

## Final Coalgebra

```
Final-CoAlgebra : Functor  $\mathcal{U} \rightarrow \mathcal{U}^+$ 
Final-CoAlgebra func =  $\Sigma$  fc : CoAlgebra func , ( $\forall$  co  $\rightarrow$  let open CoAlgebra2 func co fc
in is-singleton f-co-morphism)

module Final-CoAlgebra func (fc' : Final-CoAlgebra { $\mathcal{U} = \mathcal{U}$ } func) where

fc = fc' .pr1

uni : ( $\forall$  co  $\rightarrow$  let open CoAlgebra2 func co fc in is-singleton f-co-morphism)
uni = fc' .pr2
```