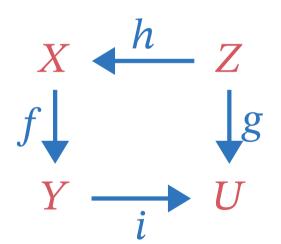
Definition (Twisted arrow category). Given a category C, we denote its *twisted* arrow category by TwC. This is a category which is composed of:

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



3. Composition: Composition in Tw(C) is given by playing commutative squares side by side.