Definition (Upper closure operator). The *upper closure operator* ↑ maps a subset to the smallest upper set that includes it:

 $S \mapsto \{ y \in \mathbf{P} \mid \exists x \in S : x \leq_{\mathbf{P}} y \}.$

 $\uparrow: \mathscr{P}\mathbf{P} \to \mathscr{U}\mathbf{P}$