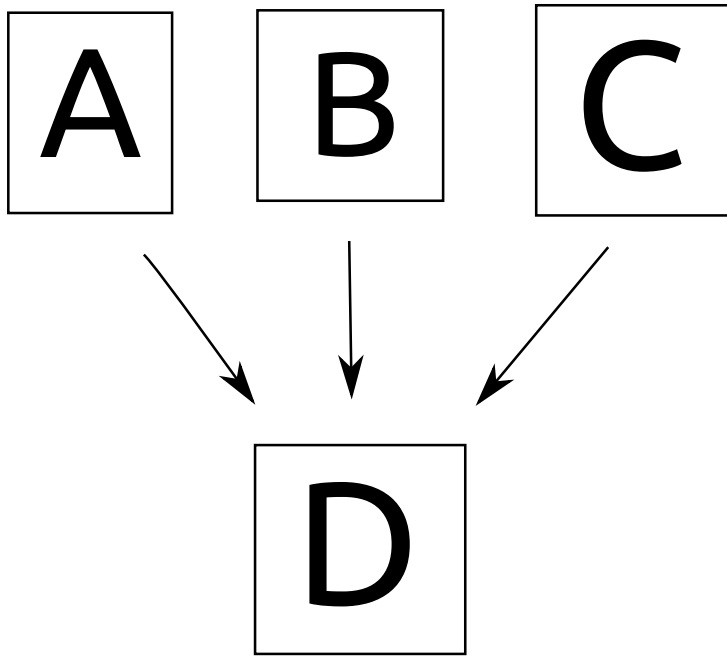




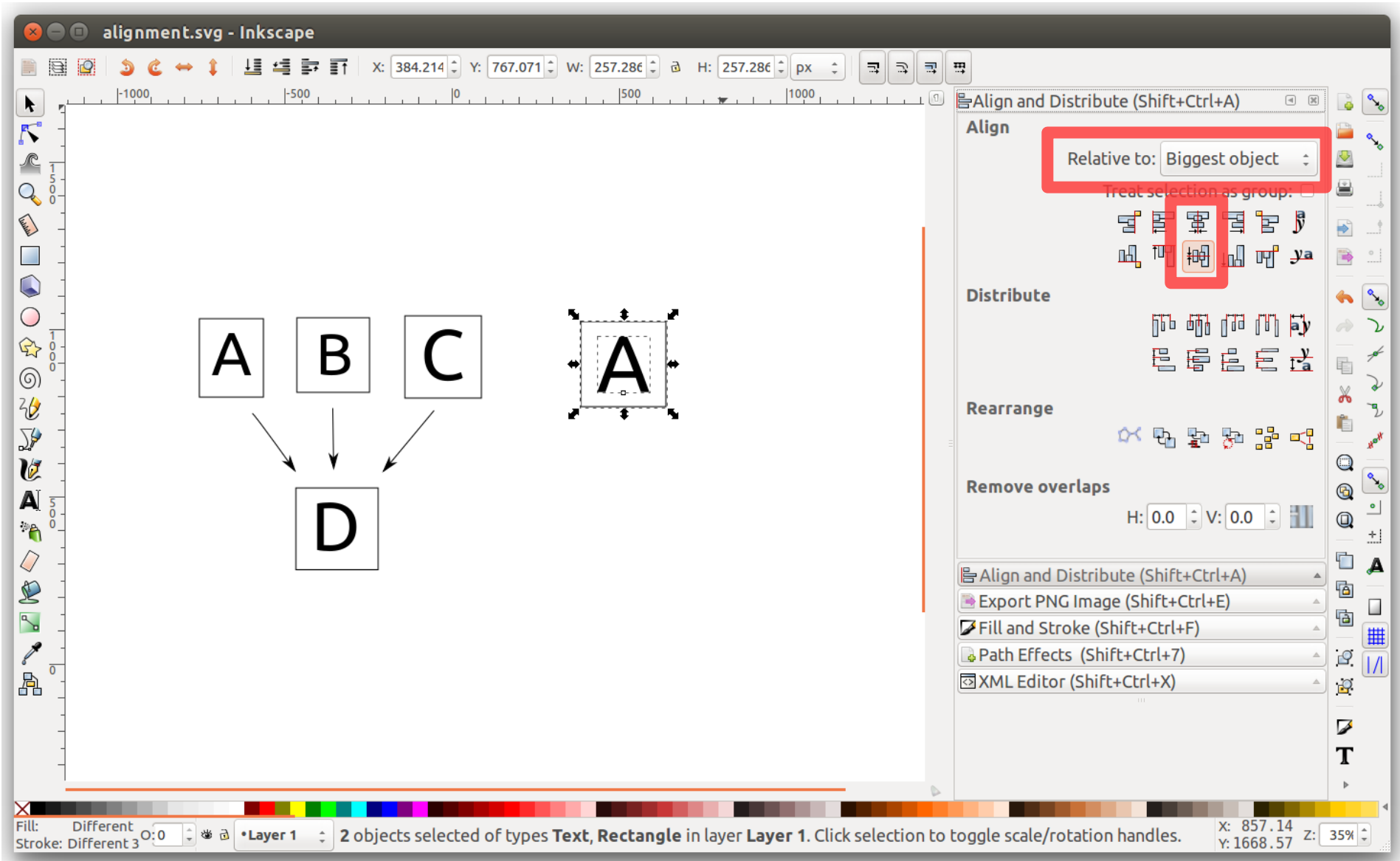


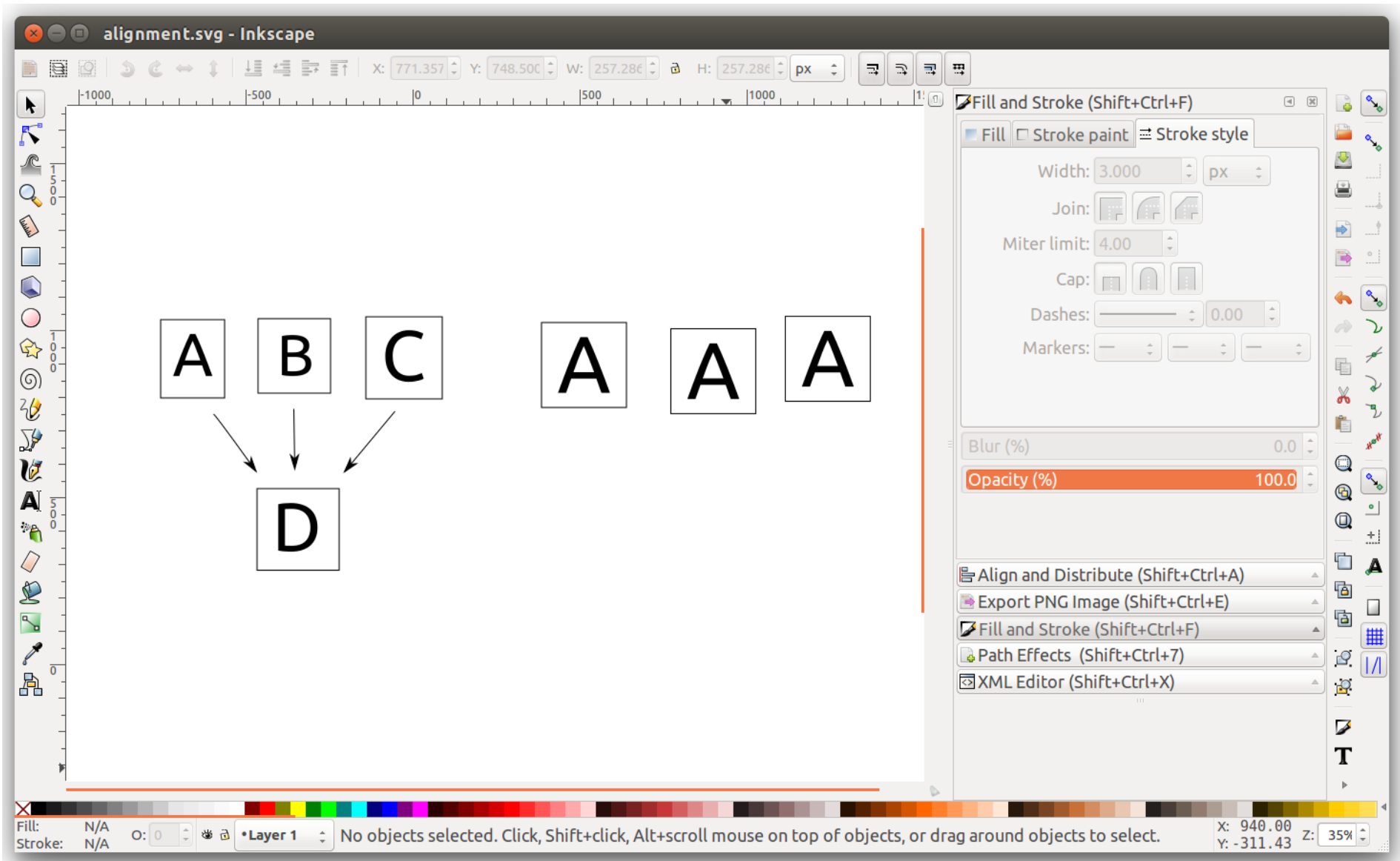
A high-angle, downward-looking view of a spiral staircase. The staircase is constructed from dark metal with railings that feature a repeating pattern of small, circular perforations. The steps are also visible, creating a series of concentric, overlapping arches that lead the eye towards the center of the spiral. The surrounding walls are made of light-colored wood, and the overall lighting is somewhat dim, highlighting the geometric patterns of the staircase.

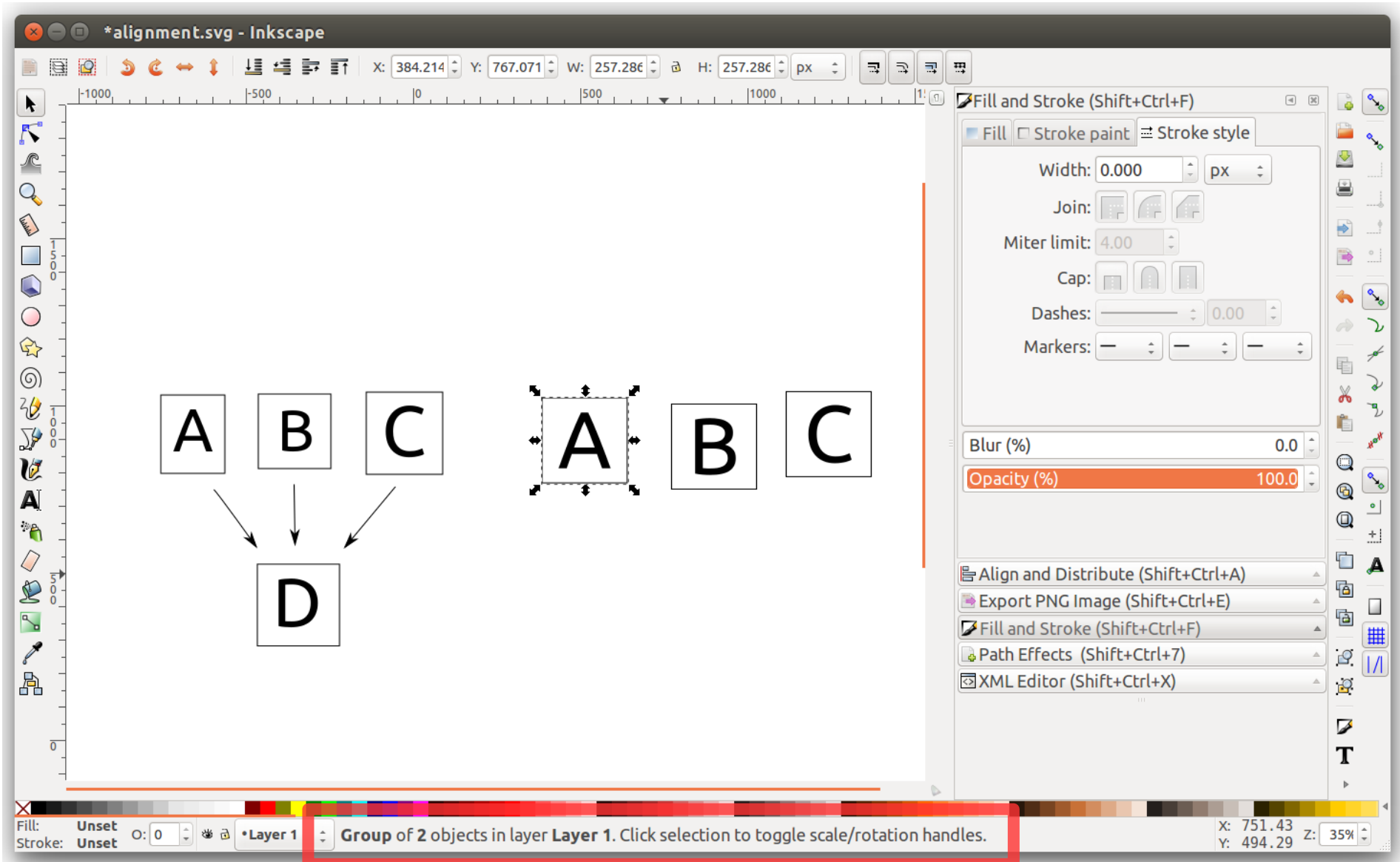
**Protip: Alignment**

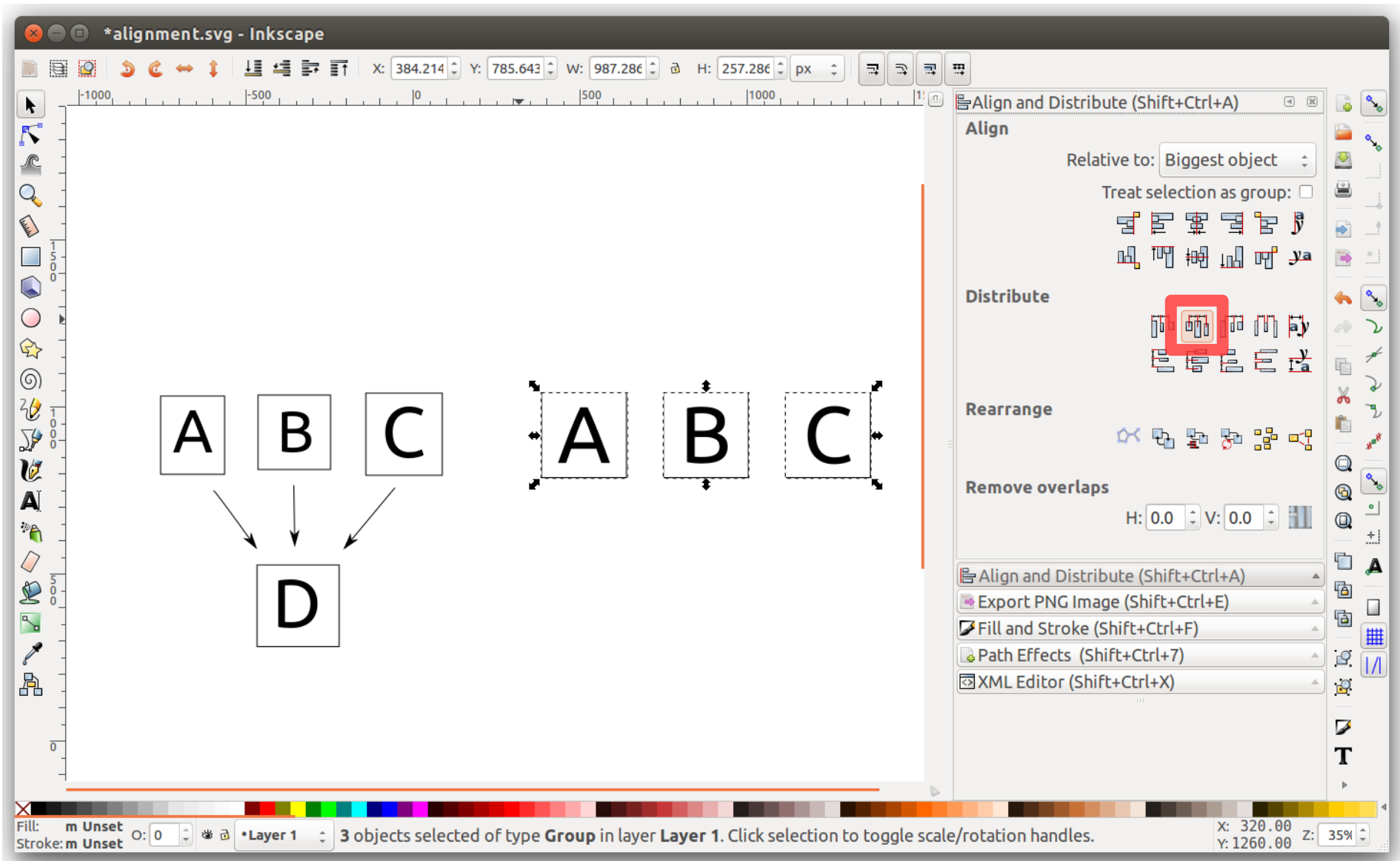


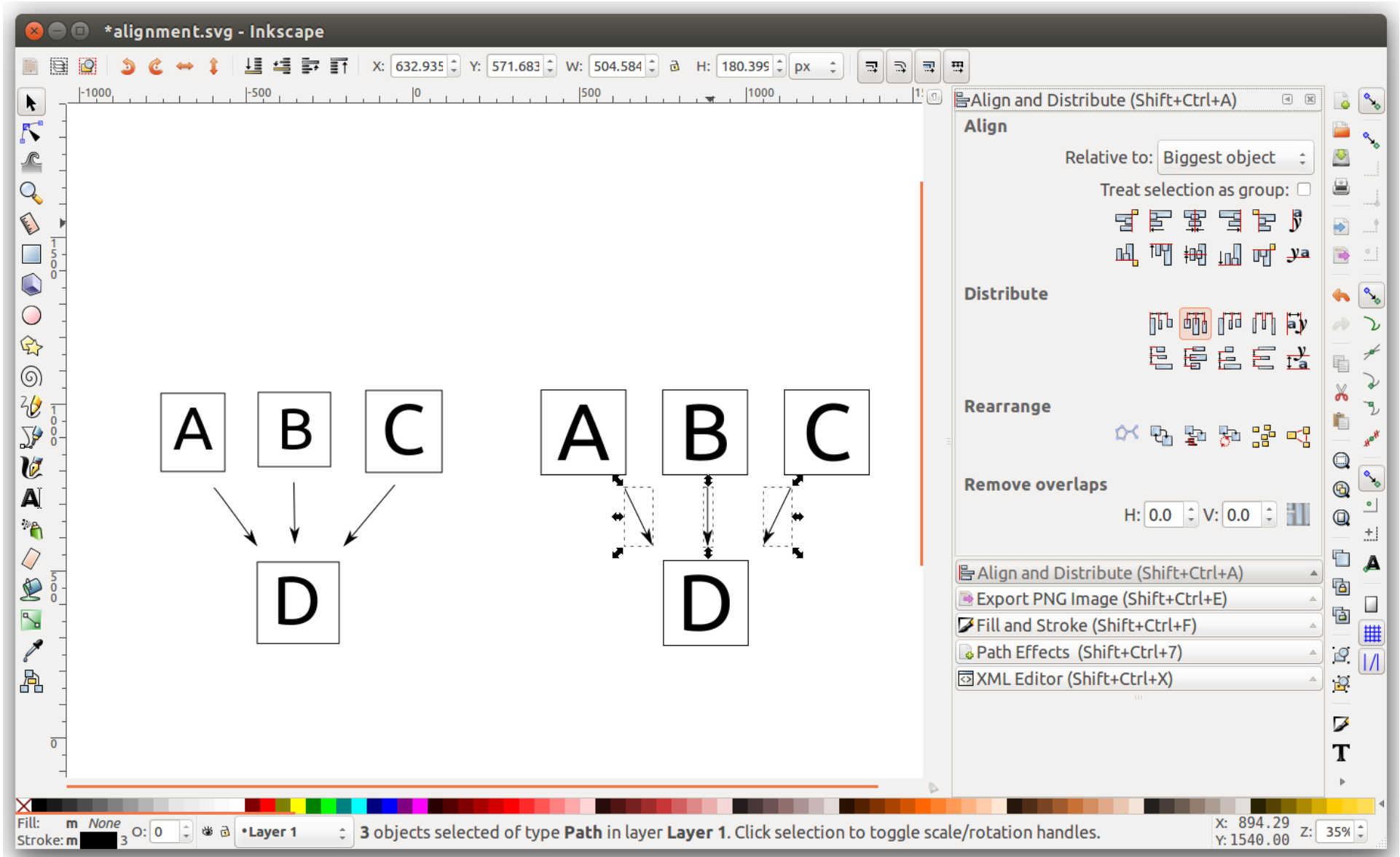
What is wrong with the diagram on the left?



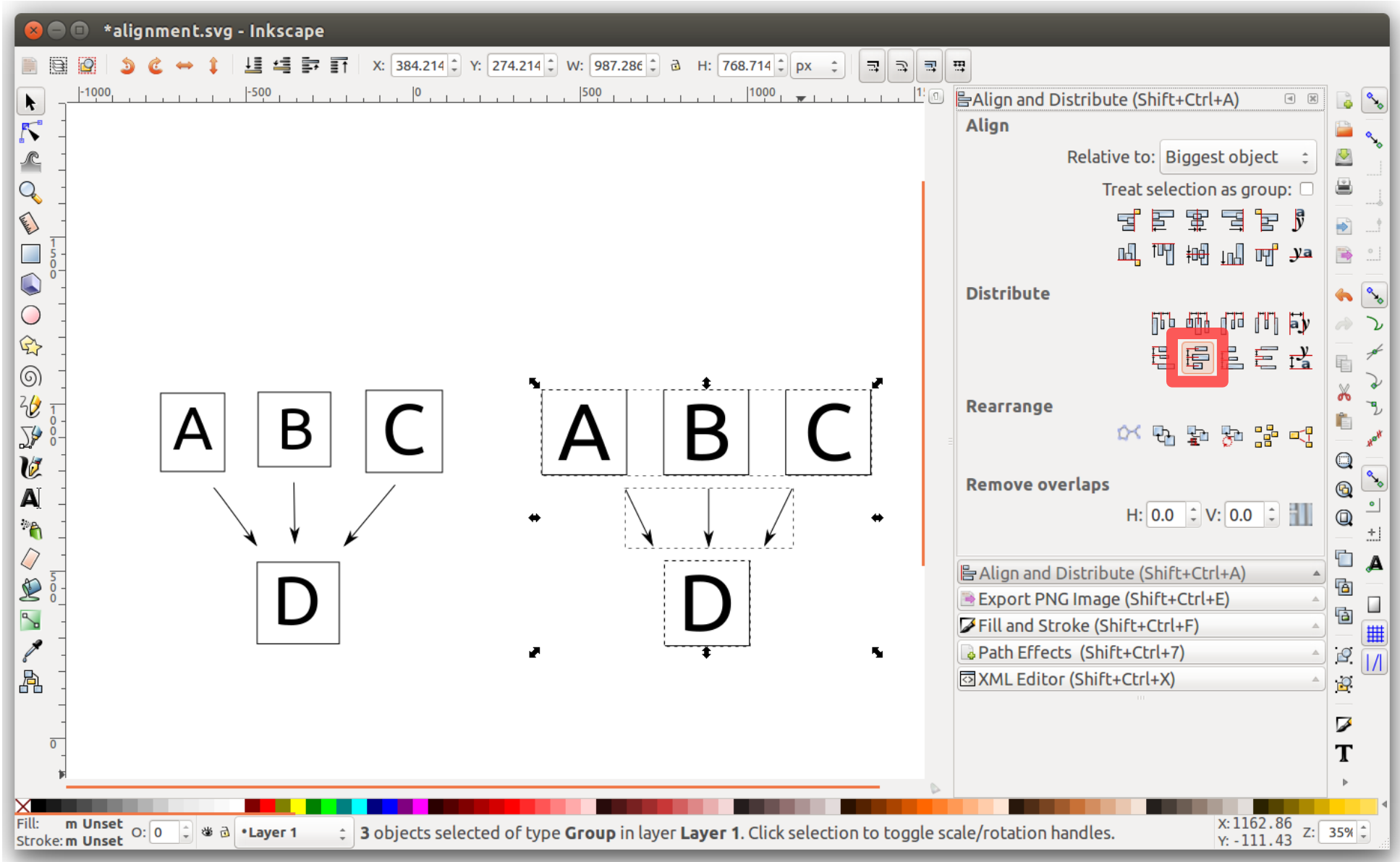












# Protip: Grow & Iterate

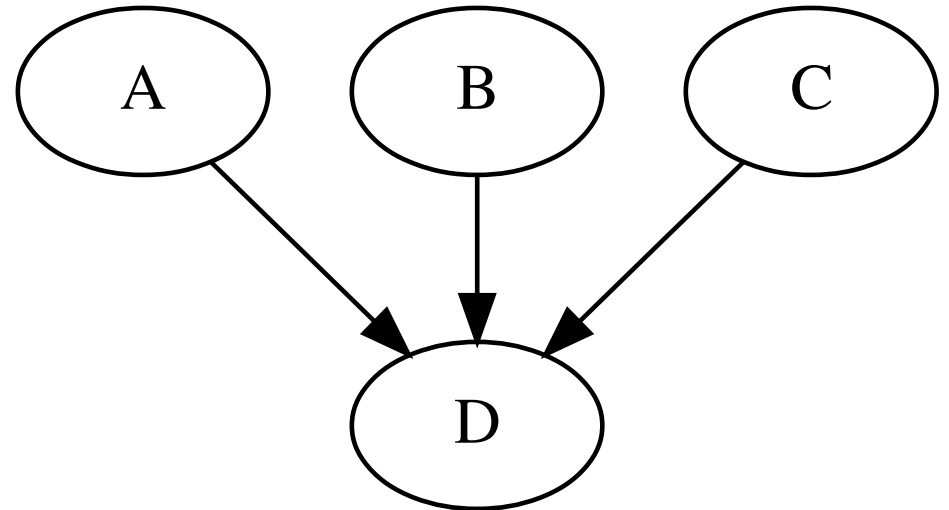




# Graphviz

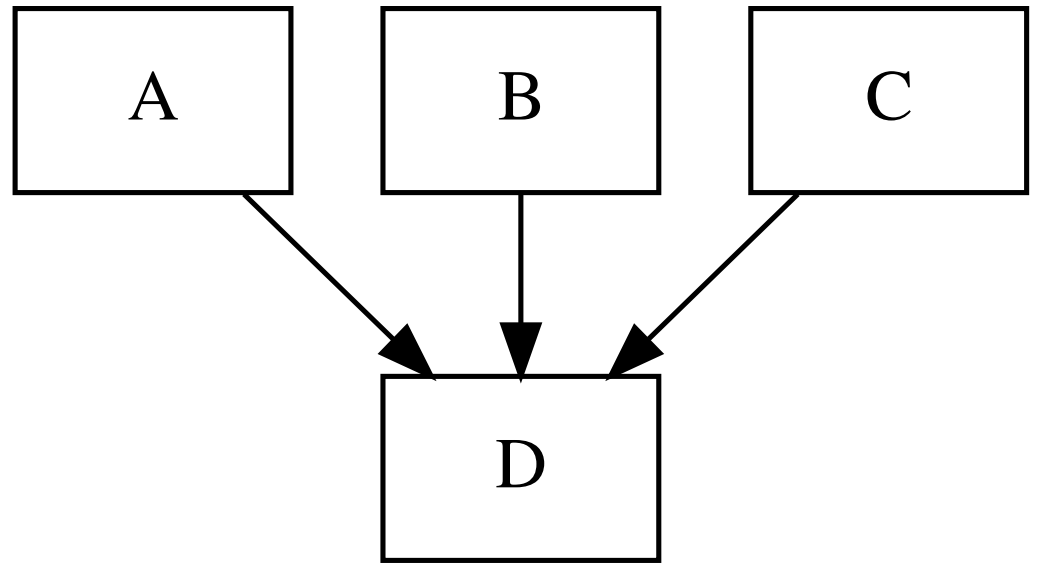
<http://graphviz.org/>

```
digraph {  
  A -> D;  
  B -> D;  
  C -> D;  
}
```



```
$ dot -Tsvg abcd.dot > abcd.svg
```

```
digraph {  
  a [shape=box, label=A];  
  b [shape=box, label=B];  
  c [shape=box, label=C];  
  d [shape=box, label=D];  
  a -> d;  
  b -> d;  
  c -> d;  
}
```



```

digraph {
  node [shape=box];

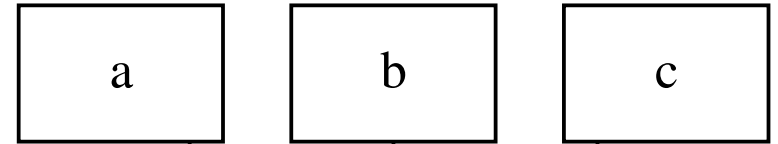
  { node [shape=plaintext];
    edge [style=invis];
    lev1 -> lev2 -> lev3;
    lev1 [label="Level 1"];
    lev2 [label="Level 2"];
    lev3 [label="Level 3"];
  }

  { rank=source; lev1; a; b; c; }
  { rank=same;   lev2; d; }
  { rank=sink;   lev3; x; y; z; }

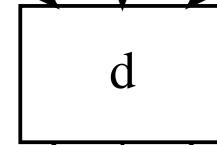
  { a b c } -> d;
  d -> { x y z };
}

```

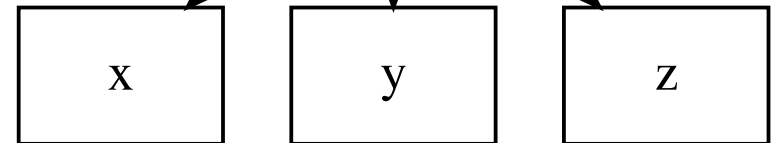
Level 1



Level 2



Level 3

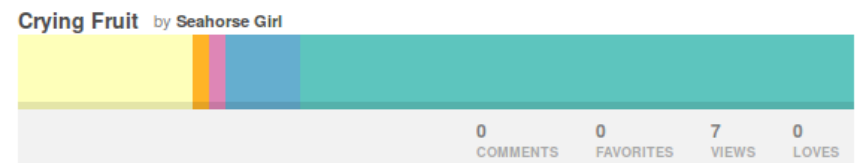
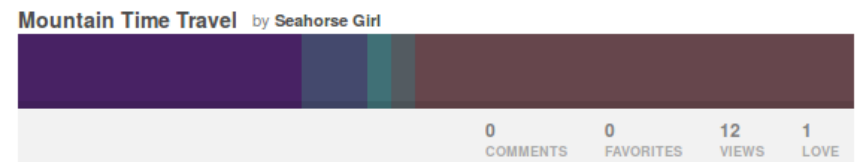
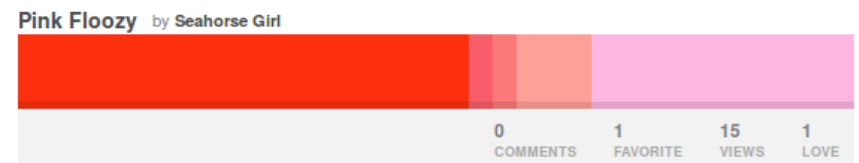
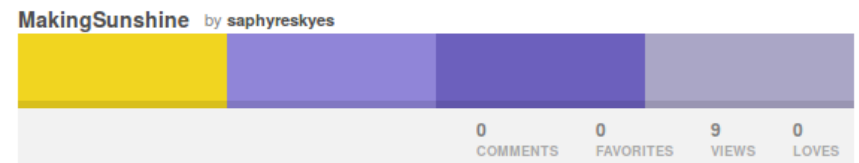
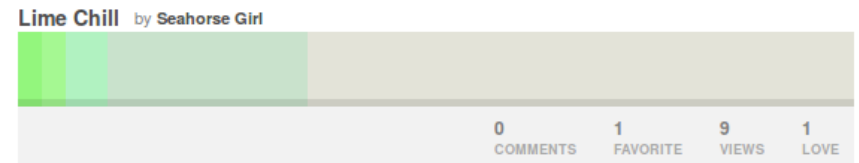


**Protip:  
Reduce  
Color**



# Color Tips

- Avoid using color
- Okay, you can't avoid it, only use a few
- Make color mean something
- Choose a palette



<http://www.colourlovers.com/palettes>

# Recap

- Focus
- Show Movement
- Alignment
- Grow & Iterate
- Reduce Color



