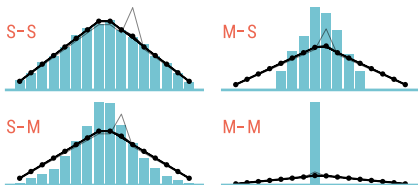
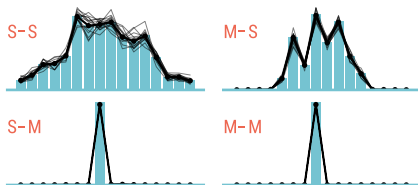


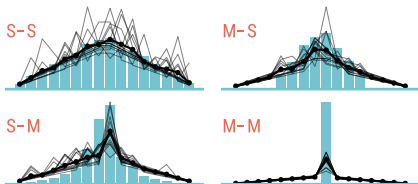
### A. Iterated learning ( $\gamma = 1$ )



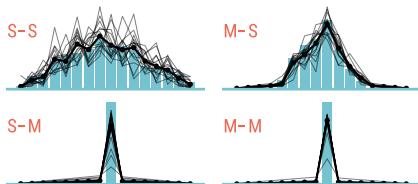
### B. Naming Game ( $\gamma = \infty$ )



### C. Quick turnover ( $\gamma = 10$ )



### D. Medium turnover ( $\gamma = 100$ )



—●— Aggregate language  $\bar{\pi}$     — Expected language  $\pi$     External language  $\psi$