

**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  $\mathbf{V}$ :

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