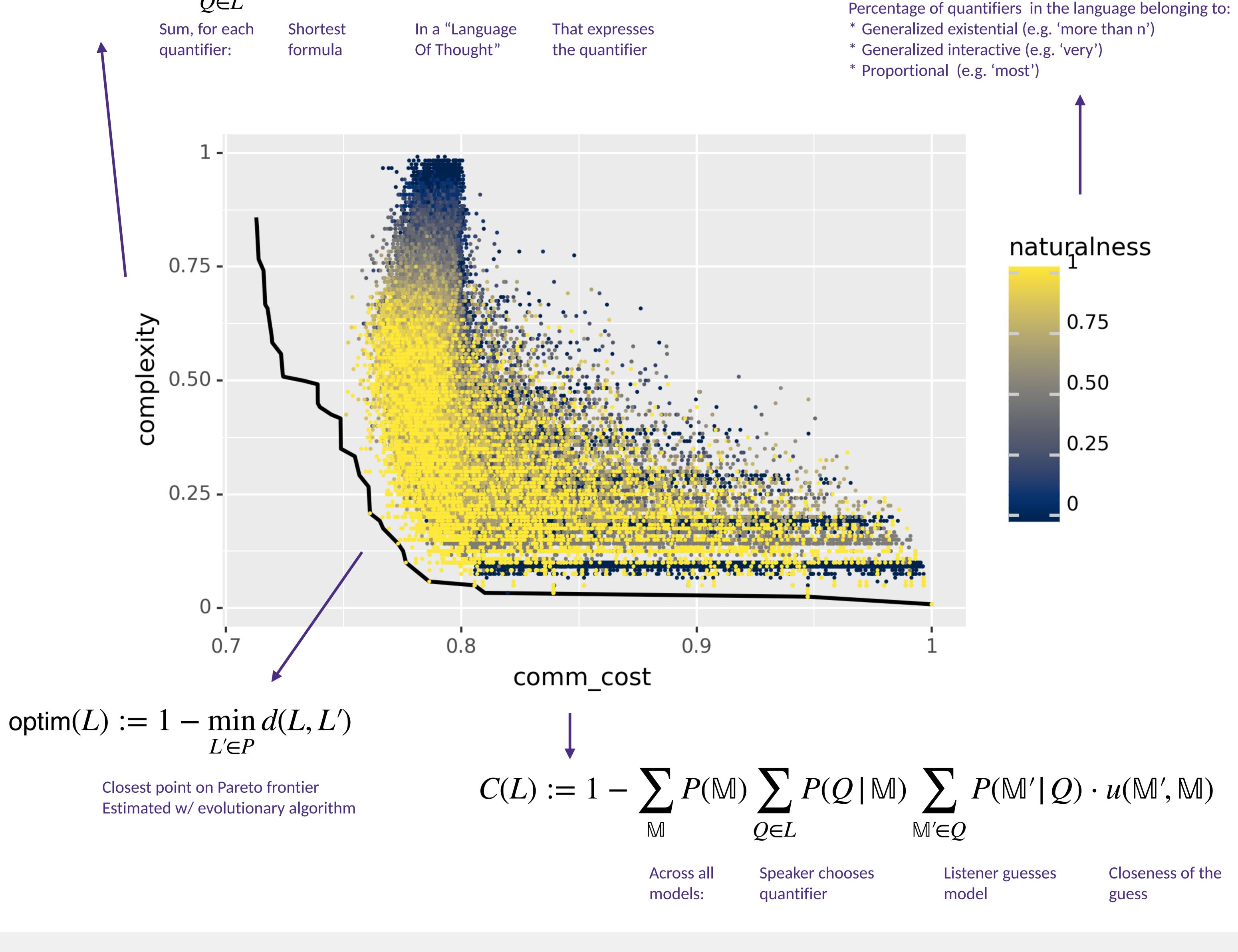
Quantifiers in natural language optimize the

simplicity/informativeness

trade-off

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$$\operatorname{comp}(L) := \sum_{Q \in L} \min\{\operatorname{len}(\varphi) : \varphi \in \operatorname{LOT}, [\varphi] = Q\}$$



Naturalness significantly correlated with optimality

 $\beta = 0.30, t = 88.95, p \approx 0,95 \% CI : [0.293,0.307]$



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