



$$\begin{array}{c|c} \mathbf{Z} & G(\mathbf{z}) & D_1(G(\mathbf{z})) \\ \hline \tilde{\mathbf{Z}} & G(\tilde{\mathbf{z}}) & D_2(\mathbf{A}G(\tilde{\mathbf{z}})) \\ \hline \end{array} \qquad \begin{array}{c|c} \log(1 - D_1(G(\mathbf{z}))) + \\ \log(1 - D_2(\mathbf{A}G(\tilde{\mathbf{z}}))) \\ \hline \end{array}$$

$$\begin{array}{c|c} \operatorname{Gradient Descent} \\ \operatorname{update } G \end{array}$$