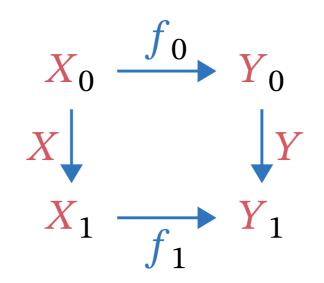
Definition (Arrow category)

Given any category \mathbf{C} , its *arrow category* $\mathbf{Arr}(\mathbf{C})$ is the category in which:

- 1. Objects: An object $X \in \mathbf{Arr}(\mathbf{A})$ is a morphism $X : X_0 \to X_1$ of \mathbf{C} ;
- 2. *Morphisms*: A morphism $f: X \to Y$ in Arr(C) is a commutative square



in C;

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