Training D Input \downarrow \mathcal{A} Learner \downarrow q_D Model

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Testing
$$(oldsymbol{X},oldsymbol{Y}) \sim P(\mathcal{X},\mathcal{Y})$$
 $q_D(oldsymbol{X}) = oldsymbol{Y}'$ $\ell(oldsymbol{Y},oldsymbol{Y}')$