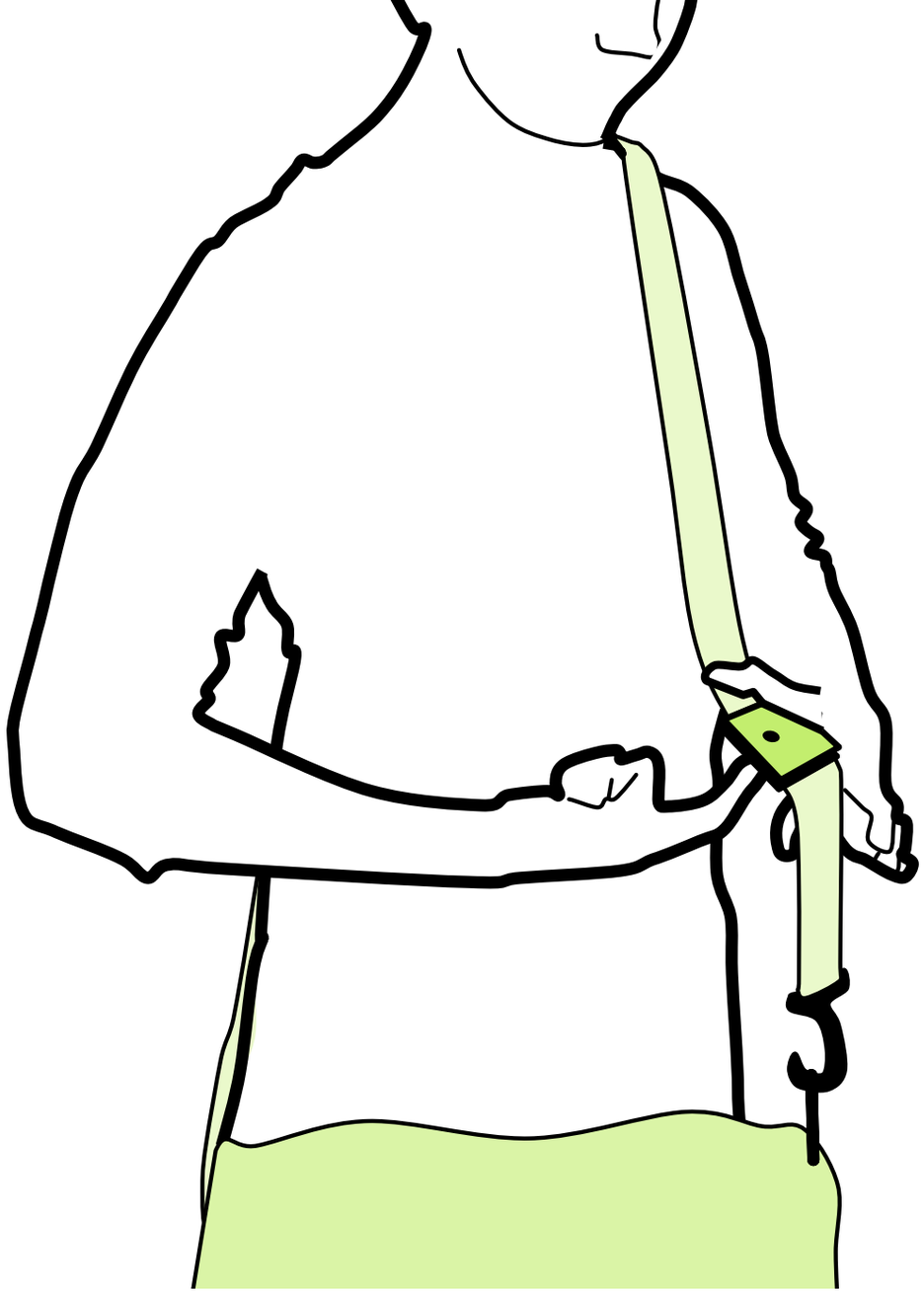
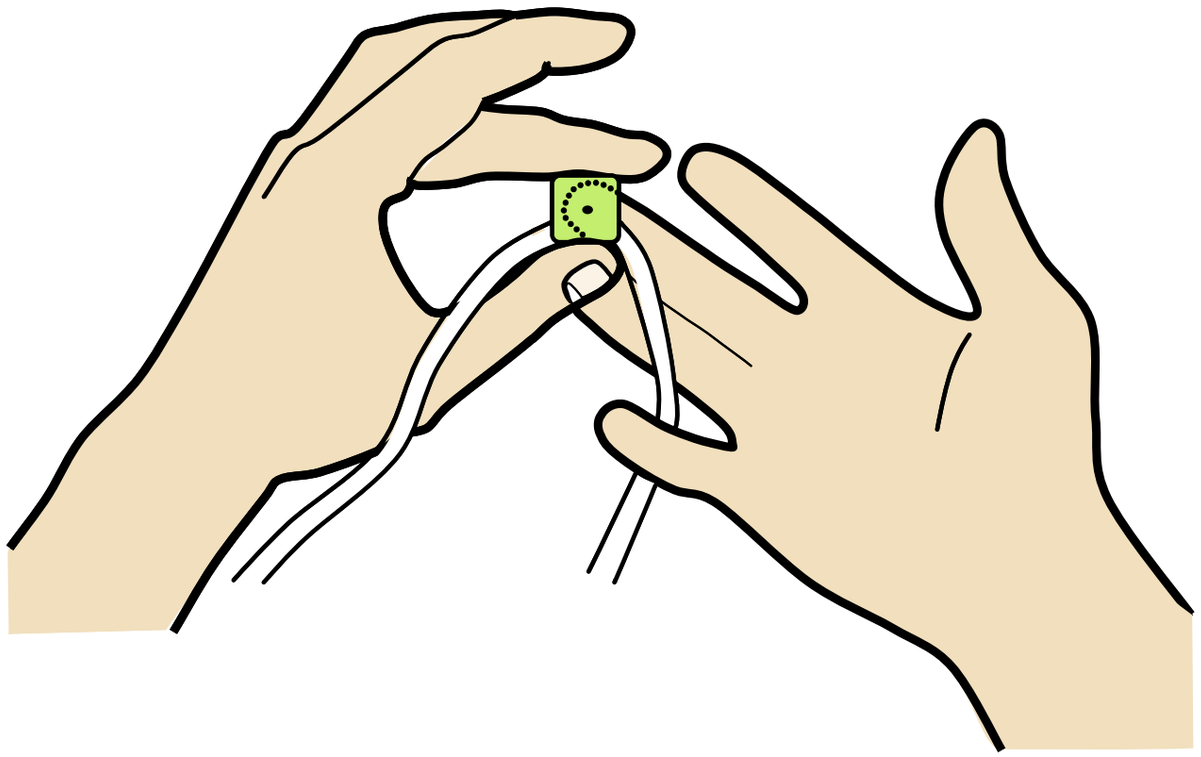




Presentation Graphics

6.S063 Engineering Interaction Technologies

Prof. Stefanie Mueller | HCI Engineering Group

but I cannot draw….

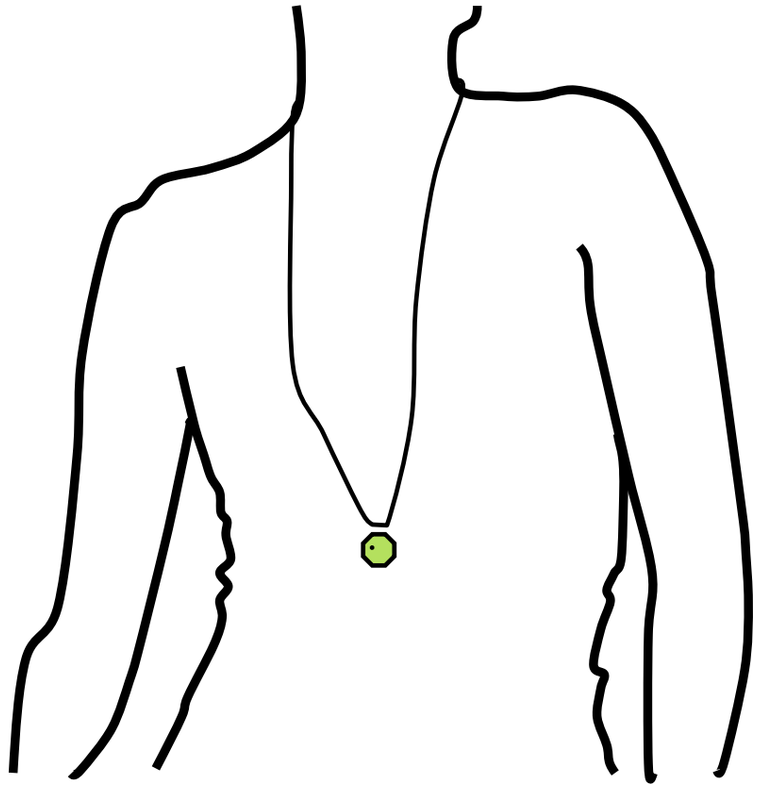
me neither…

rotoscope::

copy from image by drawing over it

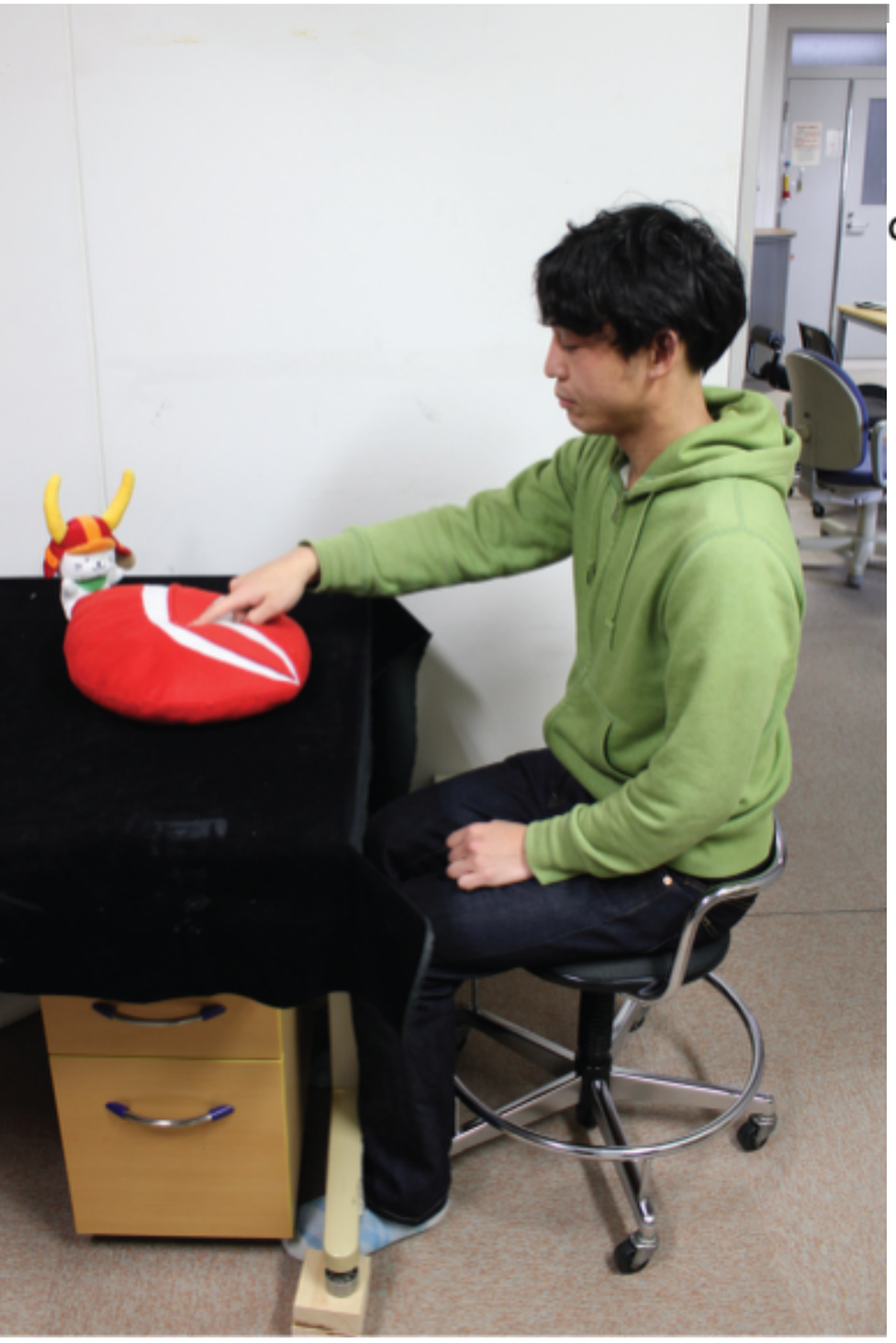
take photo

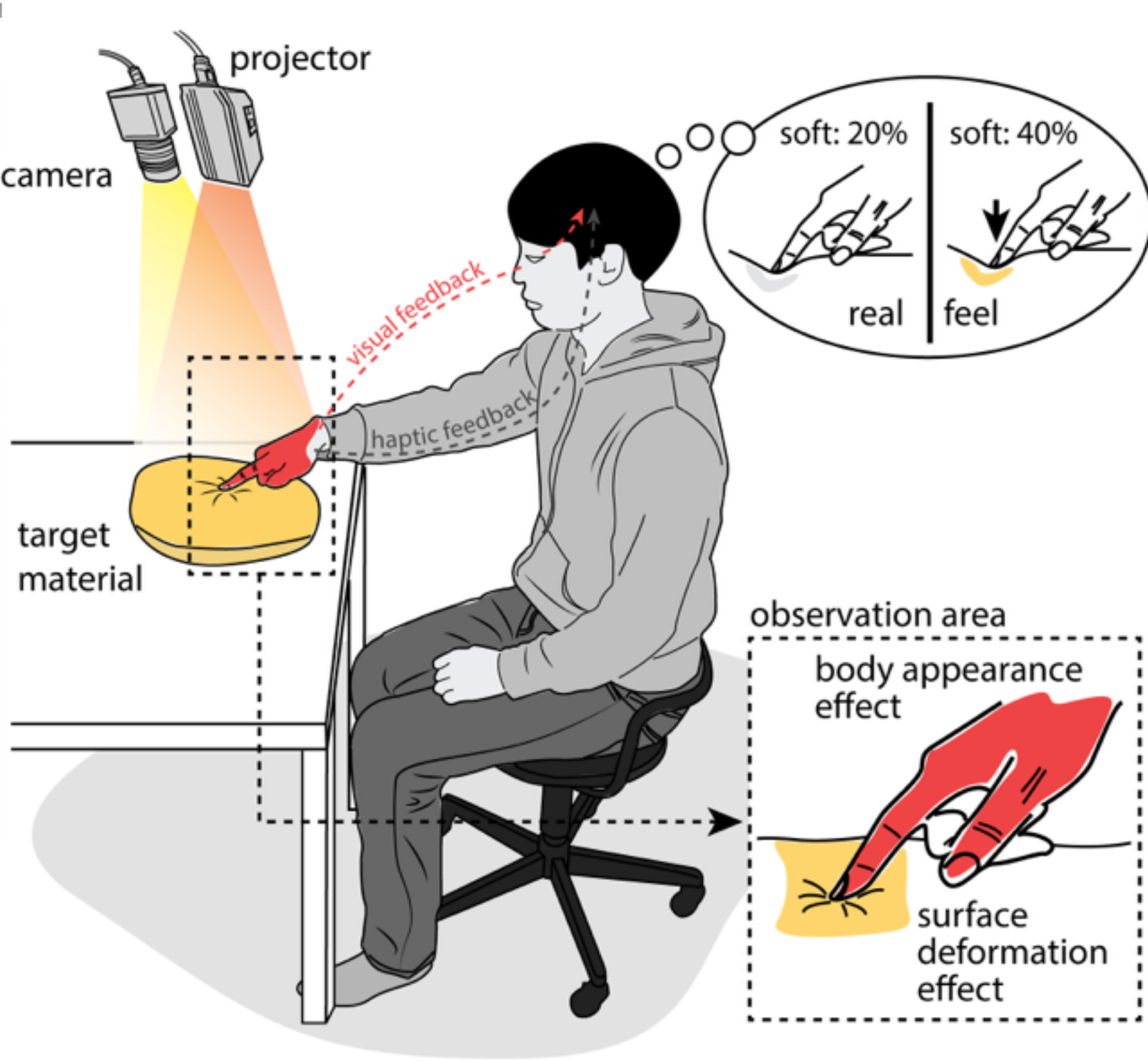
trace lines



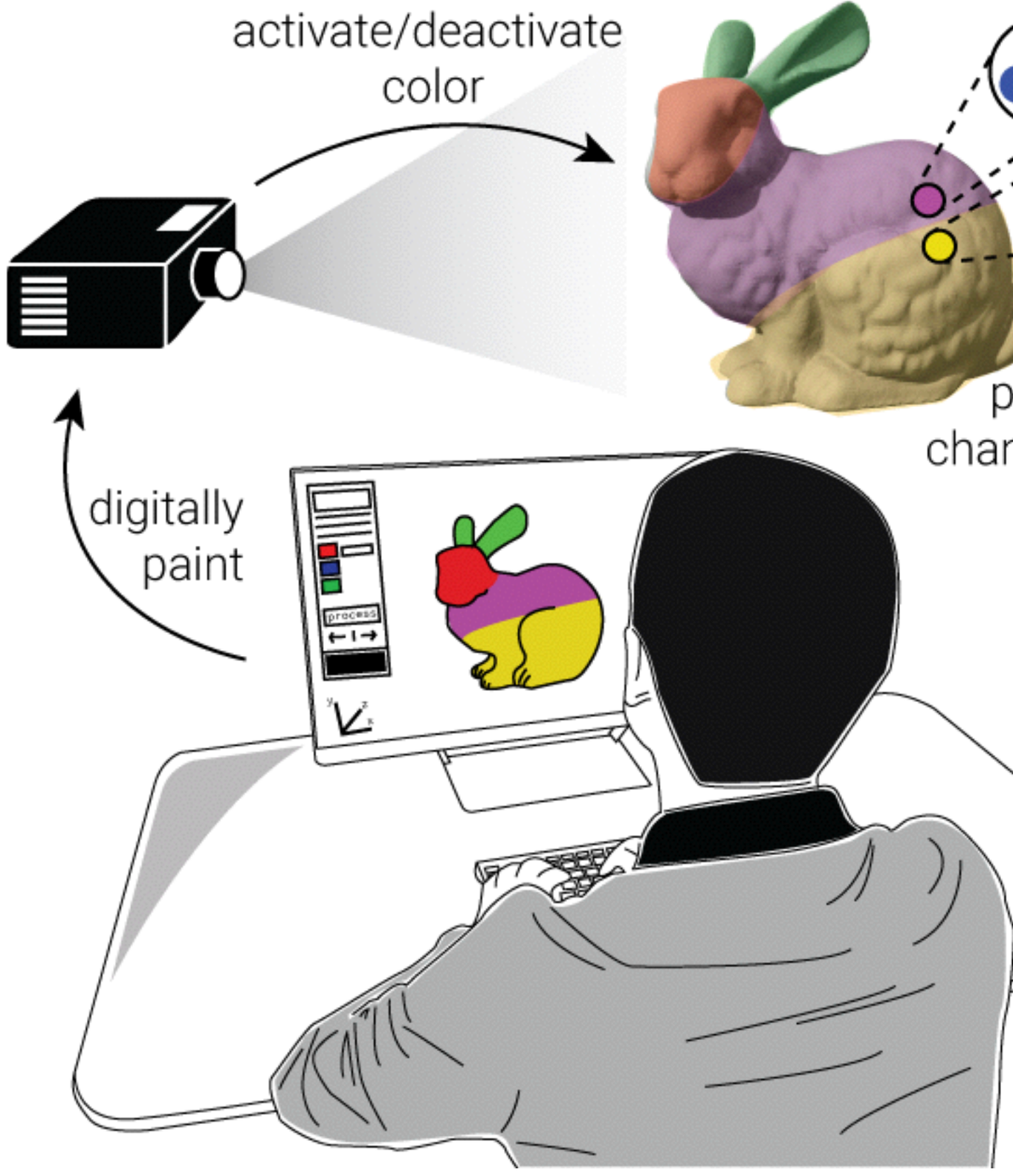
remove photo

[Patrick Baudisch]





[Parinya Punpongsanon]

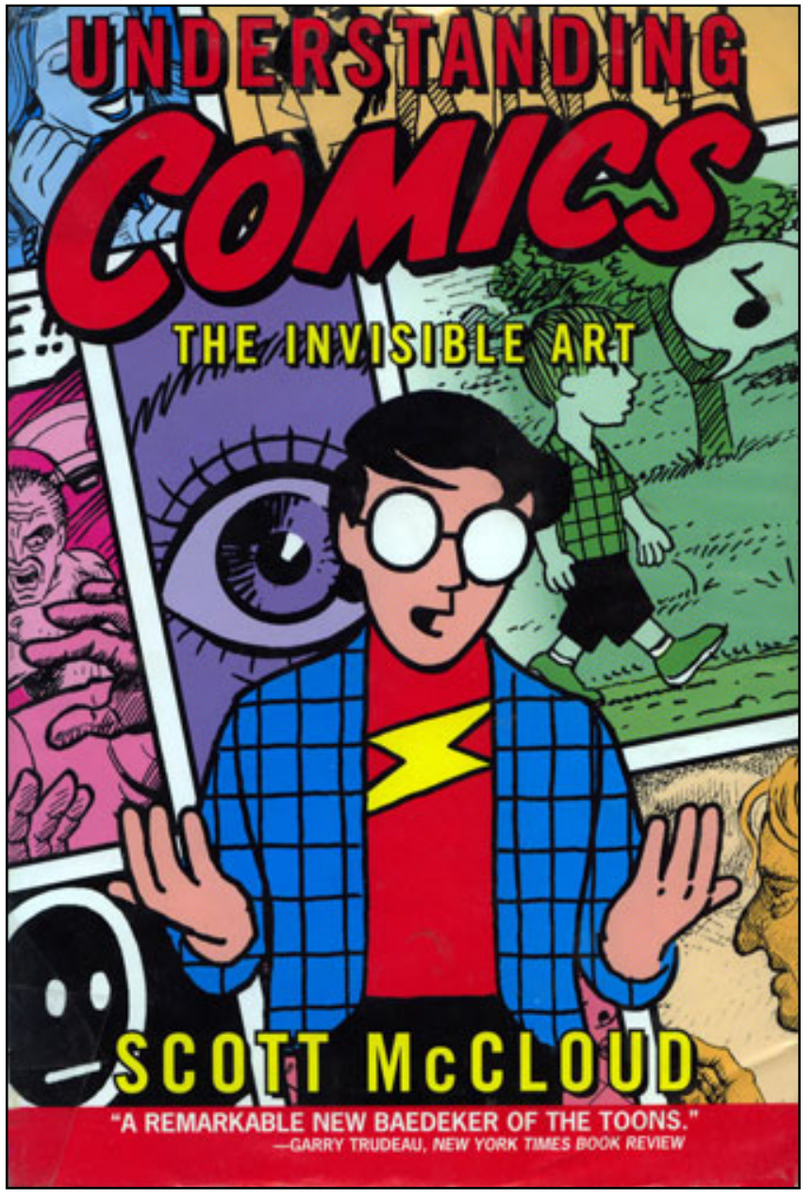


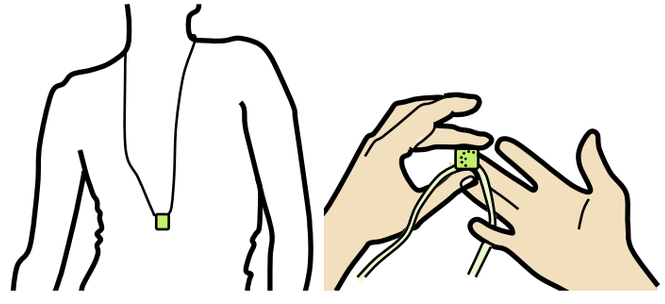
[Parinya Punpongsanon]

goal for today:

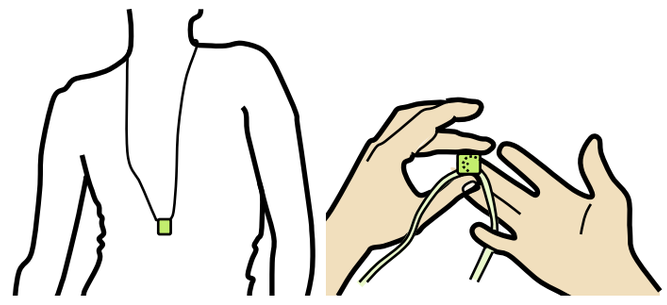
- take one of your idea scribbles
- make this one idea look really good for next weeks presentation

why use rotoscopes and not photos?

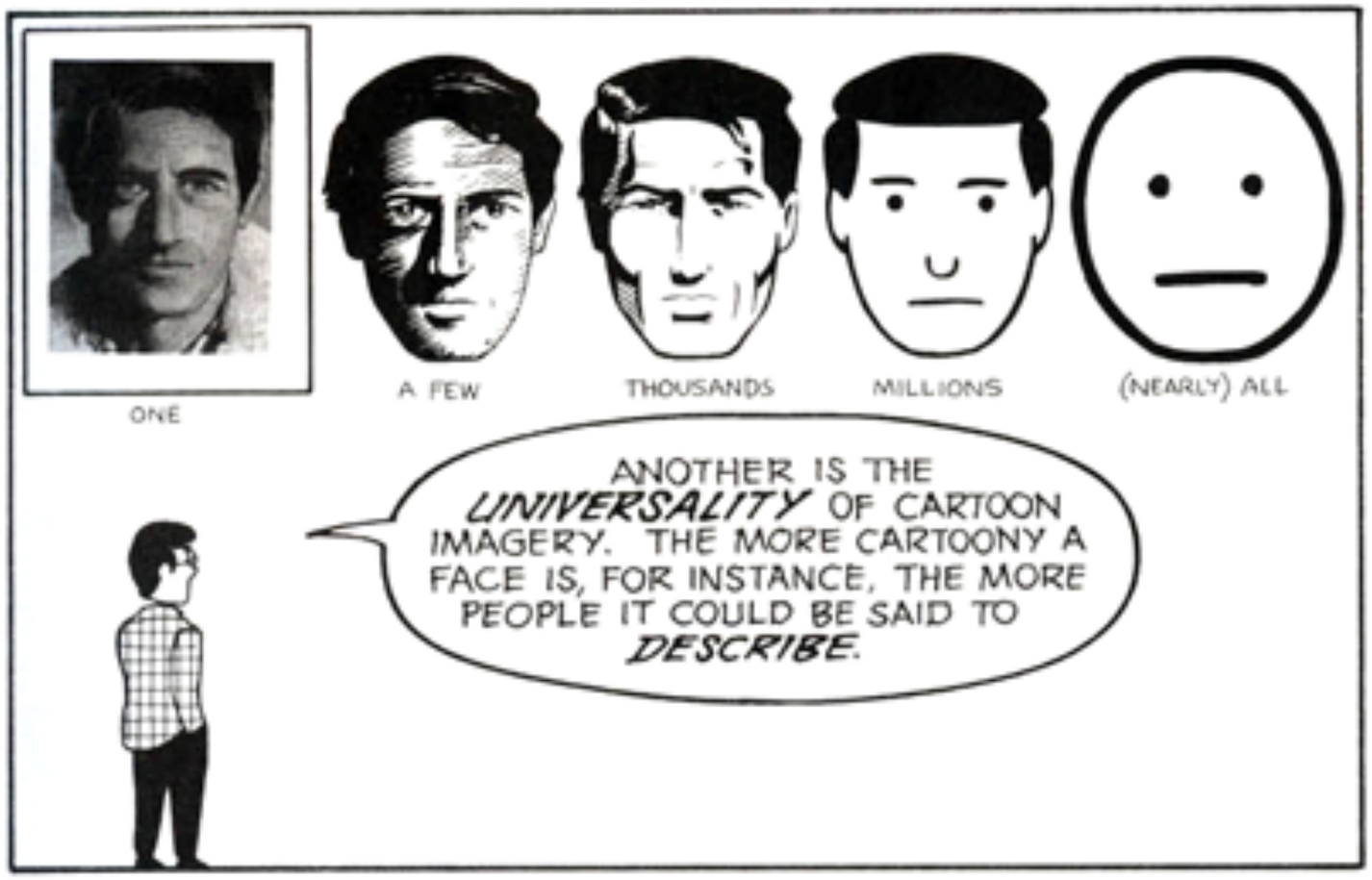


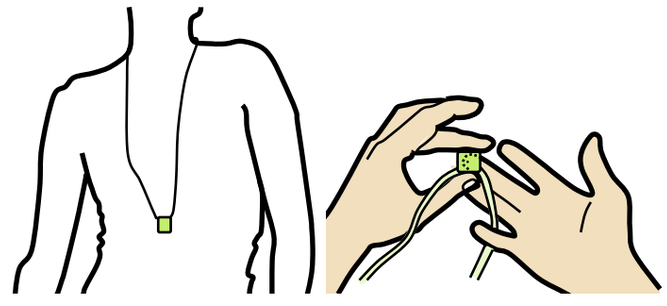


allows to focus on
the essential things



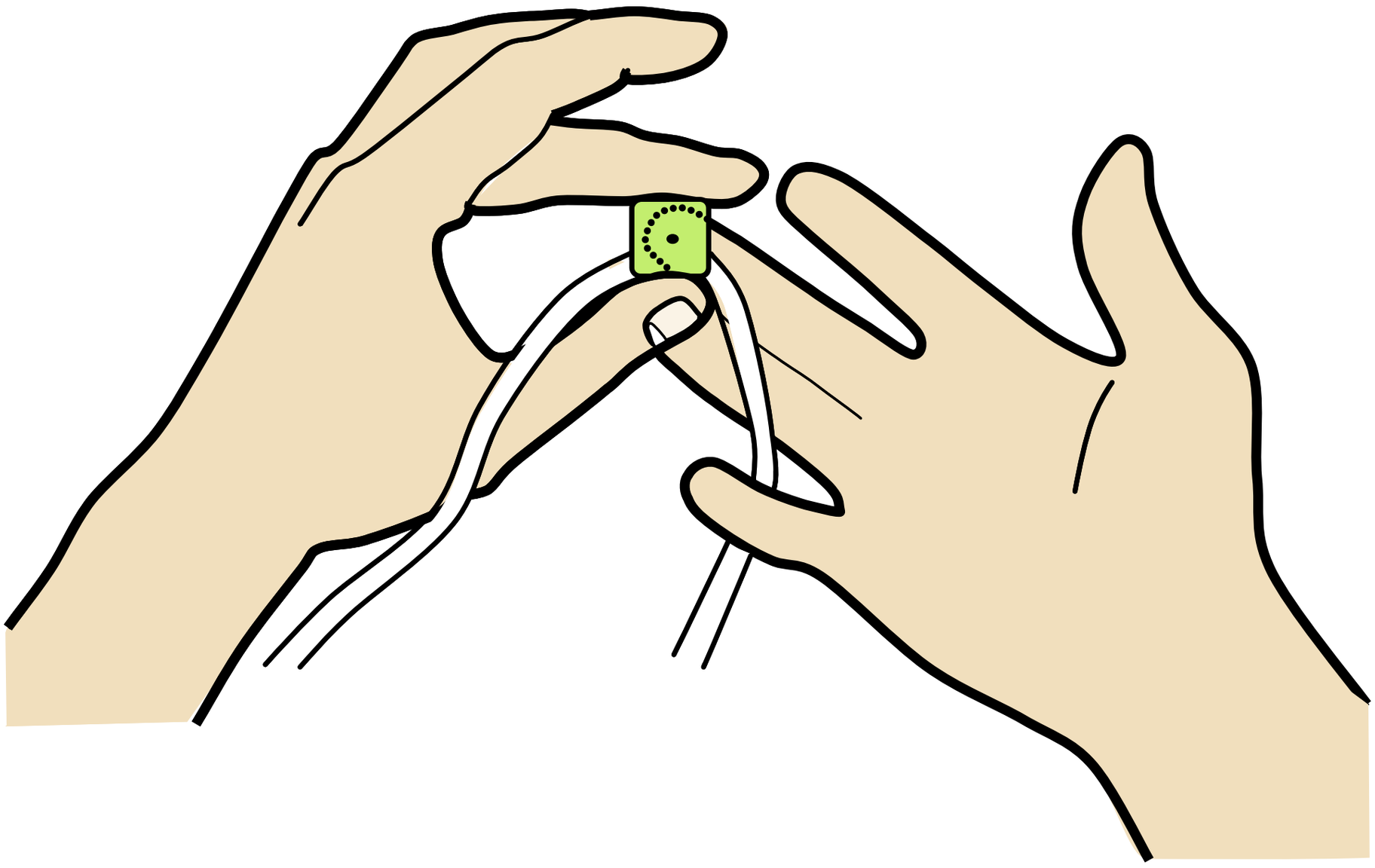
rotoscoping is very clear
can be made very small





best to communicate high-level concepts

useful tricks

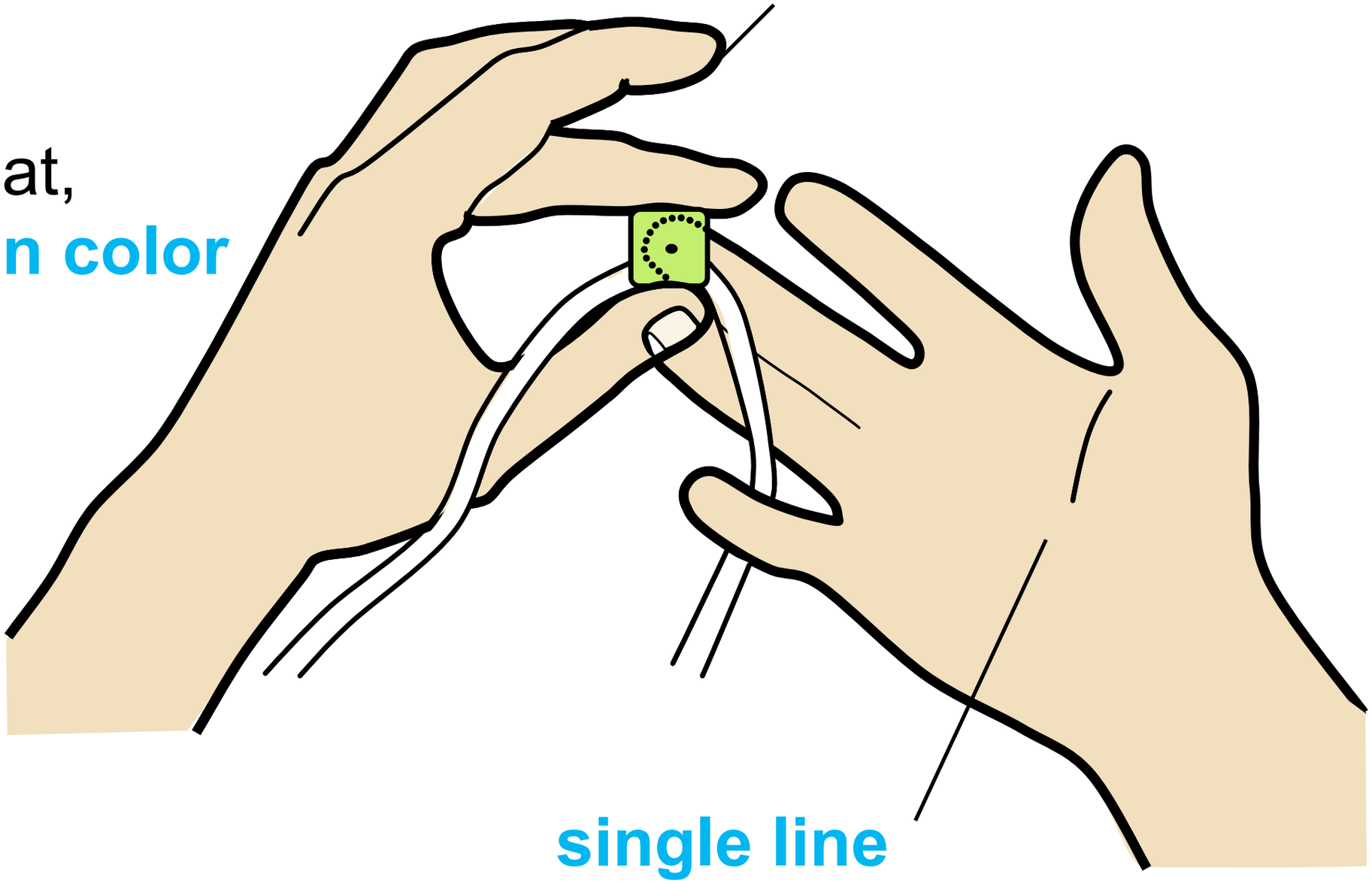


what are some things you notice in the drawing that make this look better?

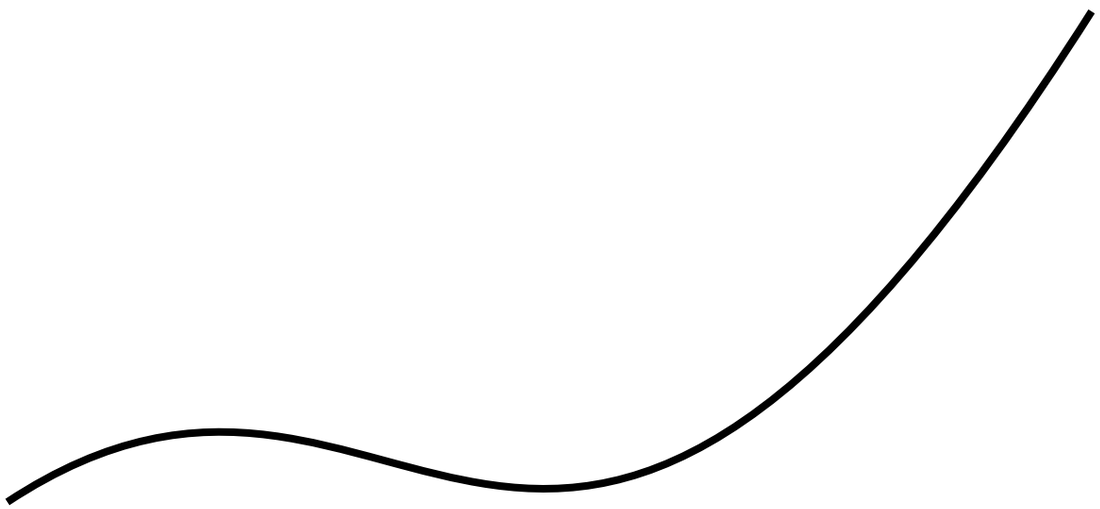
<30s brainstorming>

only **outer lines are thick,**
lines are thin when inside the hand.

single, flat,
pale skin color

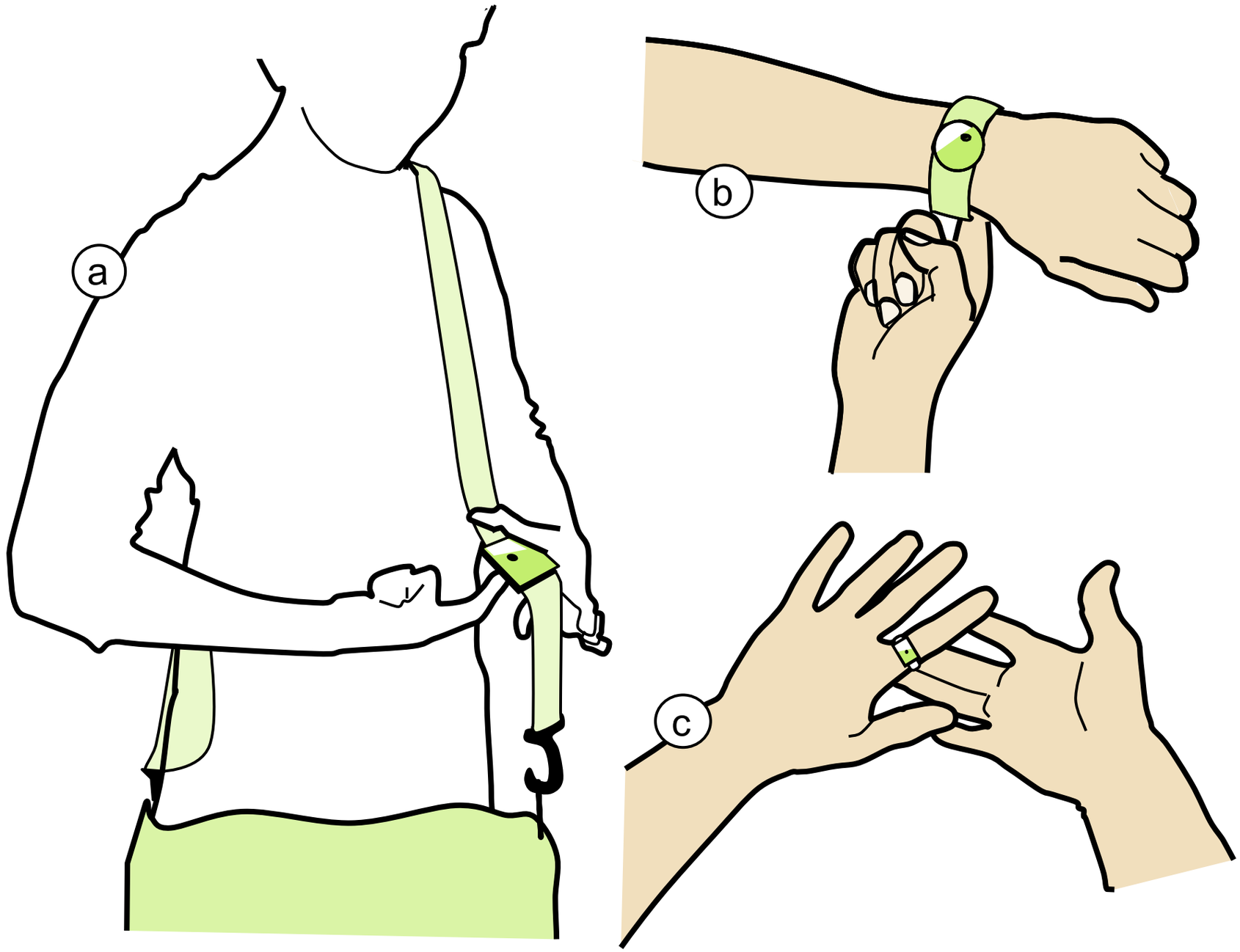


single line
indicates: this is
inside of hand



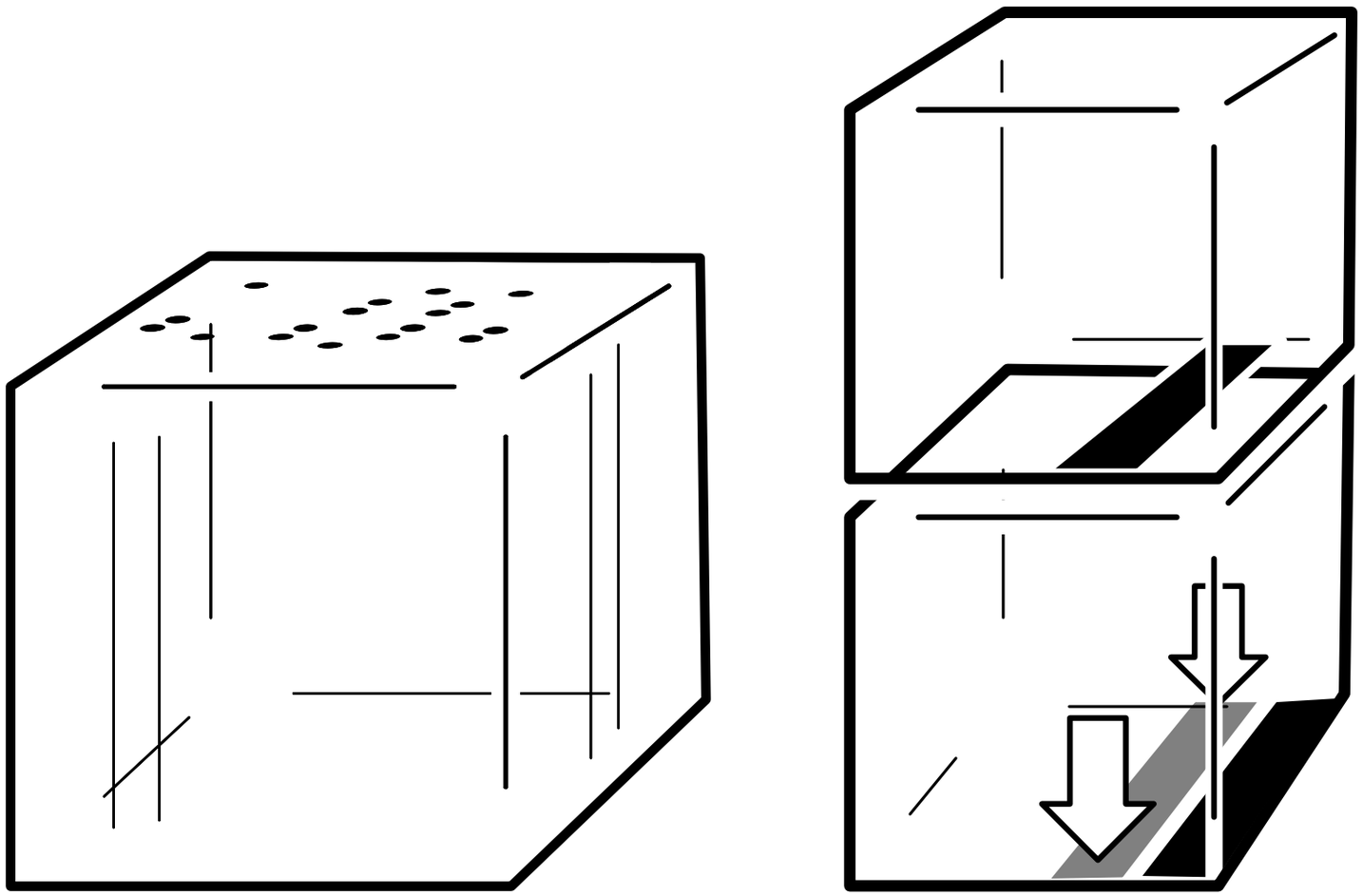
try to keep
number of **control points**
to a minimum.

the fewer points
the smoother the result



labels of sub-figures
partially overlap the figure

let’s look at **one more example…**

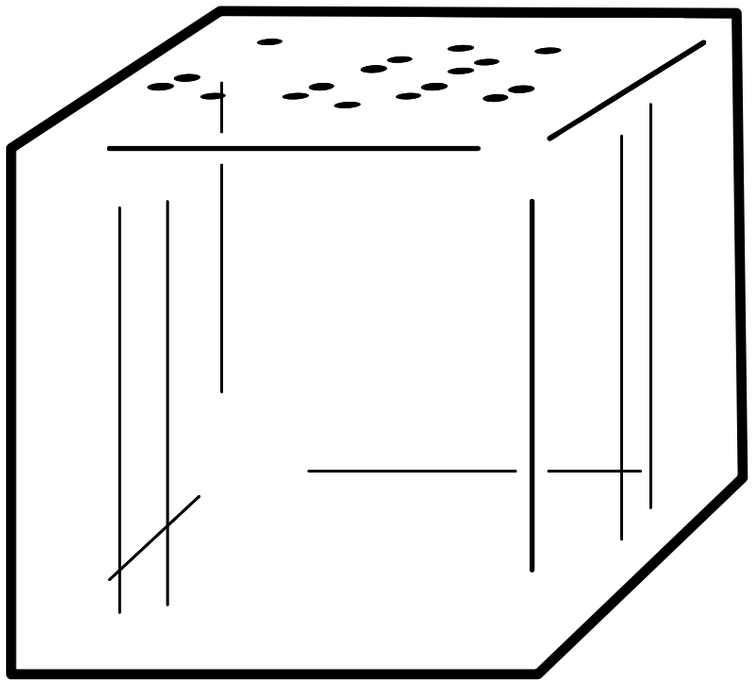


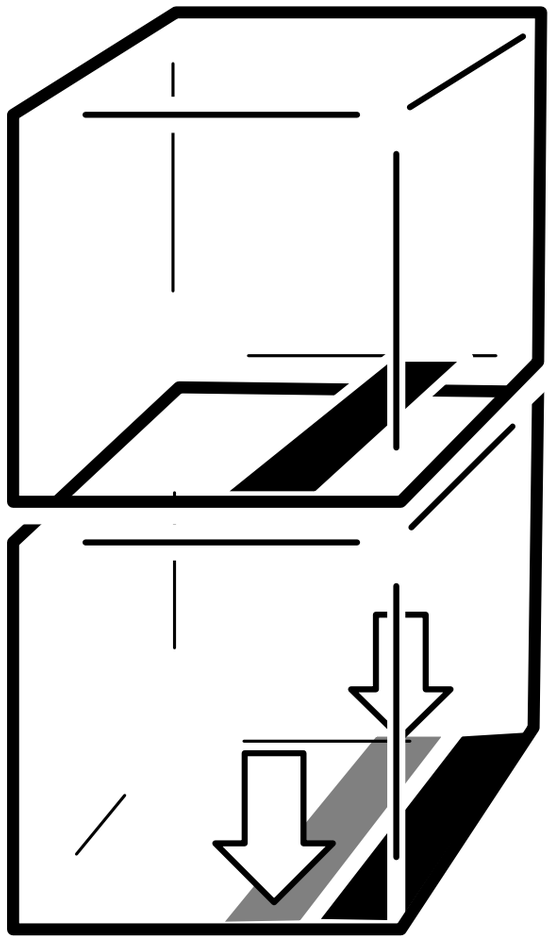
what are some things you notice in the drawing that make this look better?

<30s brainstorming>

“cut lines” = an extra white line
behind a black line to clarify depth ordering

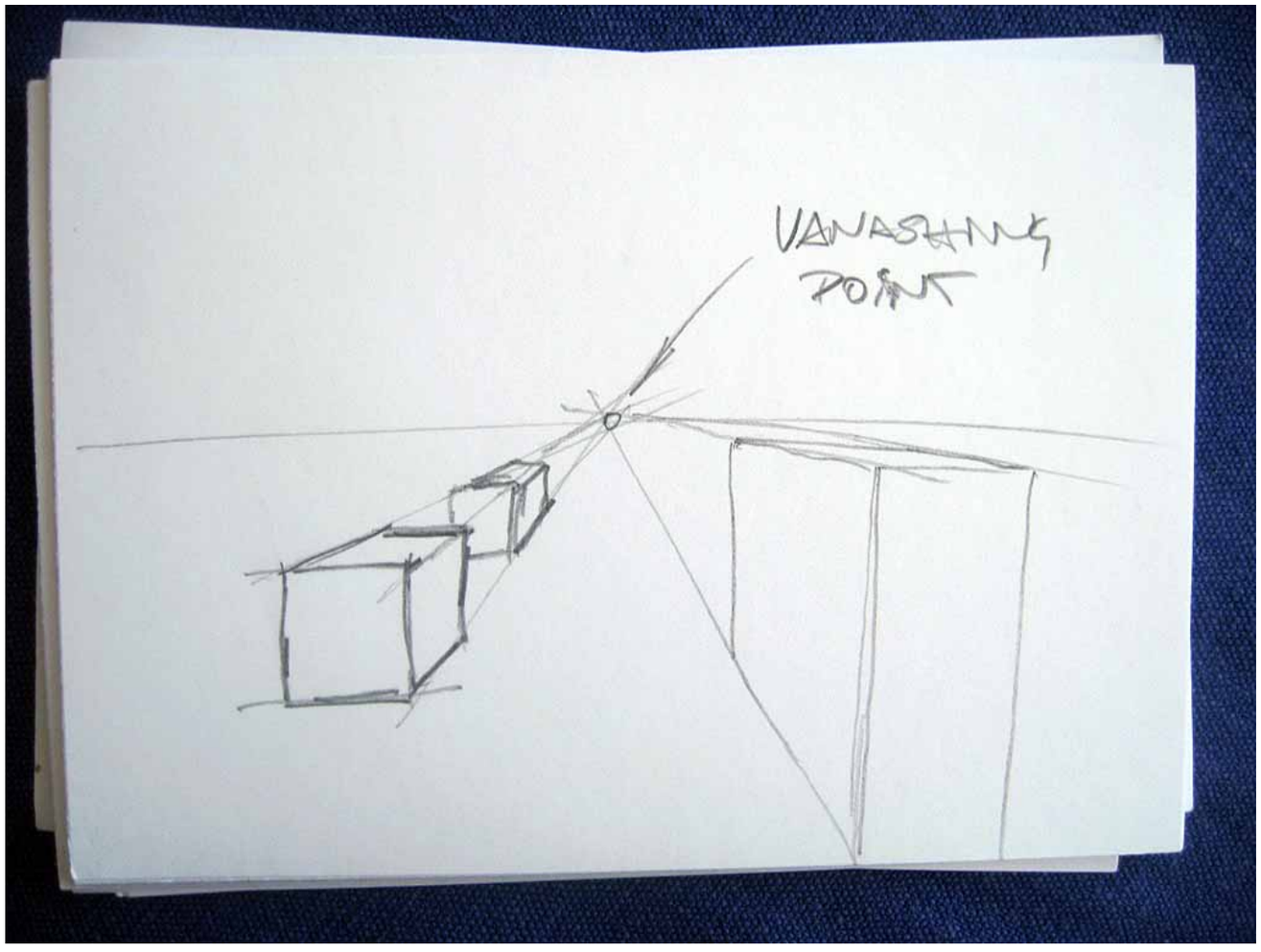
showing only
some fibers

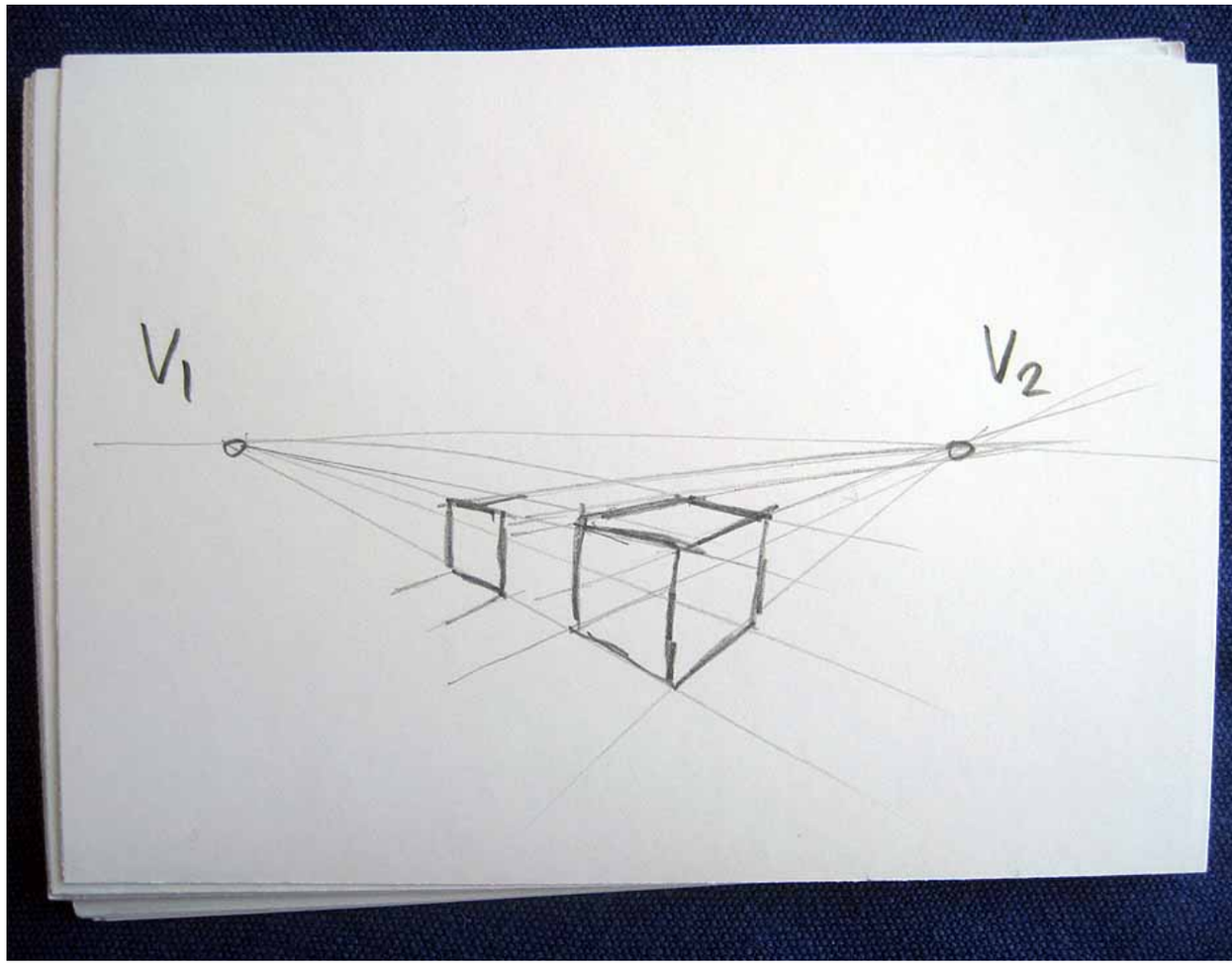


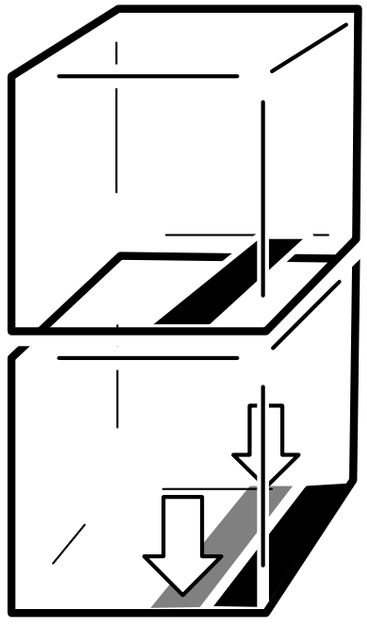


missing corner
makes it look round

perspective
(this is **not** two copies
of the same block)

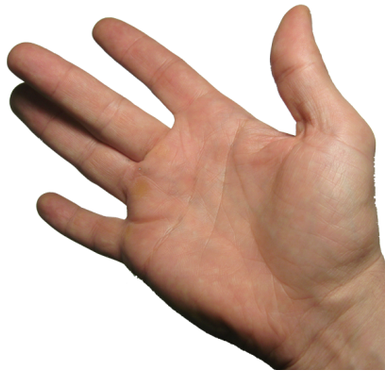




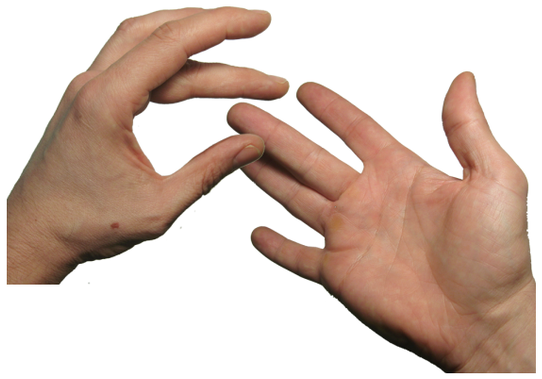


for **drawing perspective,**
use either one or two vanishing points

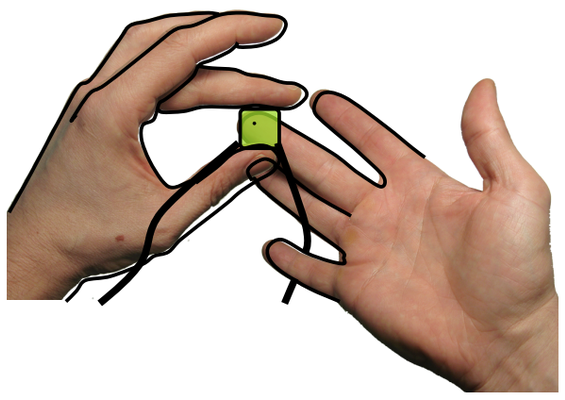
reuse and uniformity



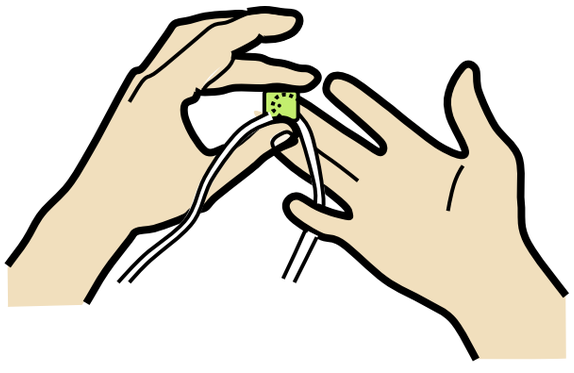
take elements separately



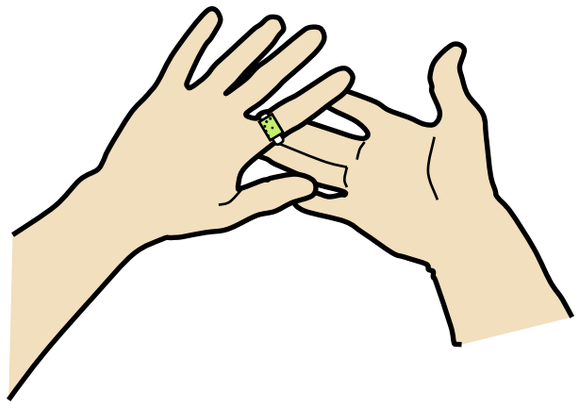
combine

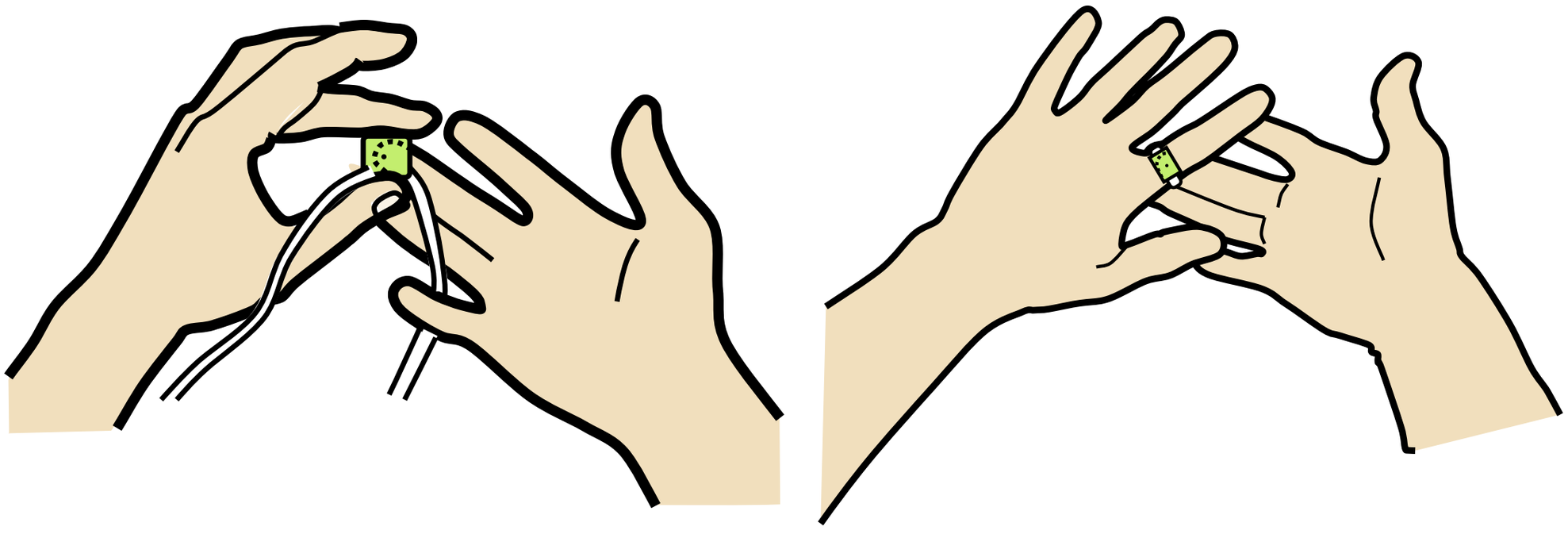


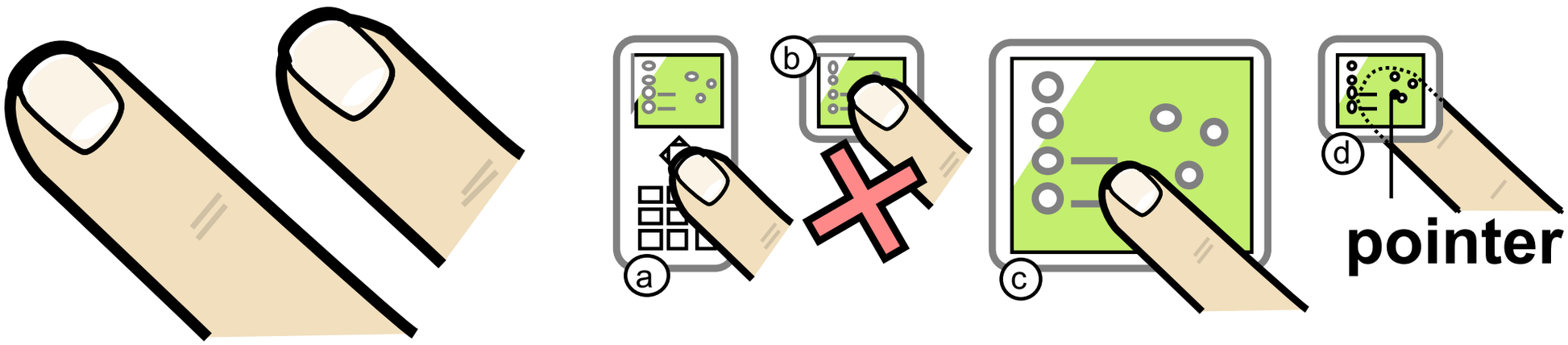
draw over



colorize







once you have a collection, you can quickly **reuse**

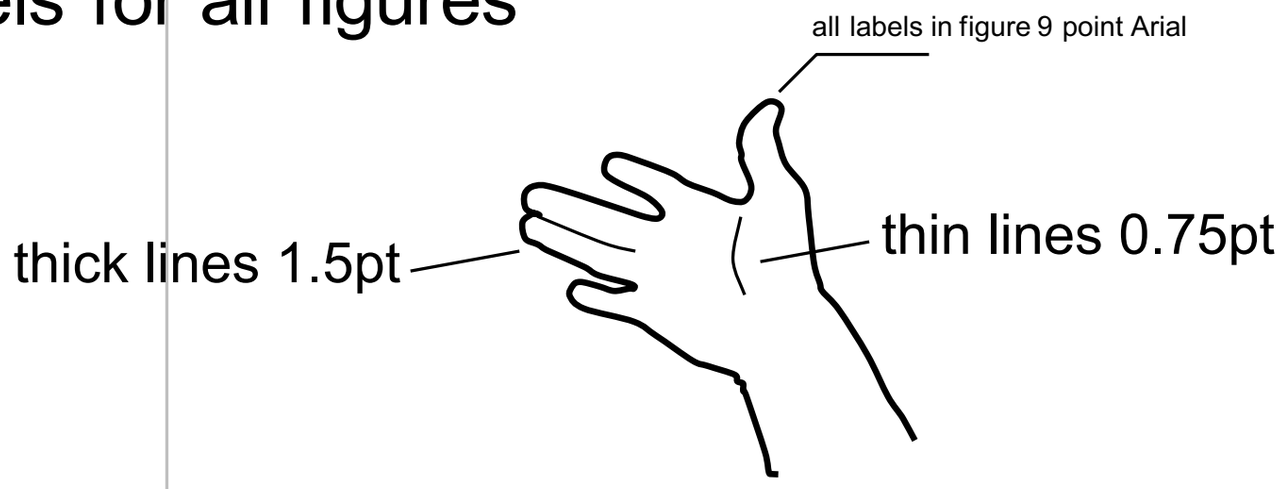
making a stencil slide

with all the elements you need → will help you make the paper look uniformly

3.33”

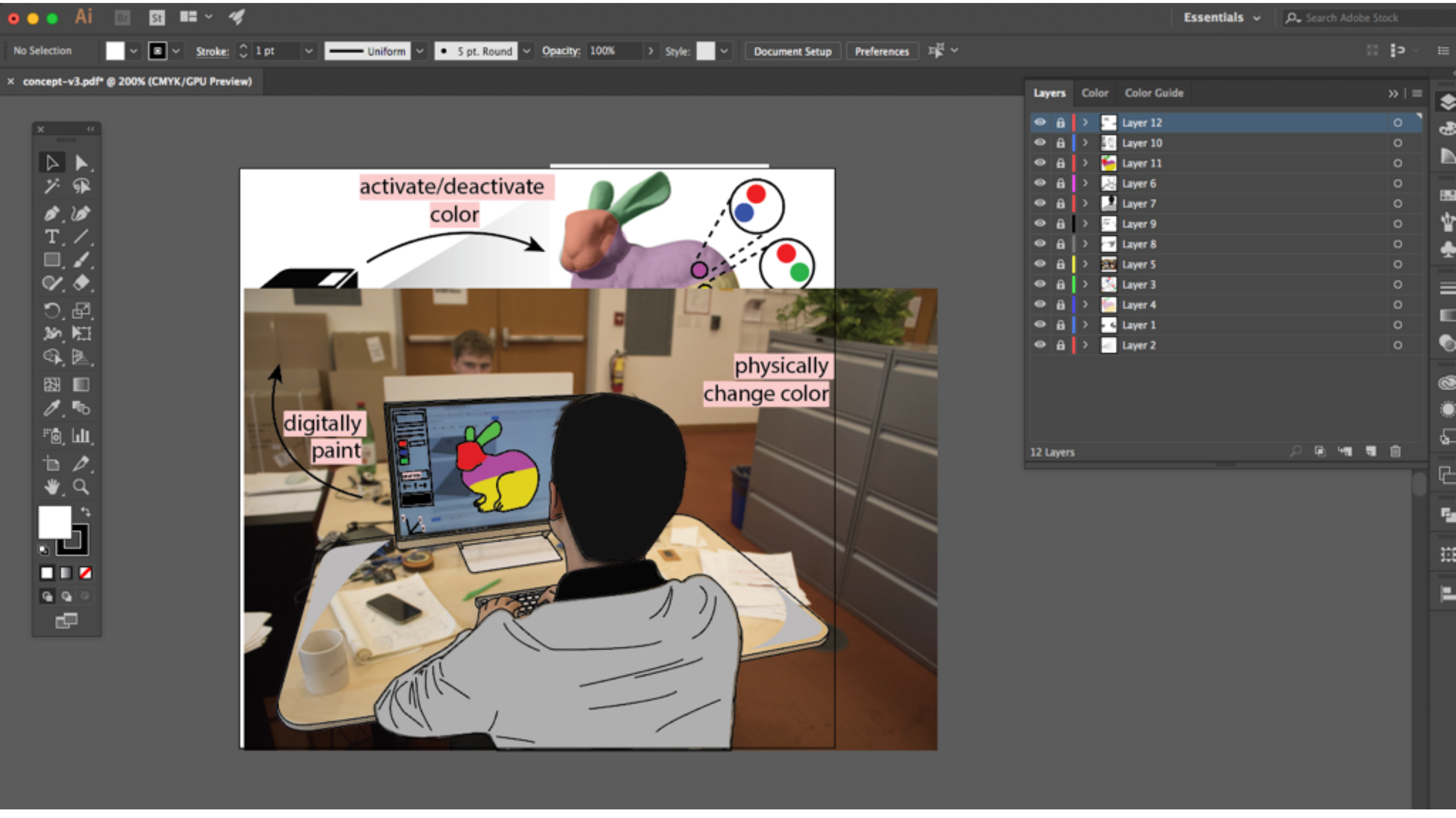
a 3.33” column
on the slide master
helps **draw everything to scale**

ⓐ
ⓑ label sub-figures (a), (b),
use same labels for all figures



black prints well, avoid color unless meaningful

what drawing tool to use?



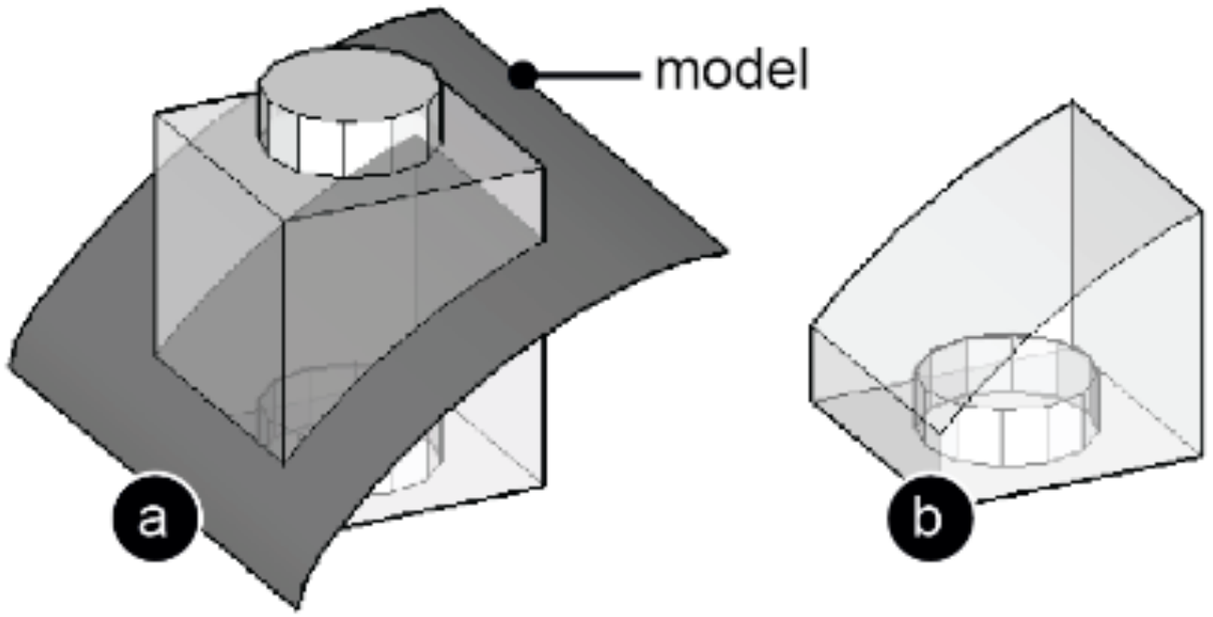
anything that has a **path pen tool**

Illustrator, inkscape, opendraw.

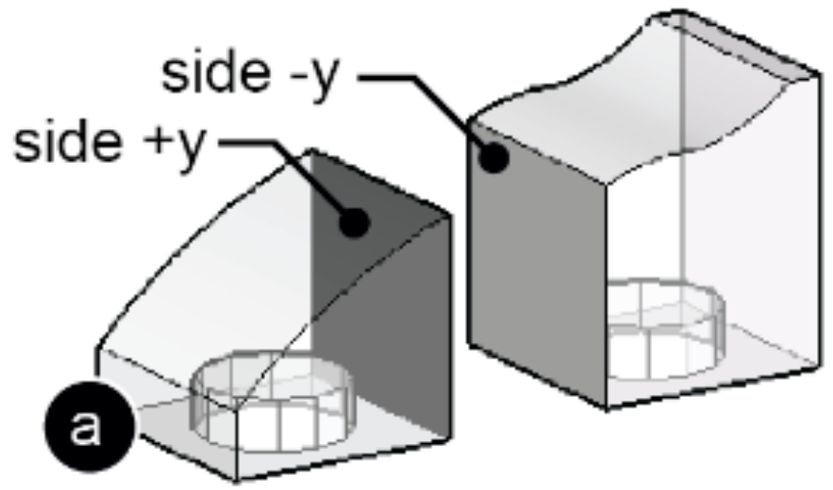
<live demo>

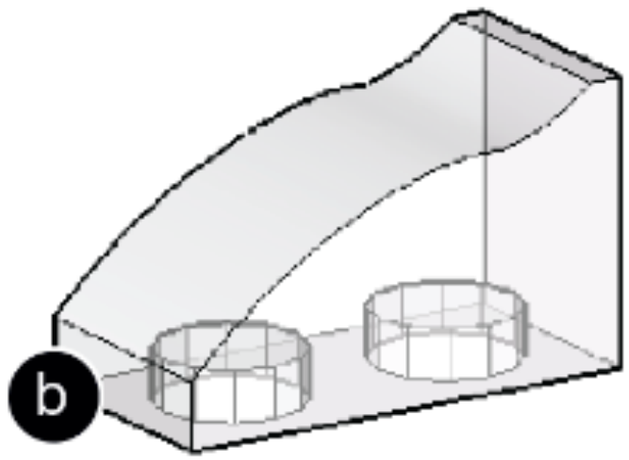

ABB
ABB

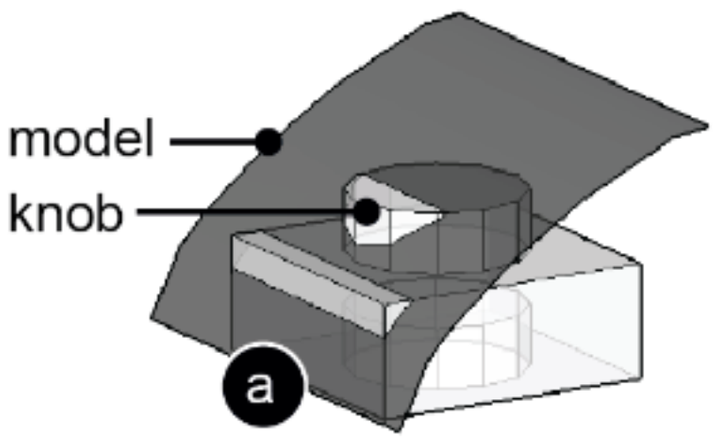
other ways to make rotos

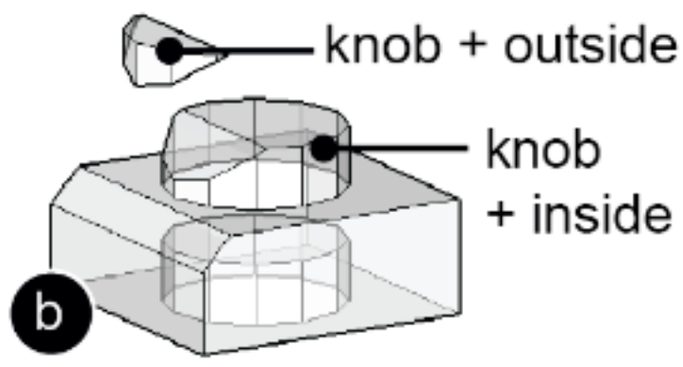


3D modeled
then rendered
as sketch









I think this was Solidworks.

[Tobias Mohr]

exercise

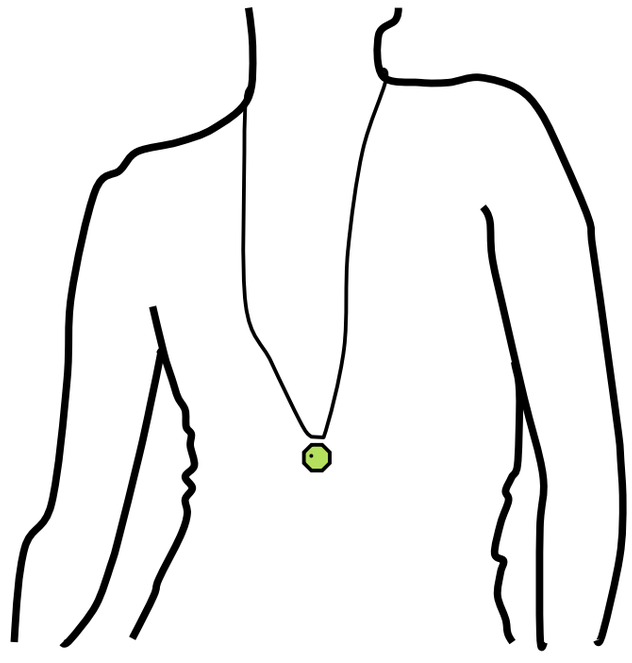
feel free to leave when you are done, see you on wednesday :)

make your own rotoscope::

1. take one of your project ideas
2. google image search or pose a classmate
3. rotoscope

take photo

trace lines



remove photo

<30 minutes>

end.