

1163-AF-297 **Mits Kobayashi*** (mitsuo.kobayashi@dartmouth.edu). *Visualizing Infinite Series*.

Historically, infinite series had a geometric interpretation, although modern practice is to work with them completely algebraically. We briefly give some examples of classical “geometric” series as well as a more recent attempt by Viggo Brun to give a geometric interpretation to a series for $\pi/4$. Although Brun’s method is ad hoc, we show that the same result and others can be found using standard results in single-variable calculus. We demonstrate the wider applicability of this method by giving a geometric interpretation to a series involving the Euler-Mascheroni constant. (Received September 01, 2020)