**Definition.** Let  $\mathcal{O}, \mathcal{P}$  be operads. A *functor* between operads  $F: \mathcal{O} \to \mathcal{P}$  is composed of: 1. A function  $F_{ob}: Ob_{\mathcal{O}} \to Ob_{\mathcal{P}}$ ;

2. A function  $F_{\text{mor}}$ :  $\text{Hom}_{\mathcal{O}}([X_1, ..., X_n]; Y) \to \text{Hom}_{\mathcal{P}}([F_{\text{ob}}(X_1), ..., F_{\text{ob}}(X_n)]; F_{\text{ob}}(Y))$ . These constituents must satisfy conditions which encode compatibility with the composition operations and with identity morphisms; these conditions are analogous to the ones in the definition of a functor between categories.