## **Definition** (Scott continuity) A map $f: \mathbf{P} \to \mathbf{Q}$ between DCPOs is Scott continuous iff for each directed

subset  $D \subseteq \mathbf{P}$ , the image f(D) is directed, and  $f(\operatorname{Sup} D) = \operatorname{Sup} f(D)$ .