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Robert Bosch* (rbosch@oberlin.edu), Department of Mathematics, Oberlin College, Oberlin, OH 44074. *Constrained Mosaicking: Less Can Be More*. Preliminary report.

We consider two types of constrained mosaics - edge-matched mosaics and map-colored mosaics - and argue that in each case, less can be more. That is, contrary to what one might expect, one can often produce much more attractive mosaics with a smaller set of tesserae (in the case of edge-matched mosaics) or a smaller number of shades of gray (in the case of map-colored mosaics) than with a larger set of tesserae or a larger number of shades of gray. (Received September 12, 2010)