ACL Specification
$myACL \in wff(\mathcal{L}_{cSpec})$
A, inform $(P) \rightarrow$ A has expressed belief that P
Semantics of Specification
$[\![-]\!]_{cSpec}$
$[\![myACL]\!]_{cSpec} = [\![-]\!]_c$
Initial Observable Social State
$o^i \in \Omega$
ACL Message
$m \in wff(\mathcal{L}_c)$
Joe, inform(it is raining)
Message Semantics
$[\![-]\!]_c : wff(\mathcal{L}_c) \rightarrow (\Omega \rightarrow \Omega)$
$[\![m]\!]_c = social$
Social State Change Function
$social : \Omega \rightarrow \Omega$
$social(o^i) = o^{i+1}$
Resultant Social State
$o^{i+1} \in \Omega$
Joe has expressed belief that it is raining