1167-05-25 **Blake Dunshee**, **Mark Ellingham*** (mark.ellingham@vanderbilt.edu) and **Joanna A. Ellis-Monaghan**. *Directed and directable embeddings.*

An embedding of a digraph is a *directed embedding* if every face boundary is a directed walk. An embedding of an undirected graph is *directable* if its edges can be oriented so as to yield a directed embedding. We discuss the history of directed embeddings, starting with the work by Tutte and his collaborators in the 1940s on dissecting a triangle into smaller triangles. We provide a characterization of when an embedding is directable, and examine questions such as completing a partial directed embedding, where some but not all faces are prescribed. (Received January 31, 2021)