

... and more

geometric, based on inner product:

$$\Phi(x, y) = \|x - y\|^2, H(x) = 0, D(x, y) = \|x - y\|^2.$$

relative geometric, based on inner product:

$$\begin{aligned} -\Phi_{y_0}(x, y) &= \|y_0 - x\|^2 - \|y - x\|^2, \\ -H_{y_0}(x) &= \|y_0 - x\|^2, D_{y_0}(x, y) = \|x - y\|^2. \end{aligned}$$