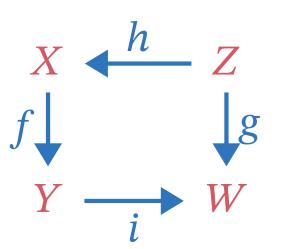
**Definition** (Twisted arrow category). Given a category **C**, we denote its *twisted* arrow category by Tw (**C**). This is a category which is composed of:

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



- 3. *Identity morphisms*:
- 4. Composition: