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Classifying diagrams and equivariant operads

One description of the composition product for operads can be formulated elegantly in terms of the component spaces of the classifying diagram associated to a small category. The classifying diagram was originally developed as one way to regard a category as a complete Segal space, and can be thought of as a refinement of the ordinary nerve construction. In ongoing work with Calle, Chan, Osorno, and Sarazola, we want to develop a similar approach to a composition product for equivariant operads. For this purpose, we can use a similar construction using certain kinds of quotient maps in place of isomorphisms. We hope this construction will have a broader use in other equivariant constructions.