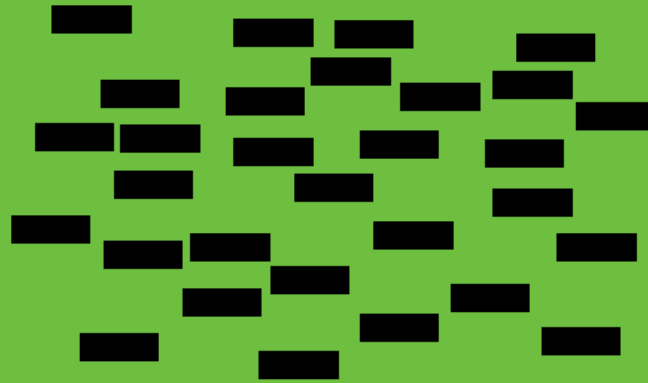


EXERCISE

Draw a group of lines like this, and come up with different ways to make one or more lines stand out



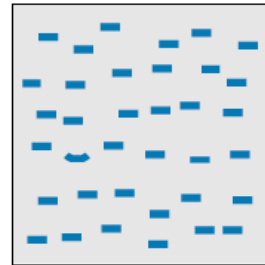
10 minutes

groeperen en samenhang

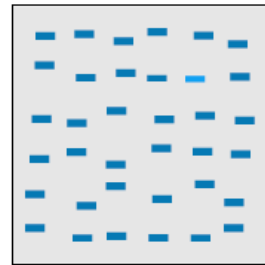
GESTALT



line (blob) orientation
Júlész & Bergen 83; Sagi & Júlész 85a, Wolfe et al. 92; Weigle et al. 2000



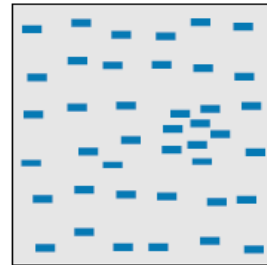
curvature
Treisman & Gormican 88



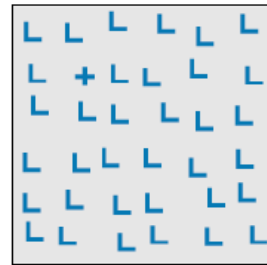
intensity, binocular lustre
Beck et al. 83; Treisman & Gormican 88; Wolfe & Franzel 88



length, width
Sagi & Júlész 85b; Treisman & Gormican 88



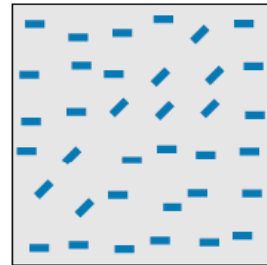
density, contrast
Healey & Enns 98; Healey & Enns 99



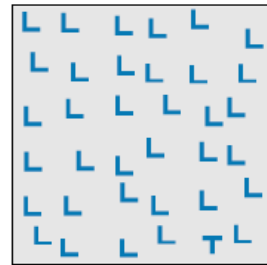
intersection
Júlész & Bergen 83



closure
Júlész & Bergen 83



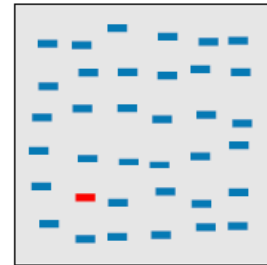
number, estimation
Sagi & Júlész 85b; Healey et al. 93; Trick & Pylyshyn 94



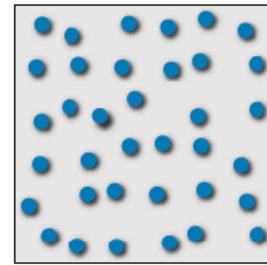
terminators
Júlész & Bergen 83



size
Treisman & Gelade 80; Healey & Enns 98; Healey & Enns 99

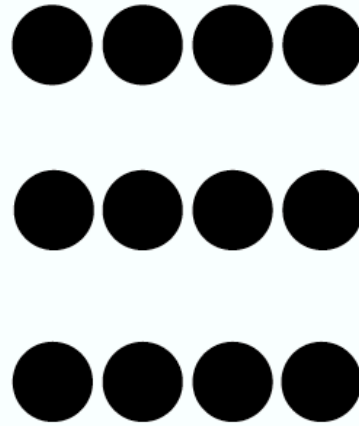


colour (hue)
Nagy & Sanchez 90; Nagy et al. 90; D'Zmura 91; Kawai et al. 95; Bauer et al. 96; Healey 96; Bauer et al. 98; Healey & Enns 99



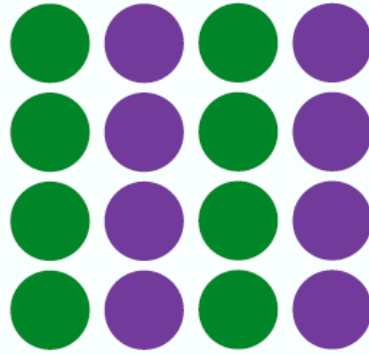
3D depth cues
Enns 90b; Nakayama & Silverman 86

proximity



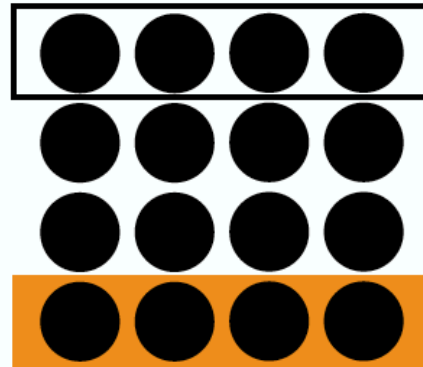
We see three rows of dots instead of four columns of dots because they are closer horizontally than vertically.

similarity



We see similar looking objects as part of the same group.

enclosure



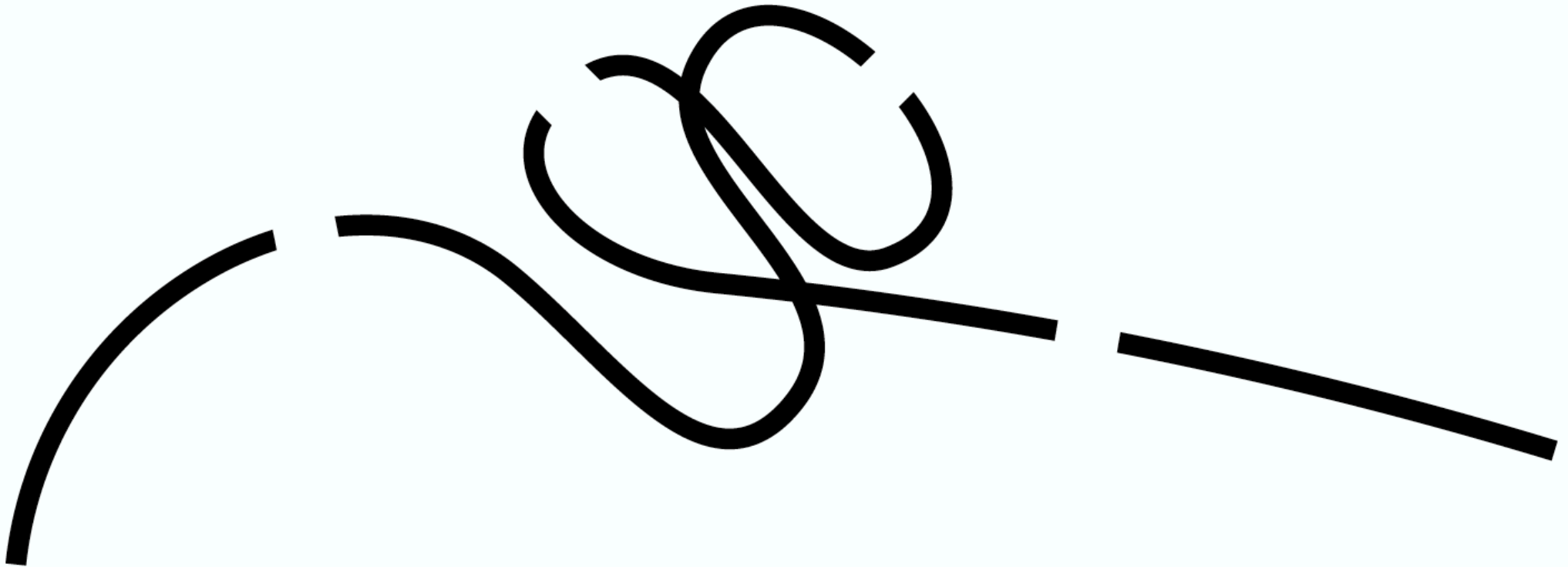
We group the first four and and last four dots as two rows instead of eight dots.

symmetry

[] { } []

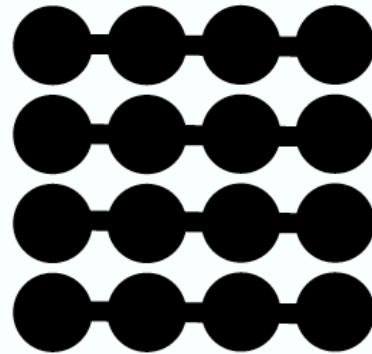
We see three pairs of symmetrical brackets rather than six individual brackets.

closure



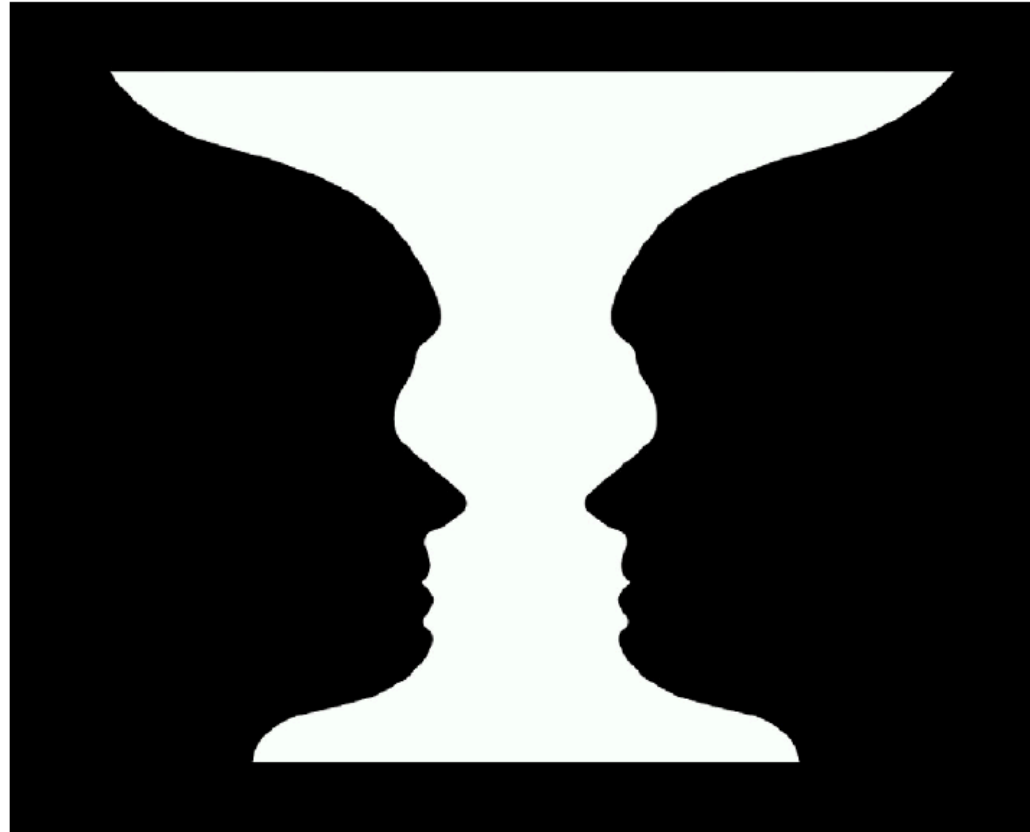
We see one continuous path instead of four arbitrary ones.

connection



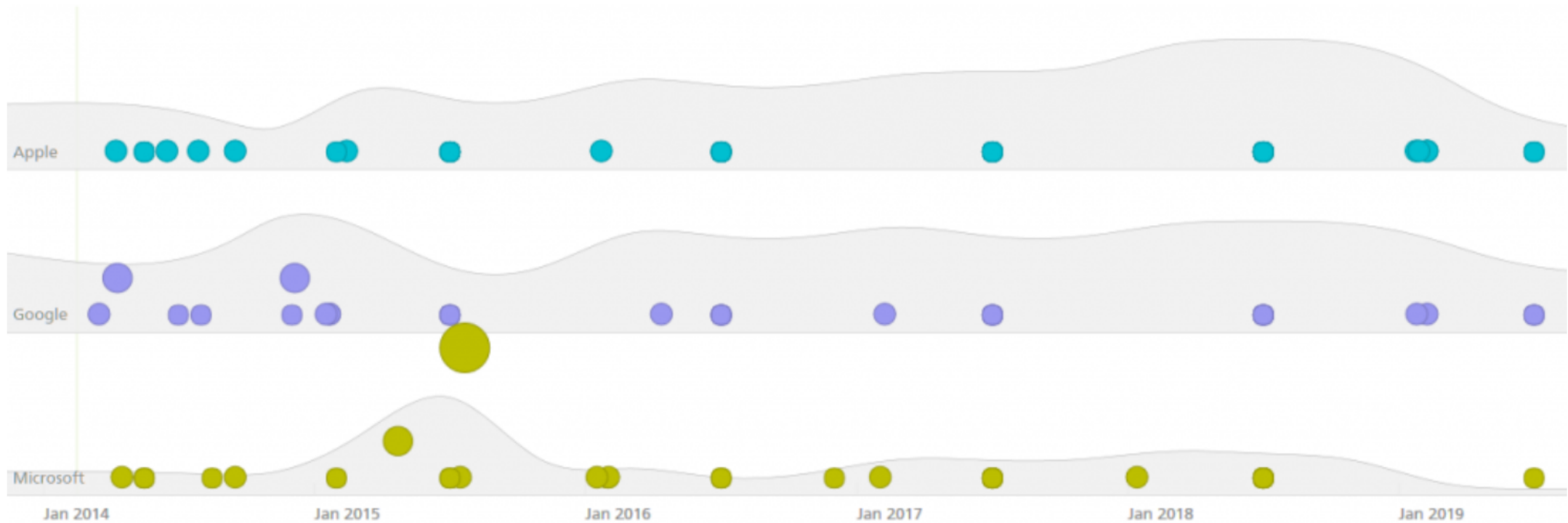
We group the connected dots as belonging to the same group.

figure & ground

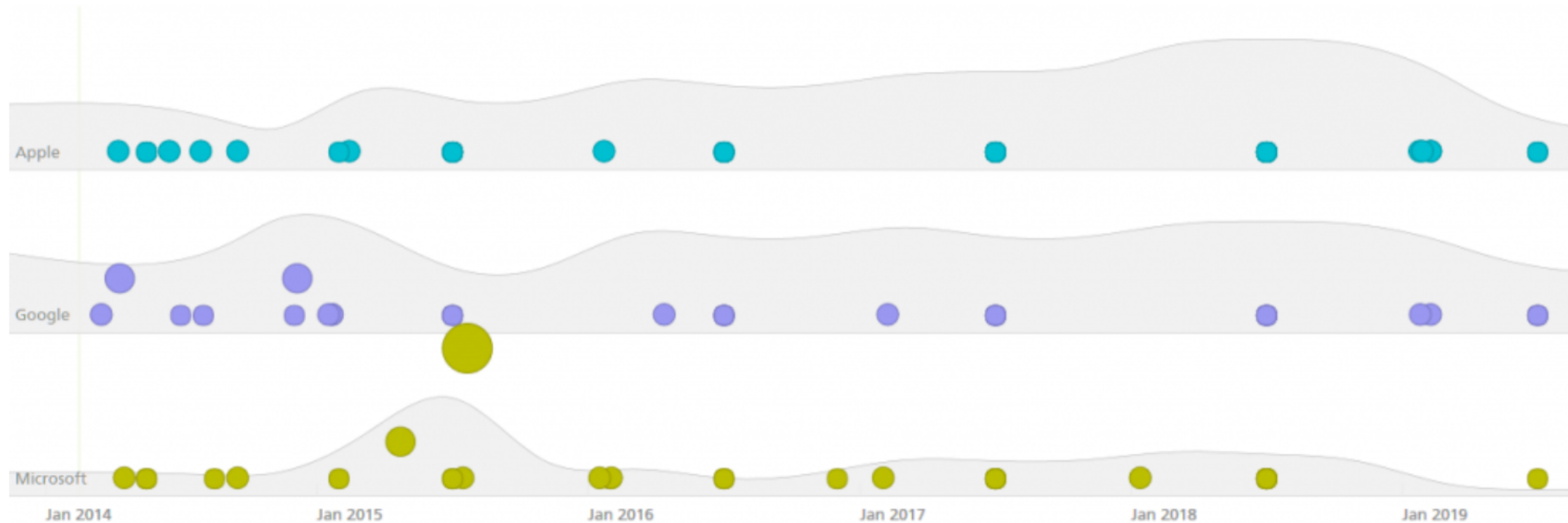


We either notice the two faces, or the vase. Whichever we notice becomes the figure, and the other the ground.

Welke gestaltwetten?



mentions of Apple, Google and Microsoft on the web (via Recorded Future)



mentions of Apple, Google and Microsoft on the web (via Recorded Future)

bubbles stand out from background : Figure & Ground

bubbles are organized along a horizontal line : Proximity

bubble groups share the same color: Similarity