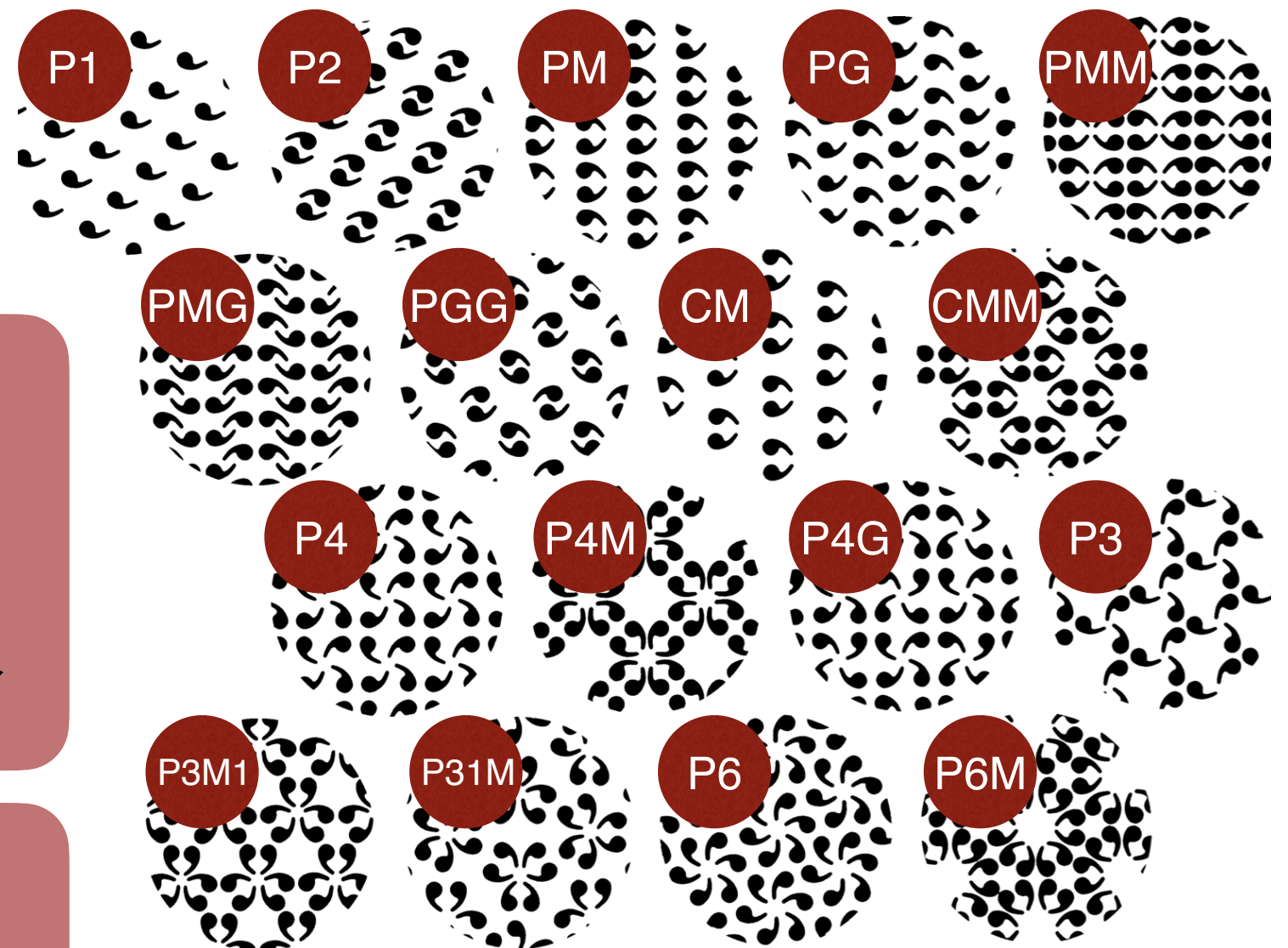
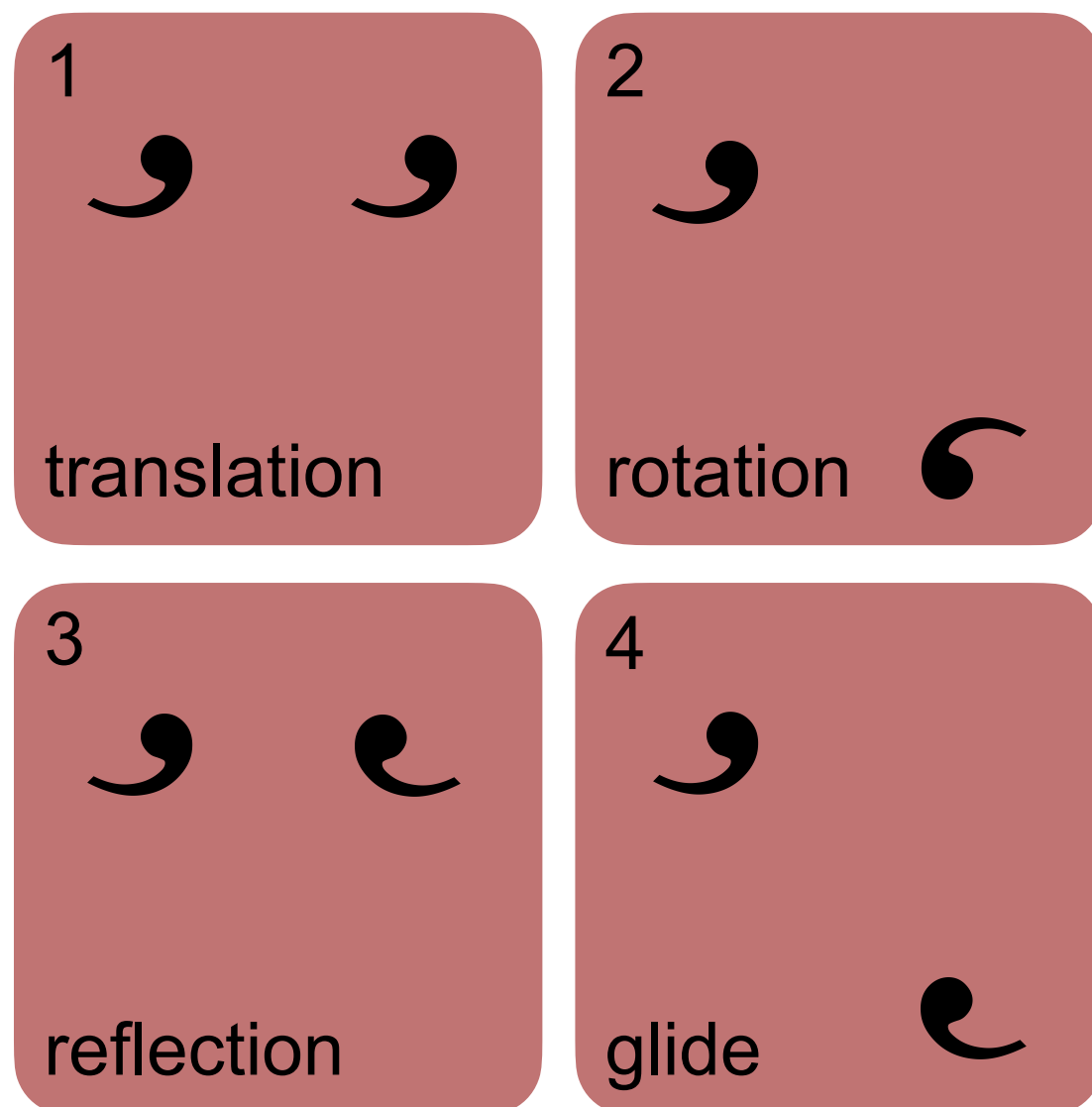


Wallpaper groups

four kinds of symmetry
can be combined in
exactly 17 unique ways



schematic from Wade, 1993

this is the complete set of
symmetries in 2D images

(Liu, Hel-Or, Kaplan & van Gool, 2010)