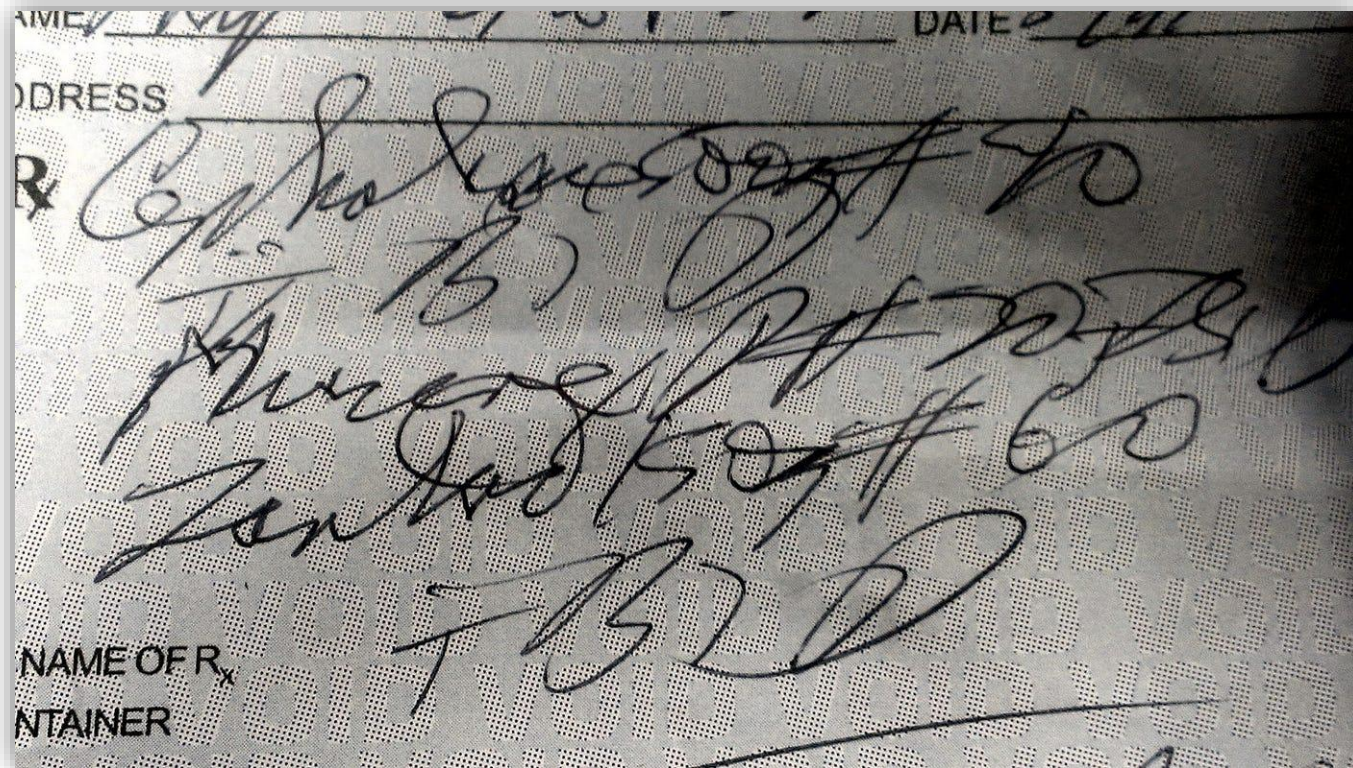


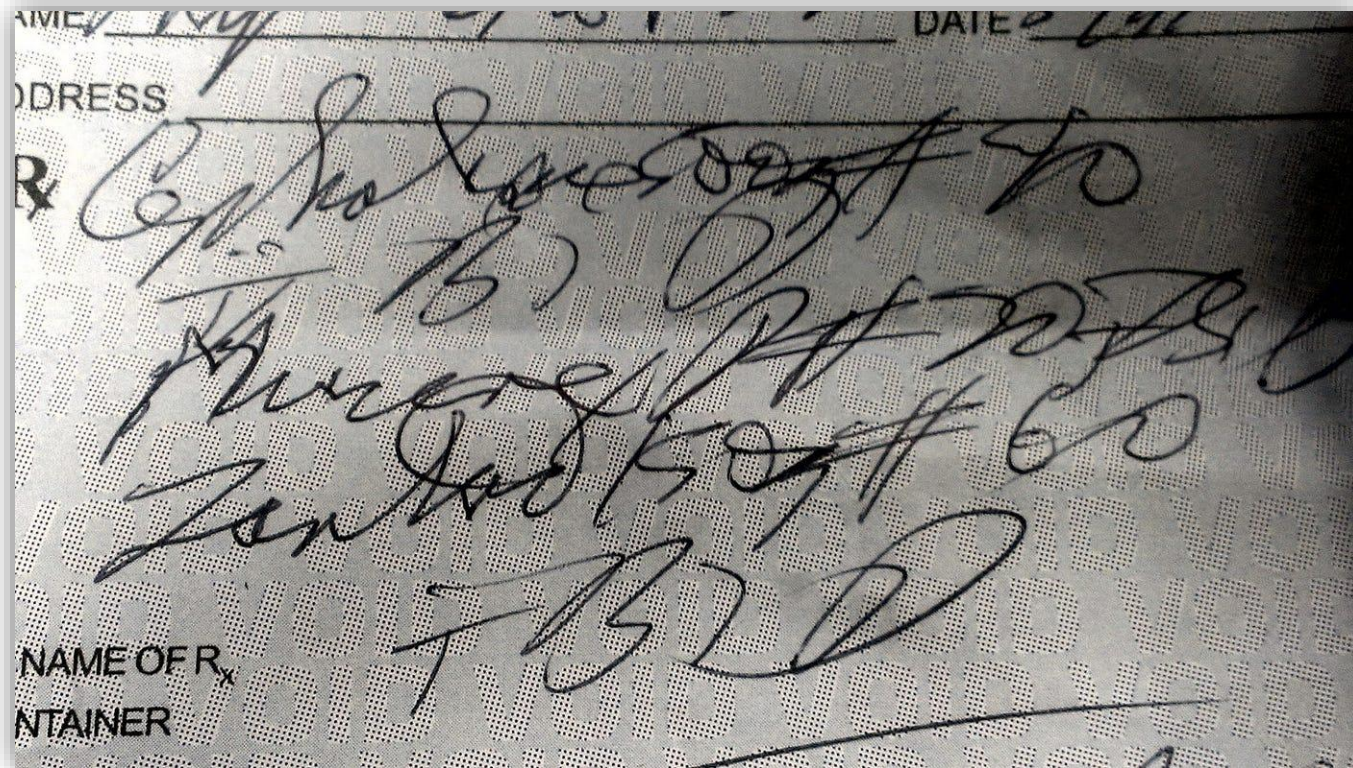
FINDING THRESHOLDS BETWEEN NUMBERS

DANIEL HRUSOVSKY

Let's Play a Game!



What does this sentence say?



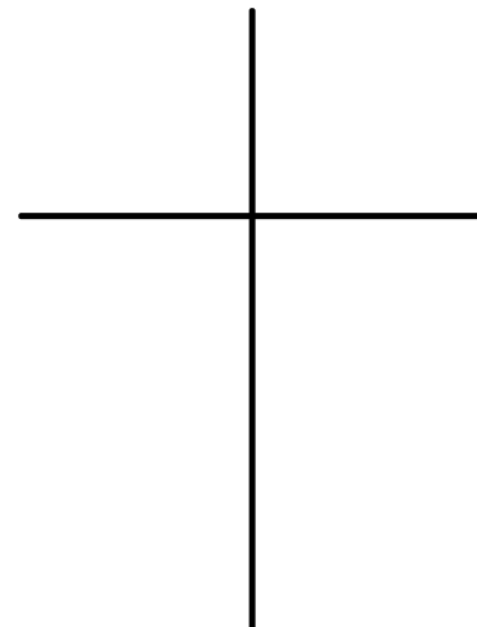
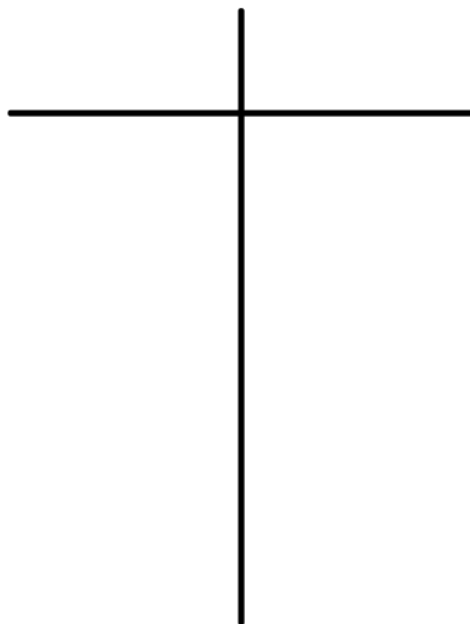
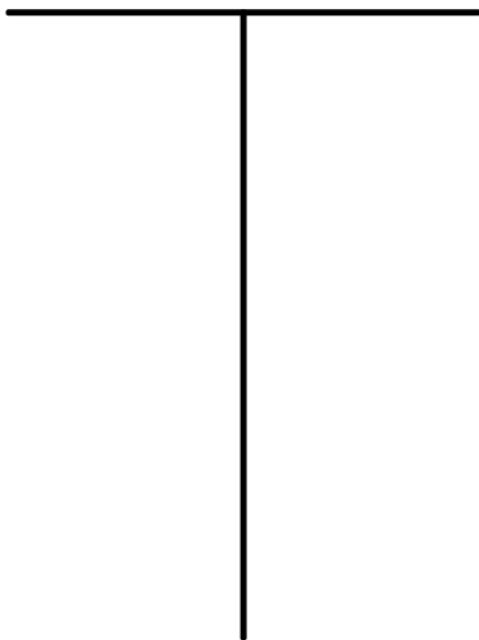
I do not know!

not your own
we're getting understood
maybe get in. In some
case & will be first,
for more ppl to get to
not be that'll be
I don't know a
of the other, learn a
but it's a small

was there wasn't anything especially amazing about that day, but it was
To live life.

A-1
Very nice story, Joe.
Consider giving readers the
hint that his decision is
a permanent one - or just
temporary. You can build
up the details in the final
¶ - what he's making
(w/ metaphors + signs
of freedom ... and
perhaps chaos).

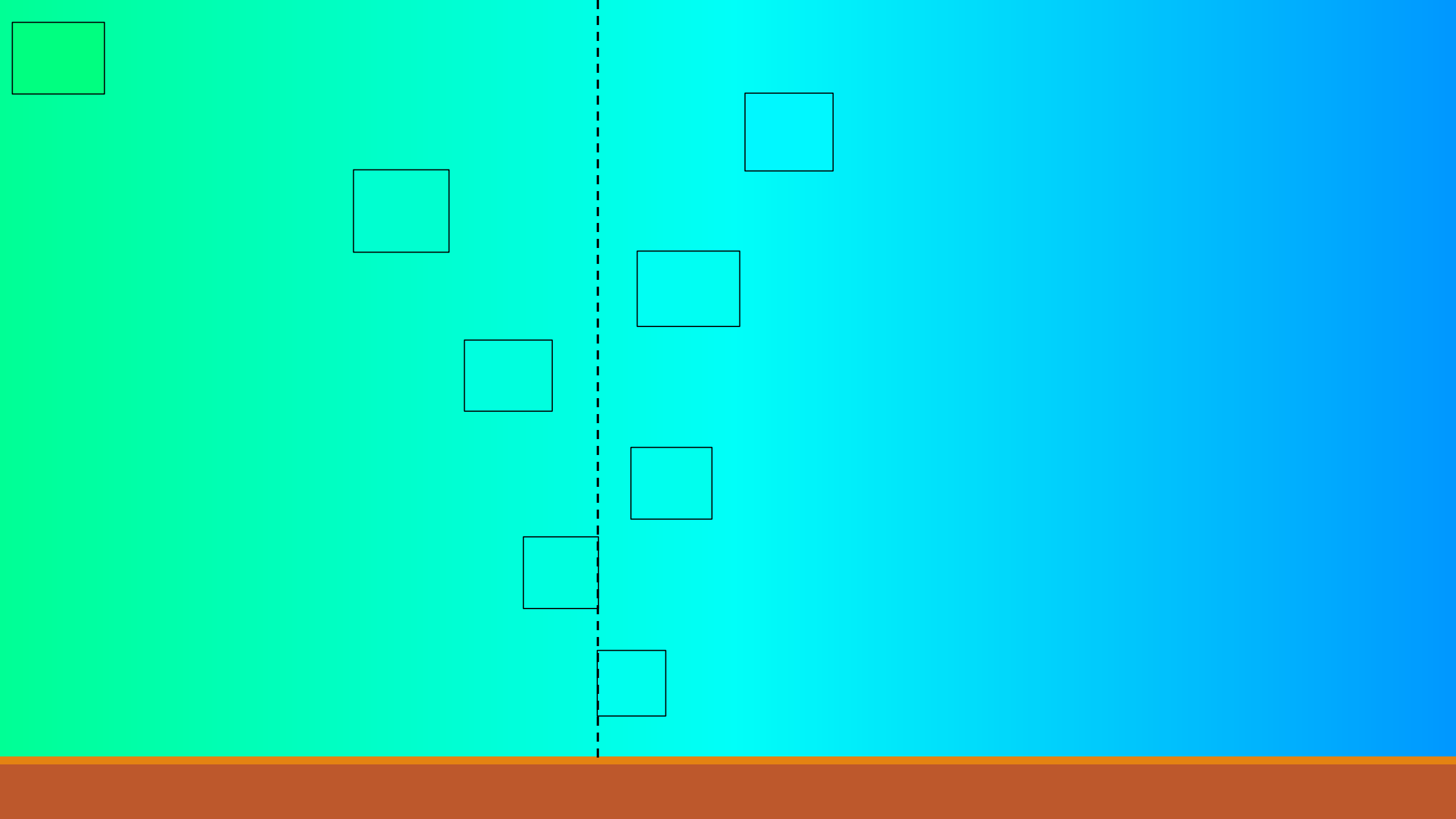
False

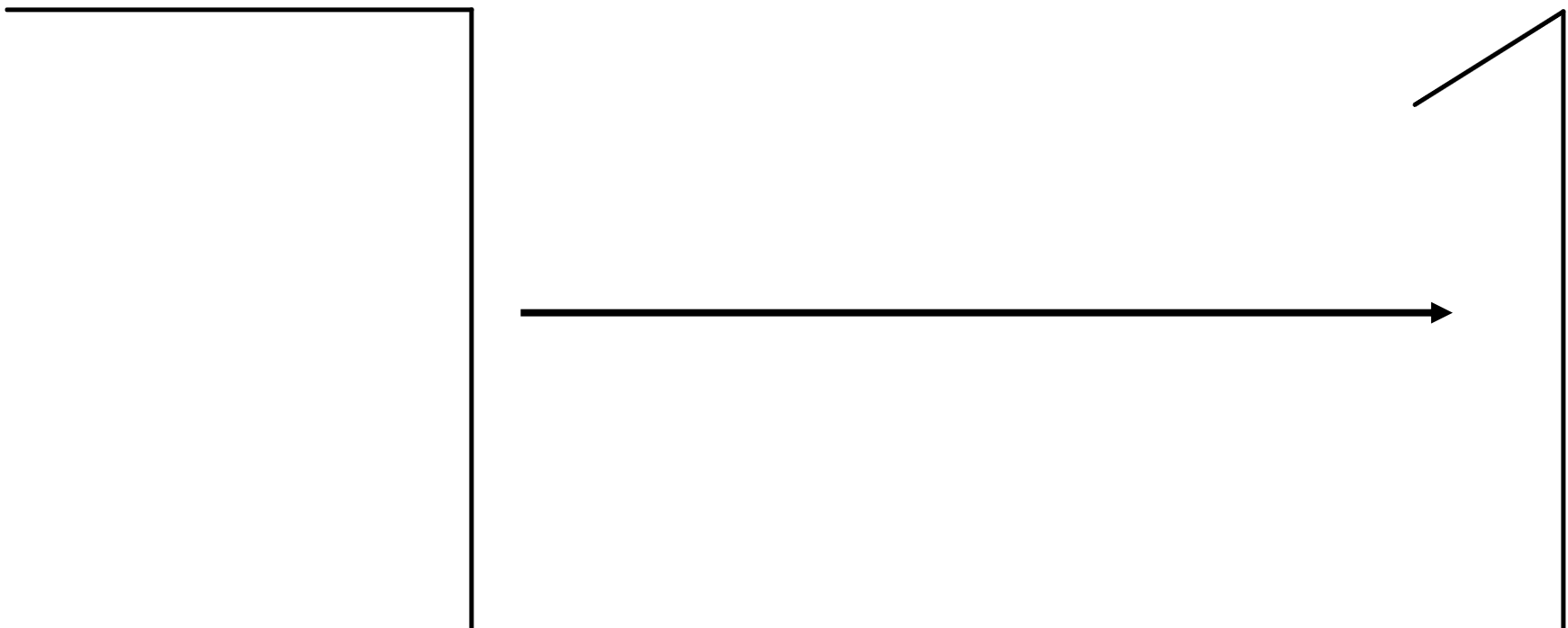


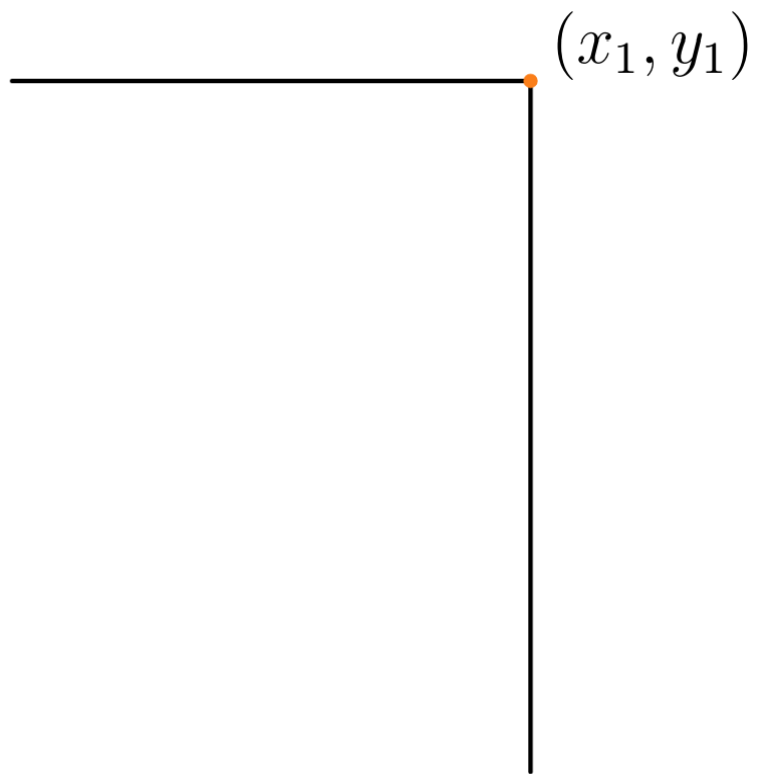
Find the threshold between 7 and 1.

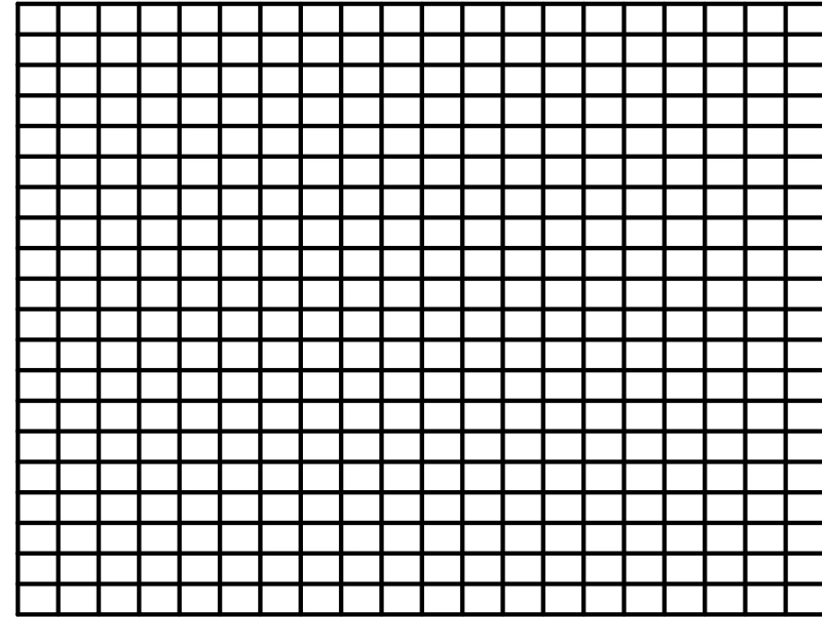
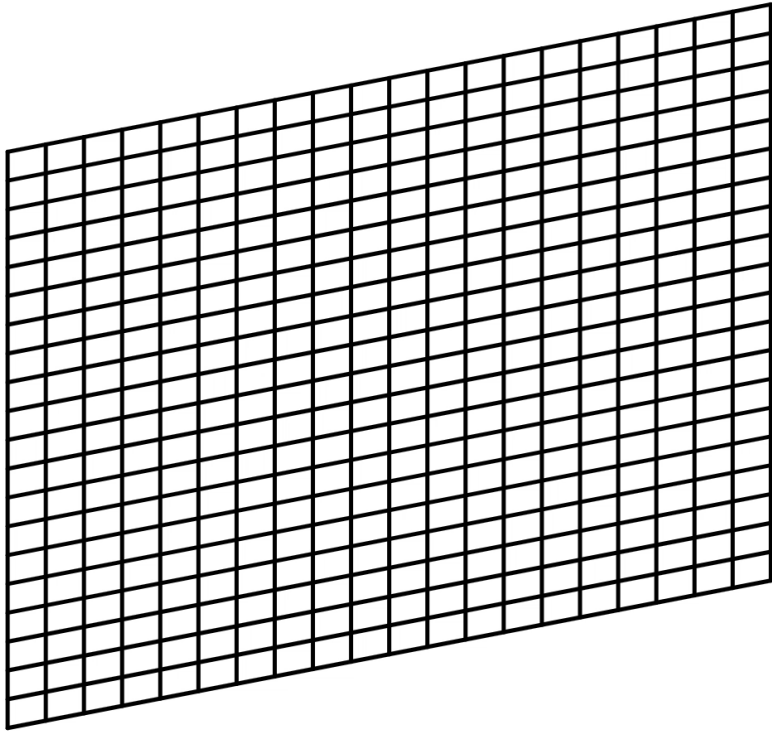
Is *my* blue your blue?

ismy.blue









Shearing Transformation

$$\begin{bmatrix} 1 & 0 \\ g & 1 \end{bmatrix} \cdot \begin{bmatrix} x_1 \\ y_1 \end{bmatrix} = \begin{bmatrix} x_1 \\ gx_1 + y_1 \end{bmatrix}$$



$g = 0$

$$\begin{bmatrix} 1 & 0 \\ 0 & c \end{bmatrix} \cdot \begin{bmatrix} x_1 \\ gx_1 + y_1 \end{bmatrix} = \begin{bmatrix} x \\ y \end{bmatrix}$$

$$x_1 = x$$

$$c \cdot (gx_1 + y_1) = y$$

$$c = \frac{y}{gx_1 + y_1}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & \frac{y}{gx_1+y_1} \end{bmatrix} \begin{bmatrix} 1 & 0 \\ g & 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & \frac{y}{gx_1+y_1} \end{bmatrix} \begin{bmatrix} x \\ gx+y \end{bmatrix} = \begin{bmatrix} \frac{y}{gx_1+y_1} x \\ (gx+y) \end{bmatrix}$$

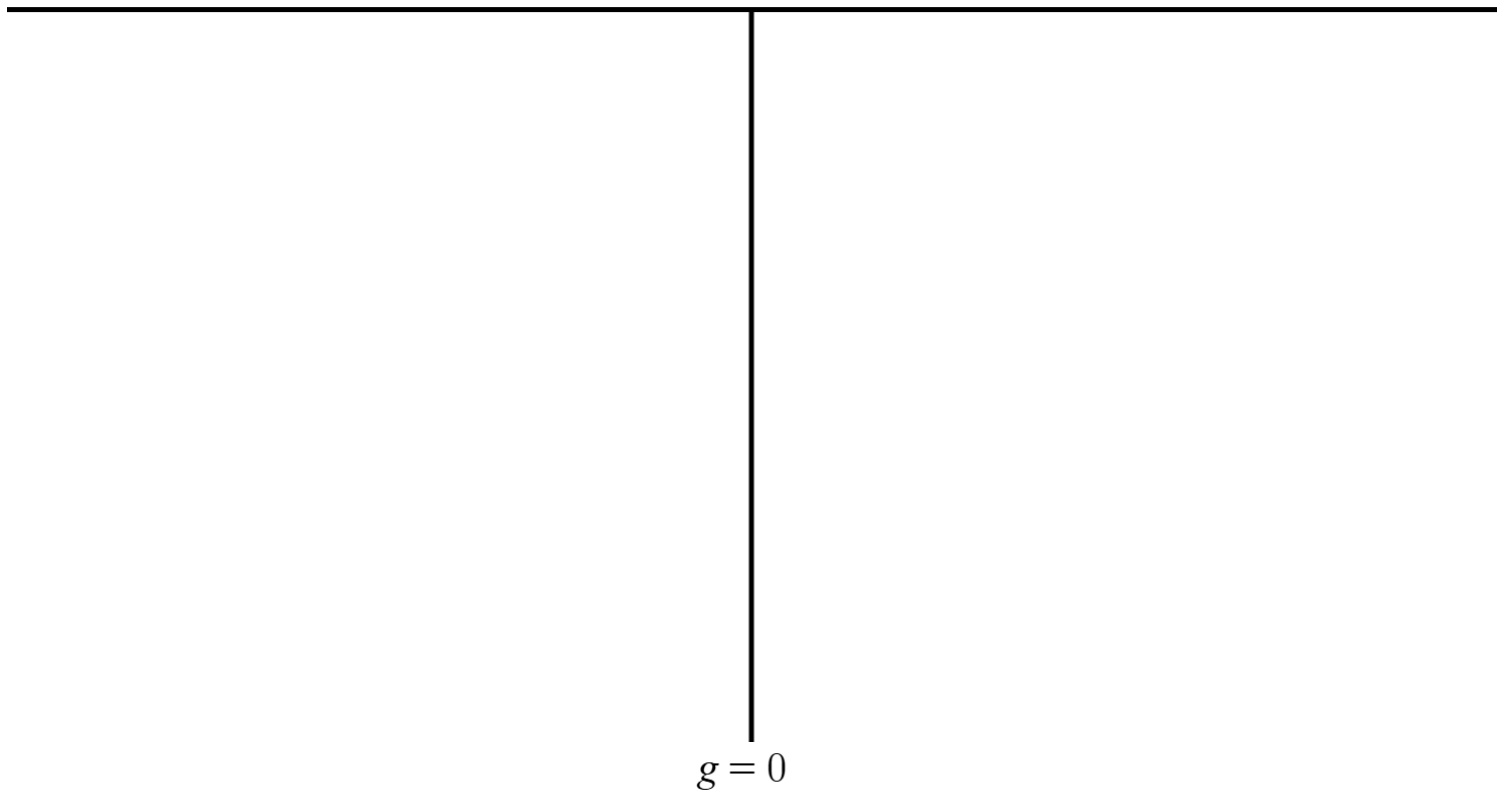


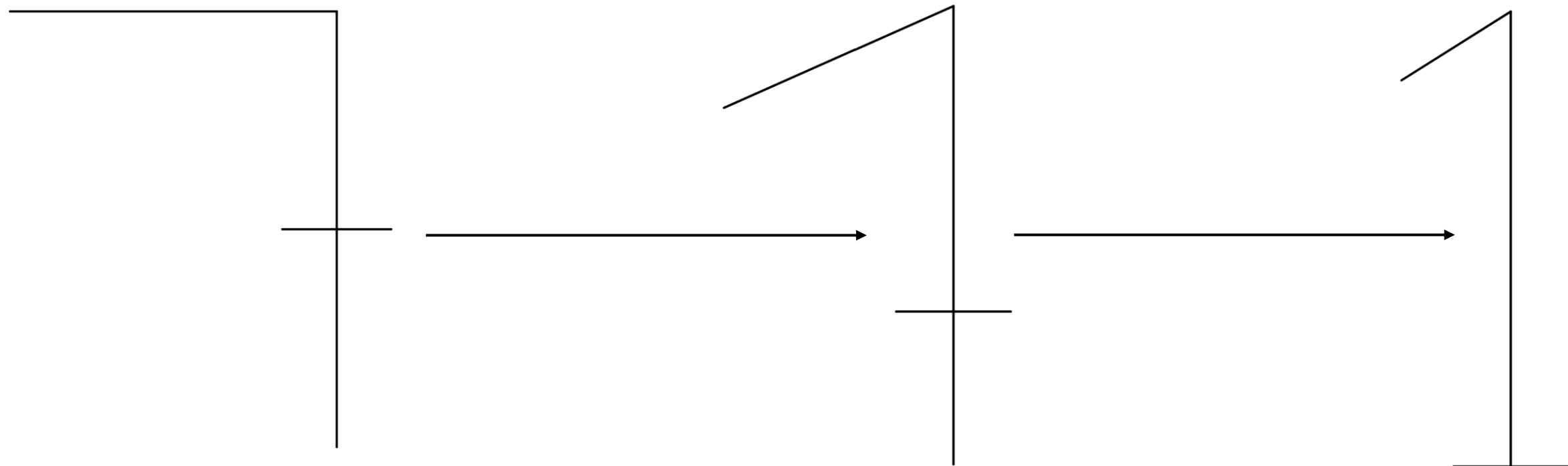
$g = 0$

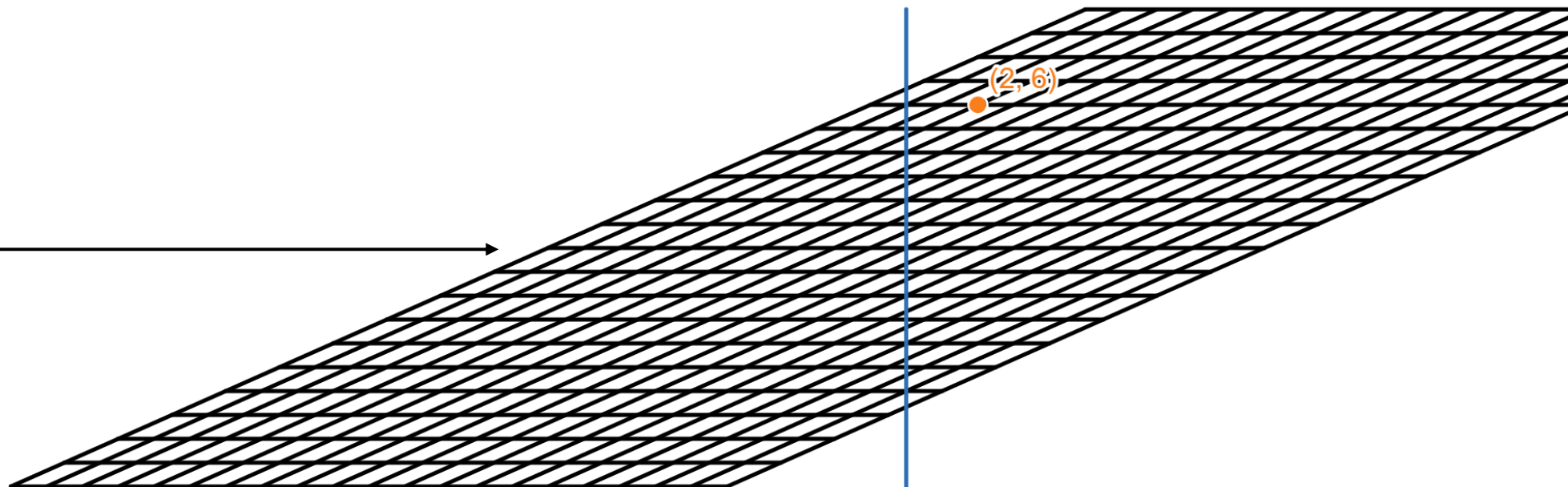
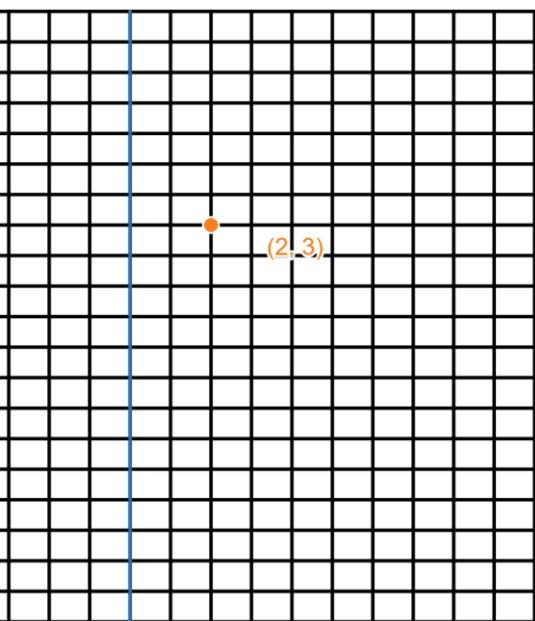
$$(y - y_1) = \frac{gy_1}{gx_1 + y_1}(x - x_1)$$

$$\frac{gx_1 + y_1}{y_1}(y - y_1) = g(x - x_1)$$

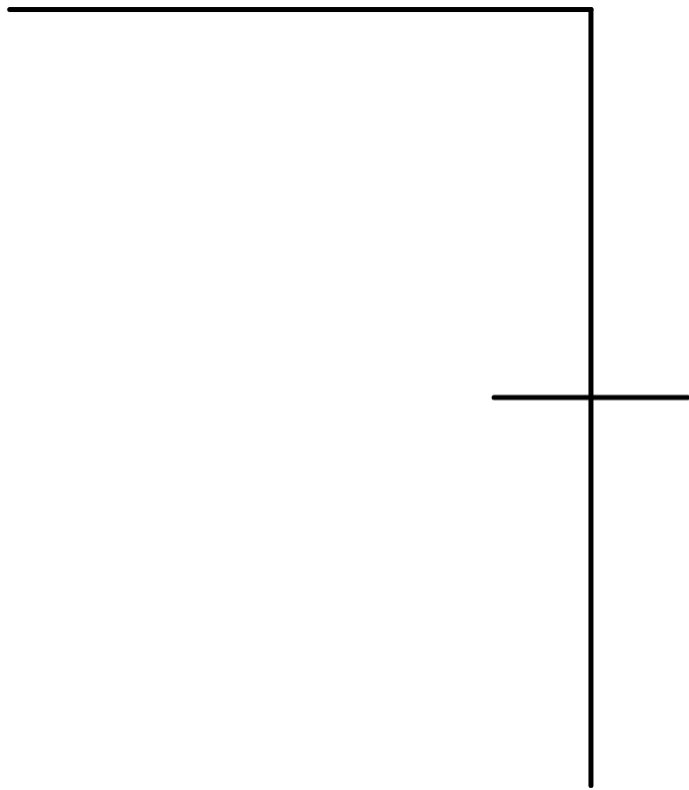
$$\left(\frac{gx_1}{y_1} + 1\right)(y - y_1) = g(x - x_1)$$







$$\frac{4}{6}g + y = x_2 \{x_1 - \frac{1}{2} \leq x \leq x_1 + \frac{1}{2}\}$$



$$g = 0$$

How do we present these figures to individuals?

Is *my* blue *your* blue?

This is green

Reset

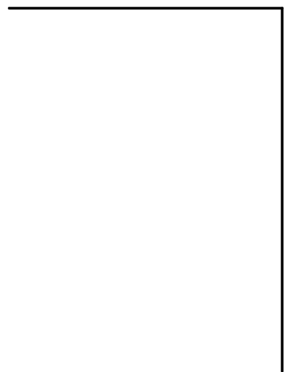
This is blue



Please choose whether this is a 1 or a 7.

☐ 1

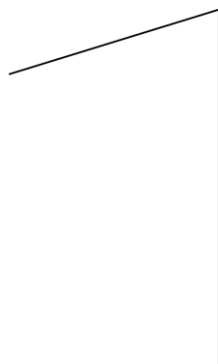
☐ 7



$$g = 0$$



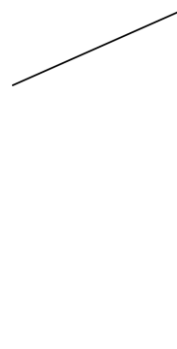
$$g = \frac{1}{4}$$



$$g = \frac{1}{2}$$



$$g = \frac{3}{4}$$



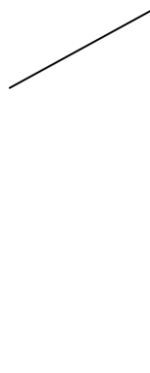
$$g = 1$$



$$g = \frac{5}{4}$$



$$g = \frac{3}{2}$$



$$g = \frac{7}{4}$$



$$g = 2$$



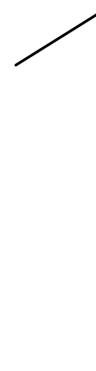
$$g = \frac{9}{4}$$



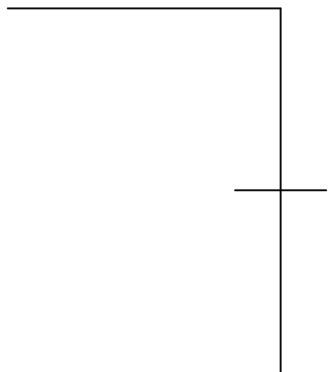
$$g = \frac{5}{2}$$



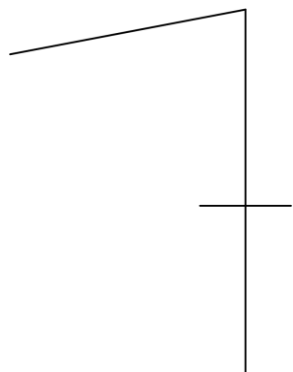
$$g = \frac{11}{4}$$



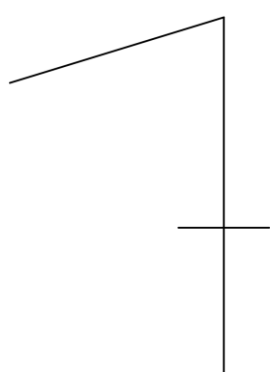
$$g = 3$$



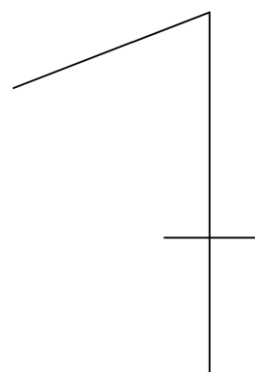
$$g = 0$$



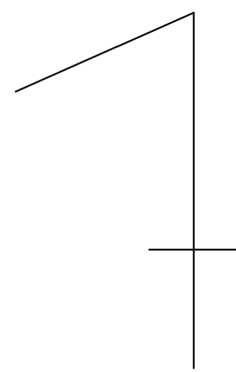
$$g = \frac{1}{4}$$



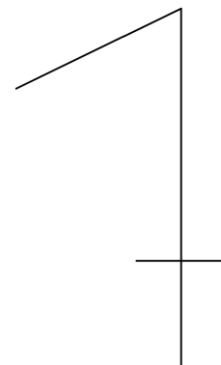
$$g = \frac{1}{2}$$



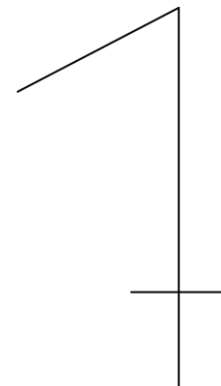
$$g = \frac{3}{4}$$



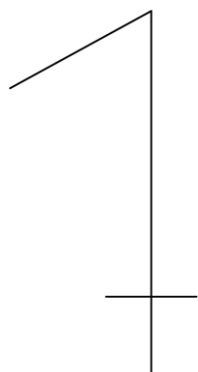
$$g = 1$$



$$g = \frac{5}{4}$$



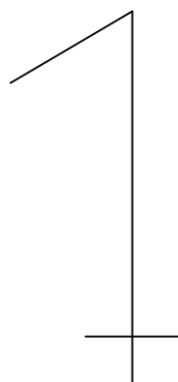
$$g = \frac{3}{2}$$



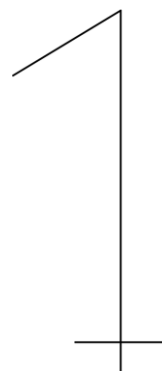
$$g = \frac{7}{4}$$



$$g = 2$$



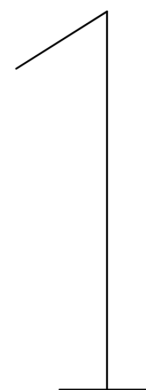
$$g = \frac{9}{4}$$



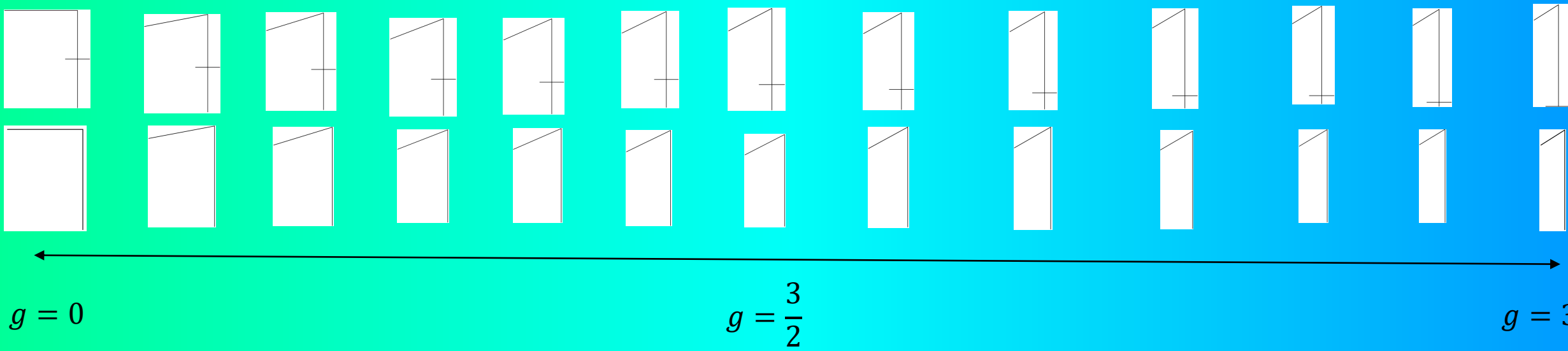
$$g = \frac{5}{2}$$

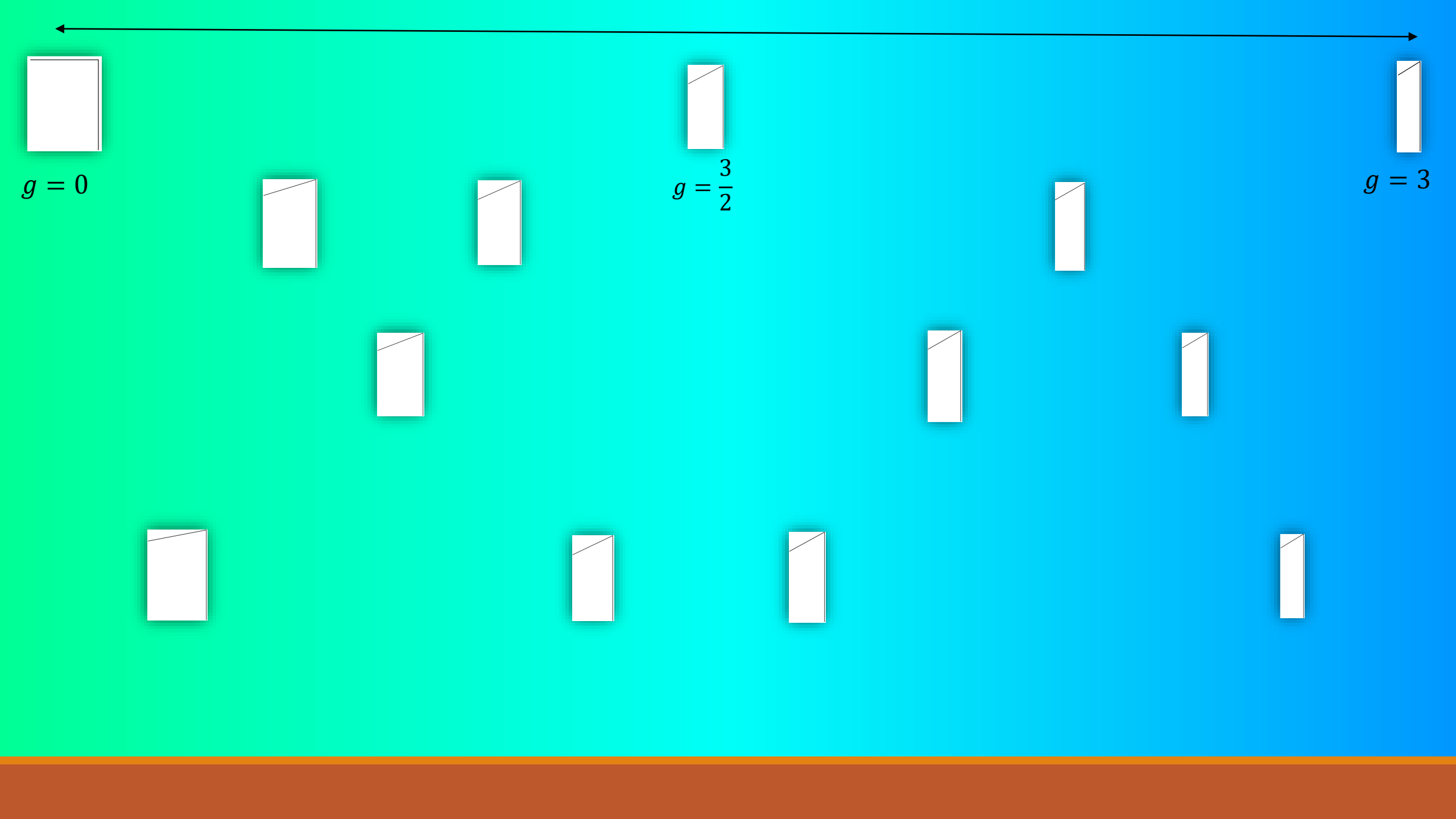


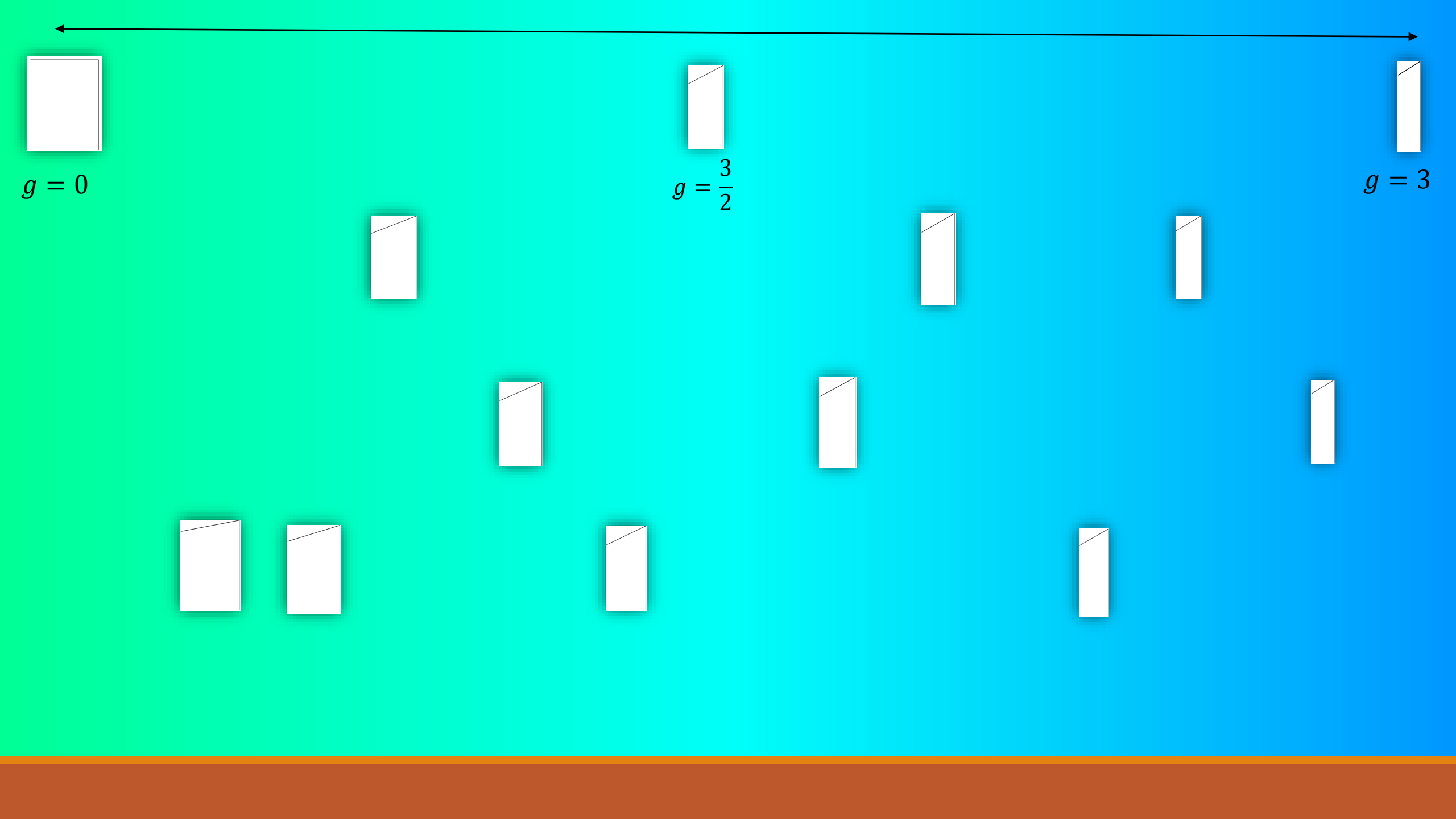
$$g = \frac{11}{4}$$



$$g = 3$$



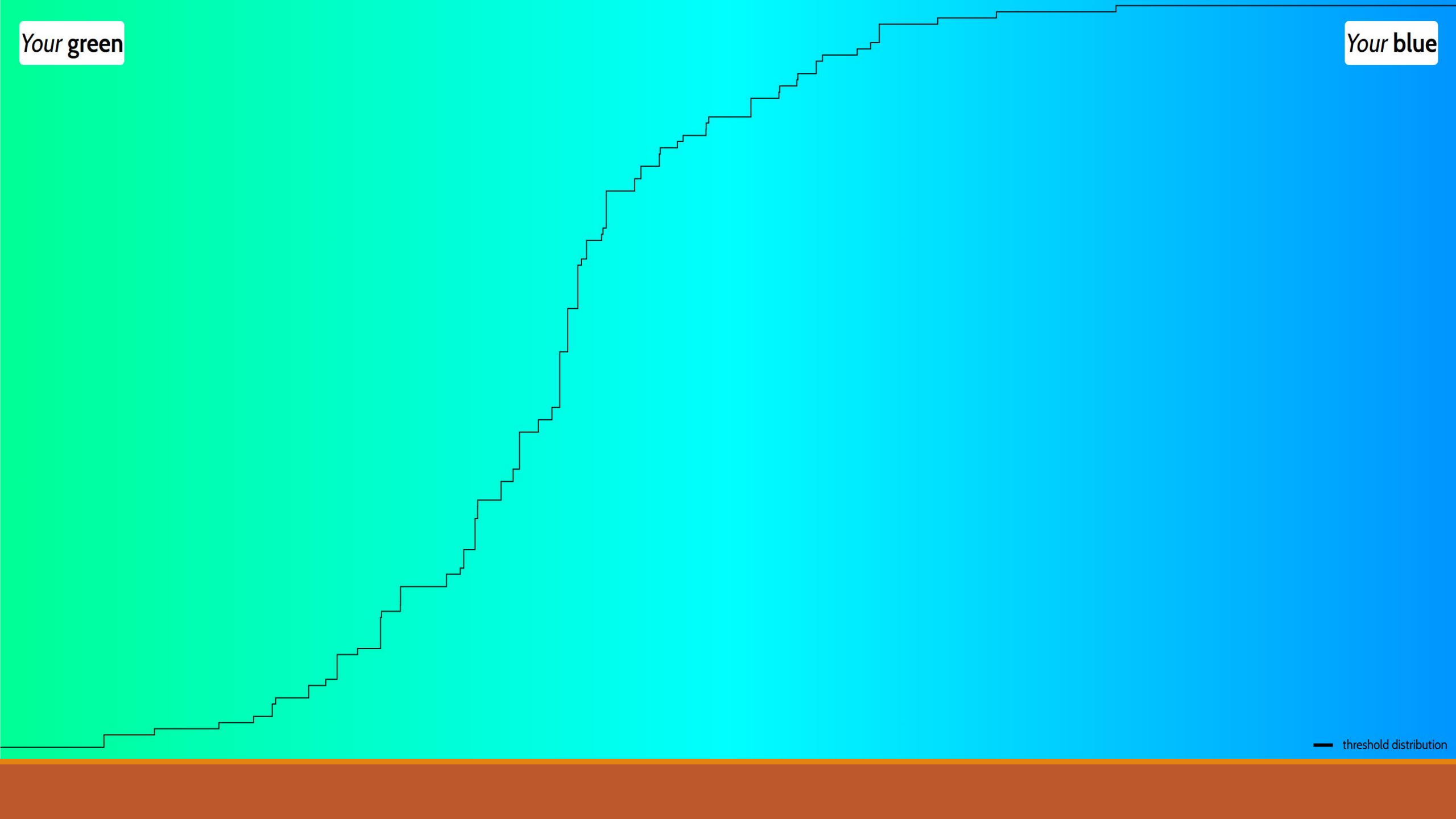




How do we analyze the survey?

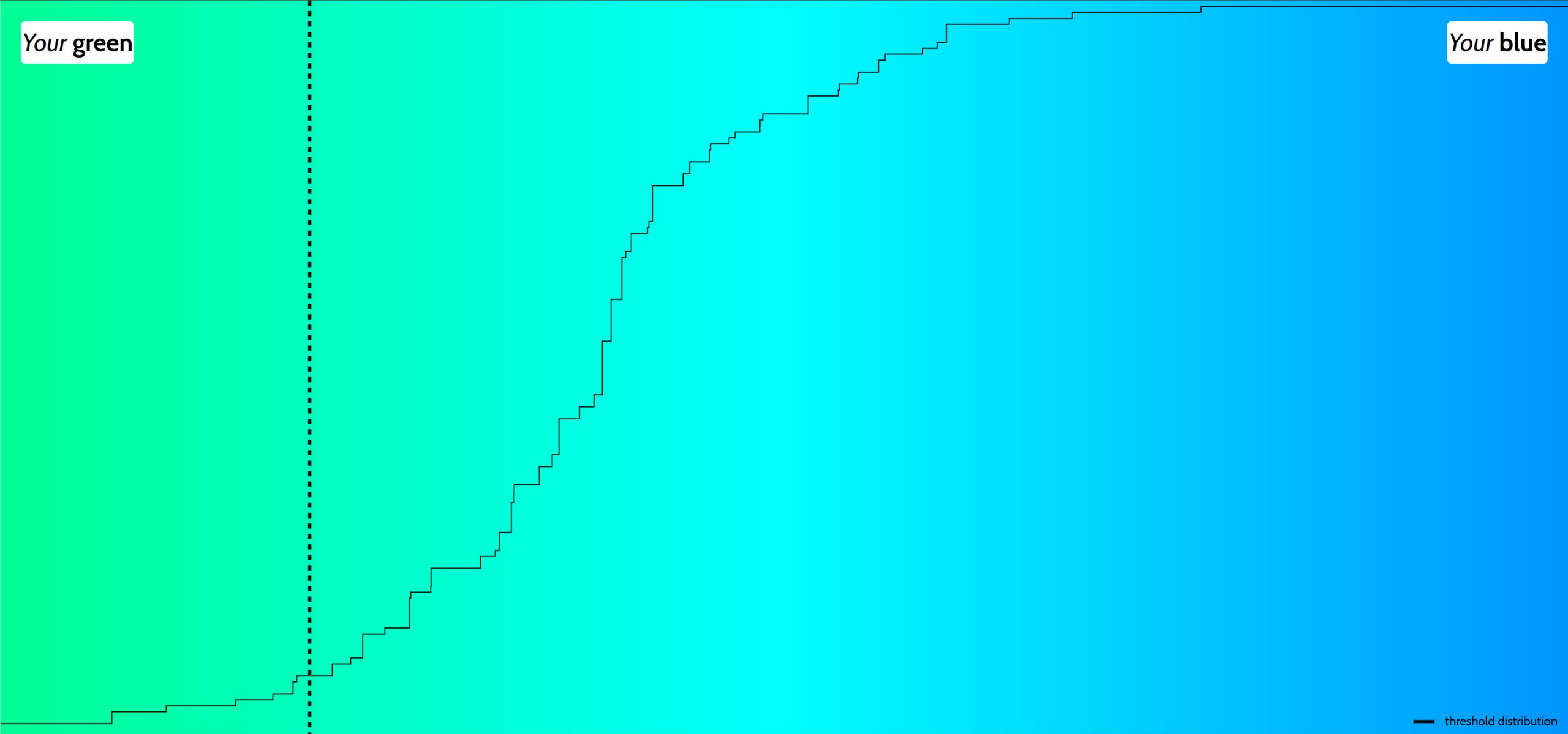
Your green

Your blue




Your green

Your blue



— threshold distribution

Your boundary is at hue 165, greener than 92% of the population. For you, turquoise  is blue.

Find the threshold by looking at
percentage of 7's.

