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Leon Brin* (brin11@southernct.edu), Southern CT State University, Math Department, New Haven, CT 06515. *Turtles, and Lizards, and Snakes, Oh My!* Preliminary report.

No, not that kind of reptile. A rep-tile, or replicating tile, is a plane figure for which some number of copies of itself can be fitted together to form a figure similar to but larger than the original. So went the 1940 description of such shapes, the simplest of which are triangles and rectangles. First, we will traverse a varied sample of such shapes. Then, turning this definition around, we will see that certain fractals are rep-tiles. We will finish with a discussion of a natural generalization and a natural restriction of the original definition. (Received September 18, 2009)