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Marc Frantz* (mfrantz@indiana.edu), Department of Mathematics, Indiana University, Bloomington, IN 47405, and **Fumiko Futamura** and **Annalisa Crannell**. *Hyperbola: Under Construction!*

We examine a perspective illusion in a picture of a building under construction, and find that it illustrates various mathematical topics, including conic sections and graphs of rational functions. In the setting of projective geometry, the illusion motivates the discussion of perspectivities, projectivities, and Steiner's definition of a conic. The picture also suggests the design of a classic hyperbola-drawing linkage attributed to Descartes, which we demonstrate with Geometer's Sketchpad. (Received September 04, 2014)