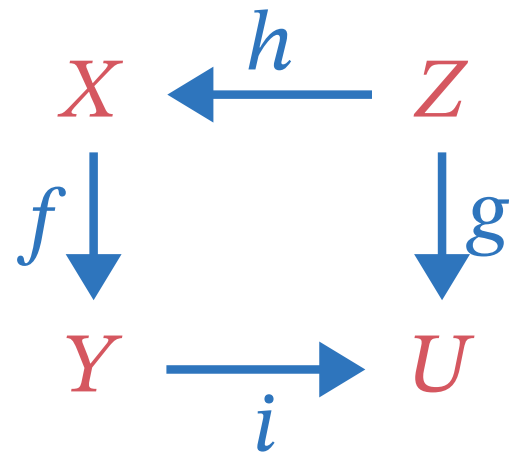


Definition (Twisted arrow category)

Given a category \mathbf{C} , we denote its *twisted arrow category* by $\mathbf{Tw}(\mathbf{C})$. This is a category which is composed of:

1. *Objects*: Arrows (morphisms) in \mathbf{C} .
2. *Morphisms*: A morphism between two arrows $f : X \rightarrow Y$, $g : Z \rightarrow U$ is given by a pair of arrows $\langle h, i \rangle$ such that the following diagram commutes:



3. *Composition*: Composition in $\mathbf{Tw}(\mathbf{C})$ is given by placing commutative squares side by side.

Give example