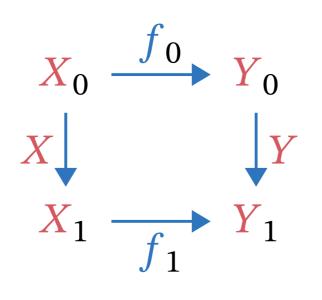
Definition (Arrow category)

- Given any category **C**, its *arrow category* **ArrC** is the category in which:
- 1. Objects: An object $X \in \mathbf{Arr}(\mathbf{C})$ is a morphism $X : X_0 \to X_1$ of \mathbf{C} ;
- 2. *Morphisms*: A morphism $f: X \to Y$ in **ArrC** is a commutative square



- in C;
- 3. Composition: Composition in **ArrC** is given by playing commutative squares side by side.