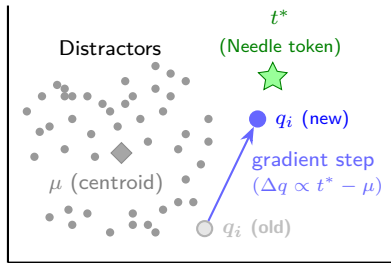


Gradient
step



$\nabla_{q_i} \ell \propto \mu - t^* \Rightarrow$ gradient descent moves q toward t^* (needle) and away from μ .