

A commutative diagram illustrating a natural transformation α between two functors F and G from a category \mathbf{C} to a category \mathbf{D} .

The diagram consists of the following elements:

- Category \mathbf{C} on the left and Category \mathbf{D} on the right, both in bold serif font.
- Functor F (in italic serif font) positioned above a curved arrow pointing from \mathbf{C} to \mathbf{D} .
- Functor G (in italic serif font) positioned below a curved arrow pointing from \mathbf{C} to \mathbf{D} .
- A natural transformation α (in italic serif font) represented by two parallel downward-pointing arrows between the two curved arrows.

The diagram shows that for any object in \mathbf{C} , the image of the object under F and G are connected by the component α of the natural transformation.