Tim Doyle (doyletj@whitman.edu), Lauren Kutler, Robin Miller and Albert Schueller* (schuelaw@whitman.edu), 345 Boyer Avenue, Whitman College, Walla Walla, WA 99362. On Proofs Without Words and Beyond.

We discuss the history of the Proofs Without Words feature of the MAA’s Mathematics Magazine and The College Mathematics Journal periodicals. We provide a philosophical context for the consideration of these mathematical artifacts as “proof” through the lens of Gottlob Frege’s The Foundations of Arithmetic. We demonstrate several on-line, interactive, adaptations of selected Proofs Without Words that we have created. We argue that these on-line, interactive visual proofs are the next logical step in the evolution of Proofs Without Words. (Received August 28, 2013)