

quitting again
HYPERGRAPHS
represented as hypergraph - data structure?

pick only 1 edge
- check for cycles
→ if yes → ERROR
- if not (acyclic)
- then remove low order nodes until all gone
- reverse order and back that is the quit order!

any line shared
↓
edge

1) label all the areas (holes)
2) label the edges (hyperedges)

x y color
→ find area based on corners?
→ smallest area w/o any other lines?
→ need segments and not just points?
→ can find nothing based on the quilt diagram.
+ polar sections.
→ use labels for the sections?
→ output lines straight?

1) use area labels
2) each line 1 edge
3) create number group
4) test for cycles

id x y value

1	x1	y1	1
1	x2	y2	1
1	x3	y3	1
1	x4	y4	1

→ ① CROP
if $x > x_{max}, x_{max}$
 $x < x_{min}, x_{min}$
 $y > y_{max}, y_{max}$
 $y < y_{min}, y_{min}$

② reduce → only things in the area
between? intersect?
find if two shapes overlap.
* need code to crop to section of any shape
→ need "BORDER" object for each?

intersect border lines w/ all lines
line id xy y4

1	1	x1y1 → x1y2
1	2	x1y2 → x1y3
1	3	x1y3 → x1y4
1	4	x1y4 → x1y1

do each line in new section at a time

quilt ideas

→ make n squares
→ calc areas and sort areas
→ put down biggest first
- add shadow
→ put down rest in order of size
- add shadow

idea
→ add details w/ quilting

11
1364
9400
299
800
6363

→ just split on all verticals
→ add for > 8"
→ do 4 → 10" split horizontal

idea 6 → shadows! appropriate?

overhead

1) make shadow objects
2) keep adding them
3) piece it?

→ create piece designs
→ add shadows after w/ colors.

→ only split sections w/ area ≥ min area

has to be convex

rules for finding piecable block?

dark #9C3B21 #303E58
#BD4327 #415462
#F6AC9C #B8C2BA
#F2D0BF #E4E6D8

white
gray -

IDEA generate a FPP random

borders are a special class of line
flats o edges 1 section

1) add a line, and section to plot
a) fill lines to connect
b) fill an x/y on each line
c) check if new line adds

2) create new sections
(border side of new line)
3) test if cycles in graph
- if yes → remove line
4) min area?? remove if too small

old section becomes 2 sections

A	1	2	3	4
B	1	1	0	0
C	1	1	0	0
D	0	0	1	1
E	0	0	1	1

random shape - random strips
→ color ideas?

3D log cabin

← color outside to make 5 colors

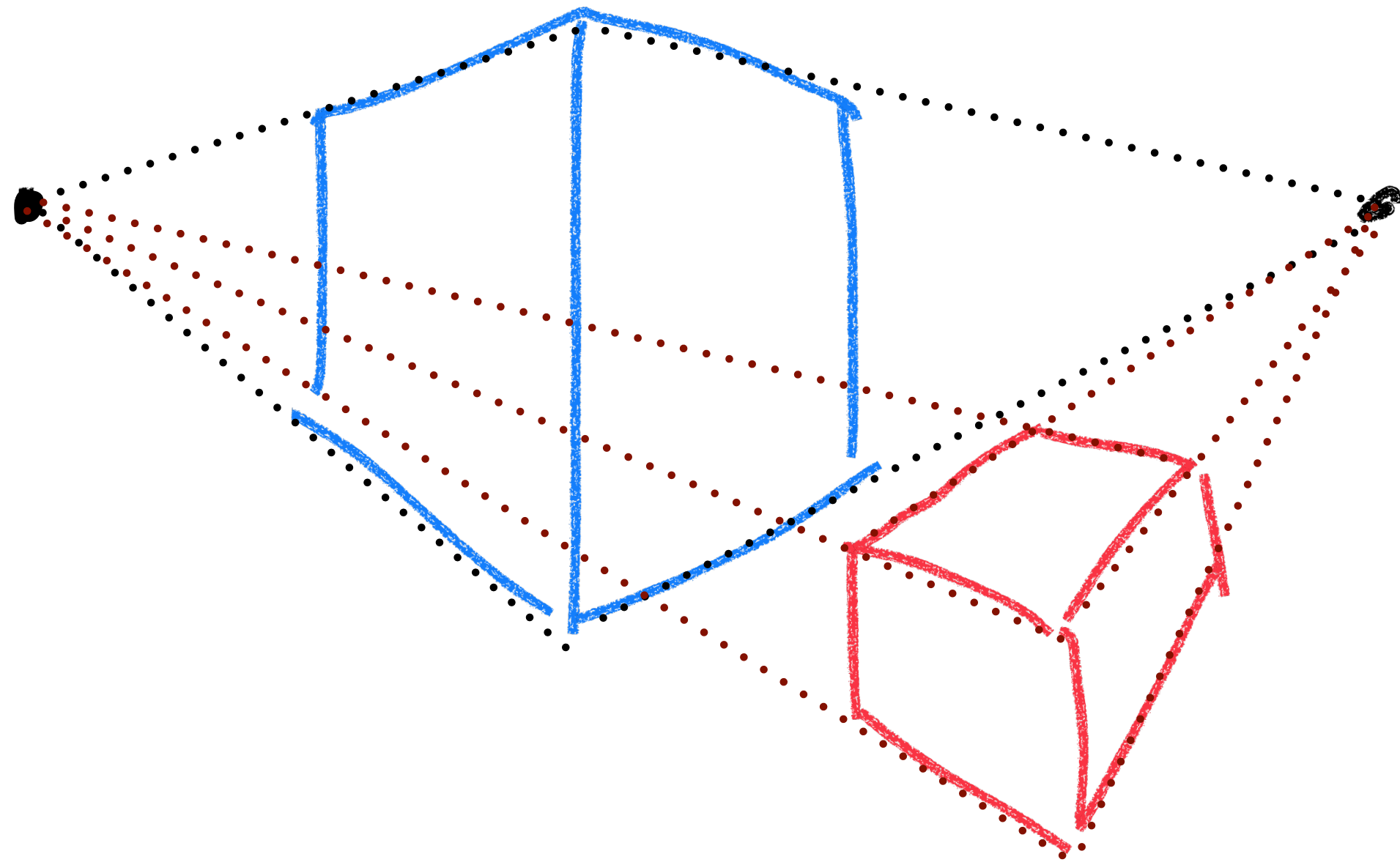
→ What if → all white strips? then do quilting with colors?
→ log cabin manila lisa? abe lincoln?
- use variety of colors
- correct values

map average color of region overlaid
pixels
take avg color in area

variations of colors.

shaded w/ contrast color.

Fuse two domains



```
poly %>%  
  ggplot() +  
  geom_polygon(aes(x = x, y = y,  
                   group = id, fill = value),  
              alpha = 1) +  
  theme_void() +  
  theme(legend.position = "none")
```