Datapoint

Inference Model
$q(\mathbf{z}|\mathbf{x})$

Sample
$\mathbf{z}$

Generative Model
$p(\mathbf{x},\mathbf{z})$

Objective
$\text{ELBO} = \log p(\mathbf{x},\mathbf{z}) - \log q(\mathbf{z}|\mathbf{x})$