

cochains (all maps, discrete fields) and coboundary maps (δ^d operators)

$$\begin{array}{ccccccc}
 C^d & \xleftarrow{\delta^{d-1}} & C^{d-1} & \xleftarrow{\delta^{d-2}} & \cdots & \xleftarrow{\delta^1} & C^1 & \xleftarrow{\delta^0} & C^0 \\
 \updownarrow \cong & & \updownarrow \cong & & & & \updownarrow \cong & & \updownarrow \cong \\
 C_d & \xrightarrow{\partial_d} & C_{d-1} & \xrightarrow{\partial_{d-1}} & \cdots & \xrightarrow{\partial_2} & C_1 & \xrightarrow{\partial_1} & C_0
 \end{array}$$

chains (linear spaces of model subsets) and boundary maps (∂_d operators)