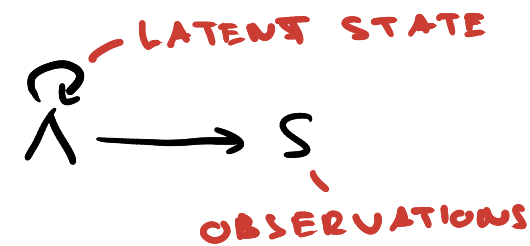


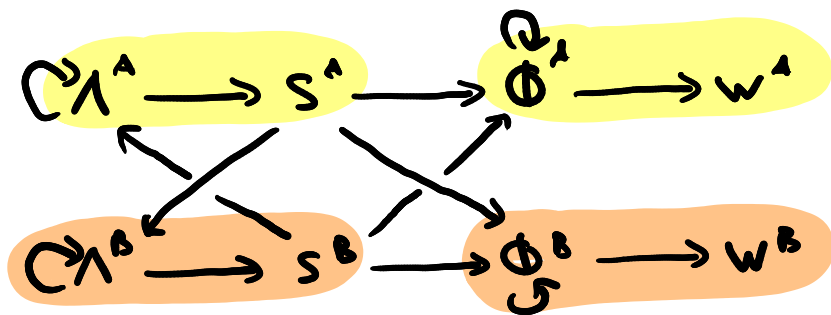
SPEAKER MODULE



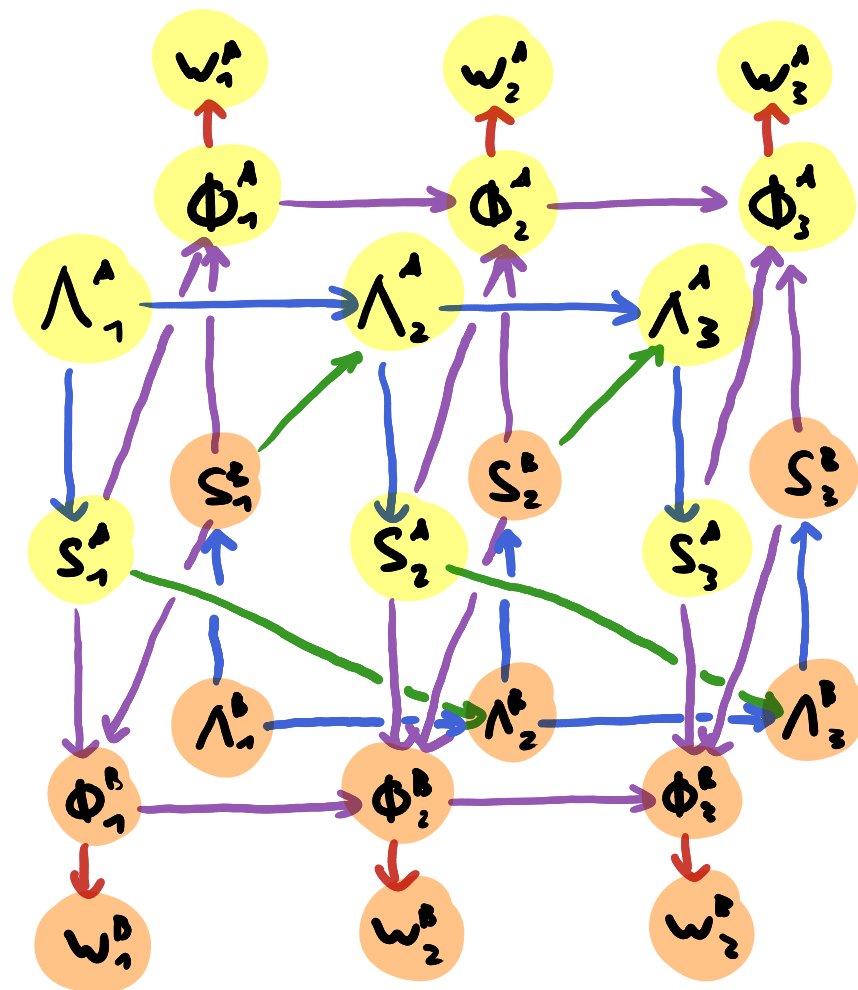
WRITER MODULE



CONVERSATIONAL  
SPEECH



$\Lambda, \Phi$ : UNOBSERVED INTERNAL STATES



A B

SPEAKER  
PERCEPTION

SPEAKER  
PRODUCTION

ANNOTATOR  
PERCEPTION

ANNOTATOR  
PRODUCTION

