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Ramlah Ahmad, Mai Dao* (mdao@smith.edu) and **Tommi Gans.** *Invariants of Colored Knots.* Preliminary report.

Given a diagram of a knot, a three-coloring is an assignment of one of three colors to each arc of the diagram, in such a way that at each crossing, either all three colors appear, or only one color appears. The number of different three-colorings of a knot is a knot invariant. We study other invariants derived from three-colorings of knots, including the classical dihedral linking number, from both diagrammatic and computational perspectives. (Received September 26, 2018)