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Abstract: Discrete conformal geometry explores how the theory of classical complex analysis can be carried to a discrete setting. The field offers a beautiful interplay of computational, geometric, and combinatorial tools. There are different tools for discretizing the classical theory, including circle packings, square packings, electric networks, and extremal length, but the different models can give subtly different results. This talk will illustrate these different approaches and test some of the boundaries between them, inviting general consideration of how one moves a question from a continuous to a discrete setting.