

Definition (**V**-profunctor). Let \mathbf{A} and \mathbf{B} be categories enriched in \mathbf{V} . A profunctor enriched in \mathbf{V} from \mathbf{A} to \mathbf{B} , denoted $F : \mathbf{A} \multimap \mathbf{B}$, is a functor enriched in \mathbf{V} :

$$F : \mathbf{A}^{\mathrm{op}} \times \mathbf{B} \rightarrow \mathbf{V}.$$