Coalgebras

```
CoAlgebra : (func : Functor 𝒰) → 𝒰 ⁺ ̇
CoAlgebra func = Σ A : _ , (A → F.Fn A) where
 private
  module F = Functor func


module CoAlgebra func (co : CoAlgebra {𝒰} func) where

 open Functor func

 ⟨_⟩ : 𝒰 ̇
 ⟨_⟩ = co .pr₁

 _↓ : ⟨_⟩ → Fn ⟨_⟩
 _↓ = co .pr₂

module CoAlgebra₂ func (a b : CoAlgebra {𝒰} func) where
 open Functor func

 open CoAlgebra func

 co-morphism : 𝒰 ̇
 co-morphism = Σ f : (⟨ a ⟩ → ⟨ b ⟩) , Fm f ∘ (a ↓) ~ (b ↓) ∘ f

 module Morphism (m : co-morphism) where
  _⟶ : ⟨ a ⟩ → ⟨ b ⟩
  _⟶ = m .pr₁

  _comm : Fm _ ∘ (a ↓) ~ (b ↓) ∘ _
  _comm = m .pr₂
```