

$$\begin{array}{ccc}
\mathrm{Hom}(X_2, Y) & \longleftrightarrow & \mathrm{Hom}(A(Y), \mathcal{O}_{X_2}) \\
\downarrow & & \downarrow \\
\mathrm{Hom}(X_1, Y) & \longleftrightarrow & \mathrm{Hom}(A(Y), \mathcal{O}_{X_1})
\end{array}$$