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Factorization homology, introduced by Ayala, Francis, and Tanaka, generalizes Hochschild homology. Helme-Guizon and Rong's chromatic graph homology of a circle approximates Hochschild homology. We show that chromatic homology can be obtained in a similar way as factorization homology. The main difference between the two constructions stems from using derived versus underived products. Therefore the chromatic homology of any graph can be thought of as an approximation of factorization homology. (Received July 23, 2017)