1116-K5-1732   **Annalisa Crannell*** (`annalisa.crannell@fandm.edu`), **Marc Frantz** (`mfrantz@indiana.edu`) and **Fumiko Futamura** (`futamurf@southwestern.edu`). *The perspective image(s) of a square.*

Moving from the visual realm of perspective art into the mathematical realm of projective geometry yields some surprising and counter-intuitive results. One of these surprises is that *every* quadrangle (whether convex or not) is the perspective image of a square. We will describe implications of this result for computer vision, for photogrammetry, for topology of non-orientable surfaces, and of course for perspective art and projective geometry. (Received September 21, 2015)