Uniformization: Past and Present

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The uniformization problem in classical complex analysis has a long history and can be traced back to Gauss (conformal or isothermal coordinates on surfaces) and Riemann (conformal maps of simply connected domains). Questions in analysis and geometry have recently led to the investigation of related, more general problems in a metric space setting. I will give a survey of this topic discussing classical and modern developments. The talk will be accessible for a general mathematical audience.