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Reflexive Injective Oriented Colouring

We focus on said colourings that are neighbourhood-injective, which we call rio-colourings. The question of whether an oriented graph is k -rio-colourable turns out to hold dichotomy above and below $k=3$ and we briefly consider an interesting structure that resulted from its proof. We characterize the 2-rio-colourable oriented graphs, and finish by presenting rio-cliques along with bounds on the rio-chromatic number, which can be improved when restricting ourselves to oriented trees.