In 1973 Lohwater and Pommerenke proved a rescaling characterization of non-normal functions on the unit disk $\mathbb{D}$. In 1975 Zalcman established a rescaling characterization of non-normal families of meromorphic functions on $\mathbb{D}$ by using an adaptation of the Lohwater-Pommerenke technique. Zalcman’s Rescaling Lemma has proved valuable in function theory and related fields. The proofs of these and related scaling results has been analytic. A uniform geometric approach to these and other rescaling results for various non-Lipschitz families of analytic functions is presented. The main tool is a natural non-expanding conformal rescaling of an individual analytic function that provides a systematic geometric approach to rescaling results in a number of contexts. The original affine rescalings of Lohwater-Pommerenke and Zalcman follow from these conformal rescalings by using affine approximations for conformal mappings. (Received February 10, 2014)