

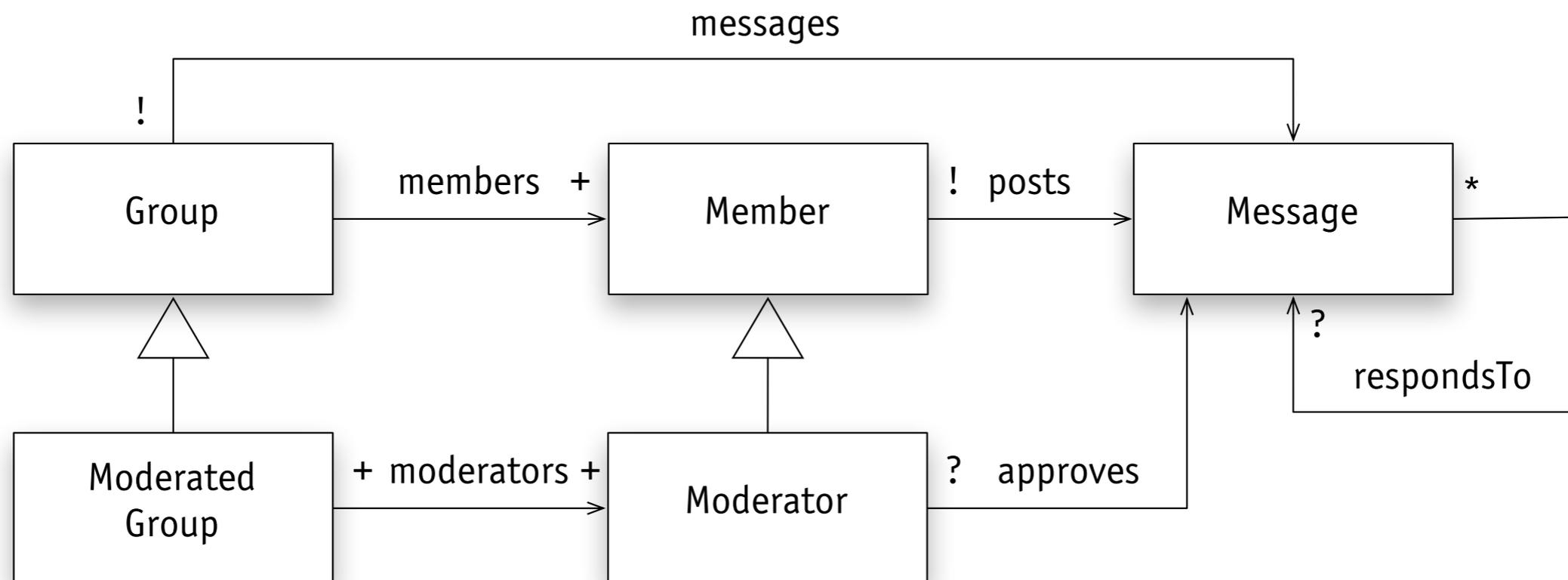
software studio

**object models:
semantics**

Daniel Jackson

an object model

- › for discussion groups
- › what does it denote?



object model semantics

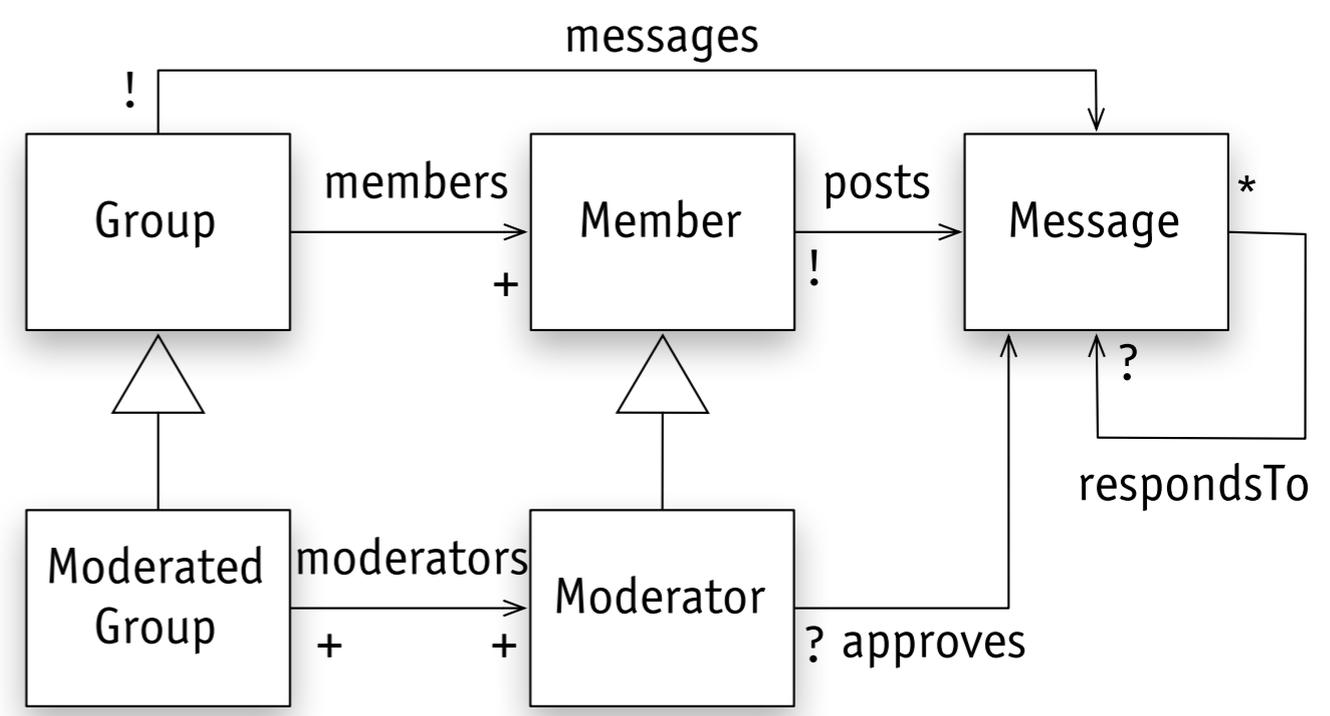
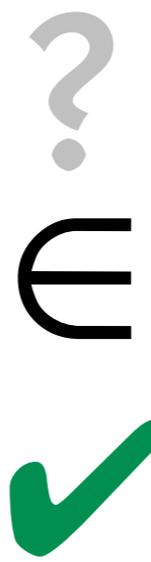
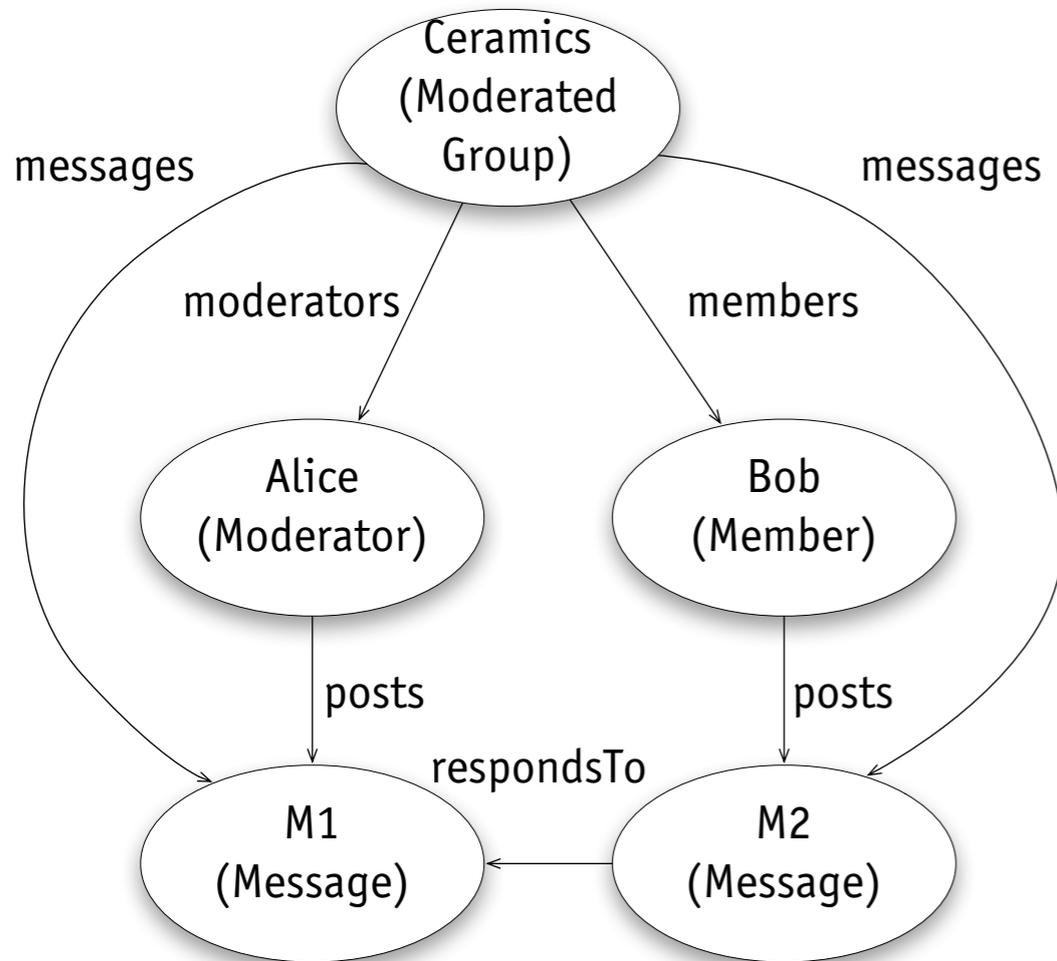
meaning = set of instances

- › an instance is an object diagram

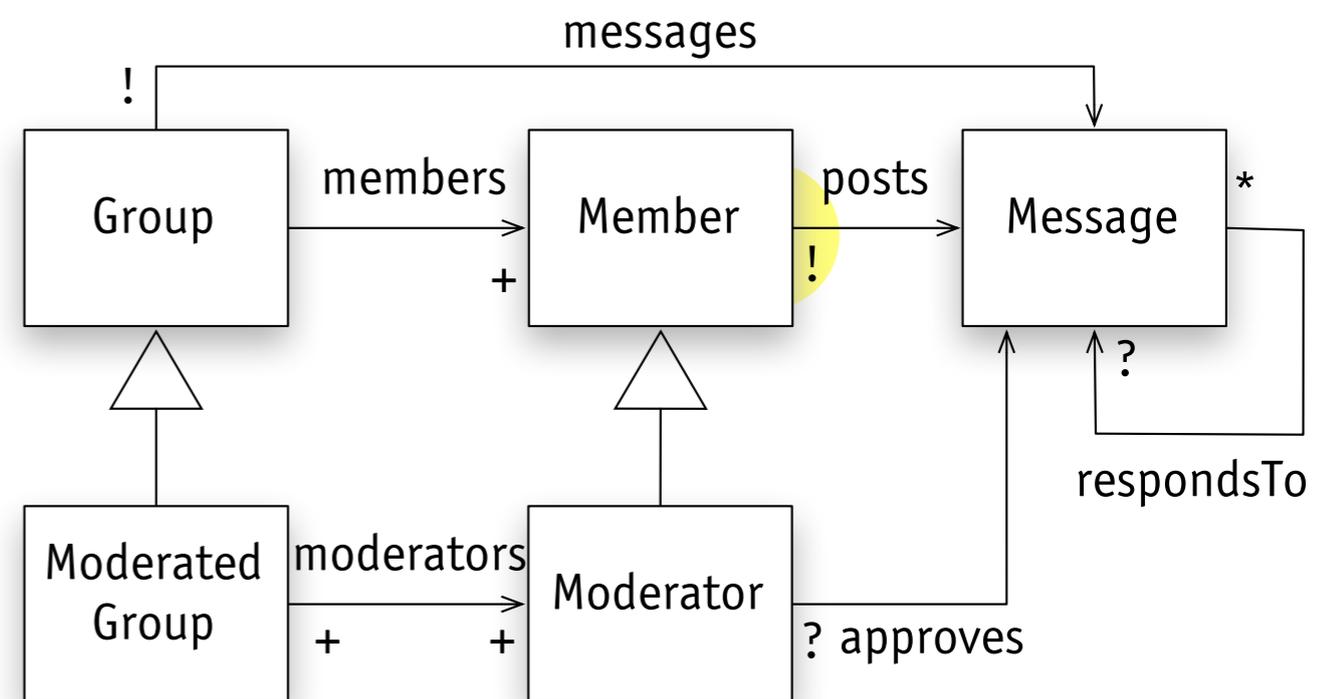
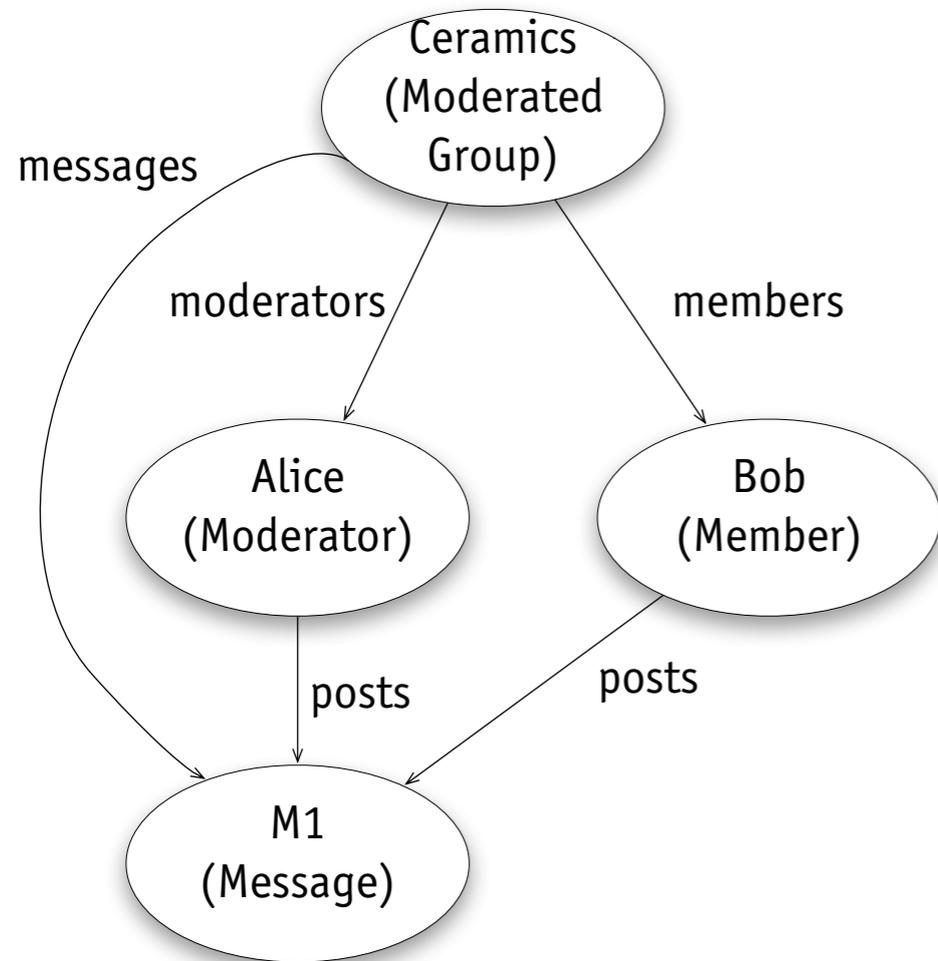
non-instances

- › violate some rule in the object model

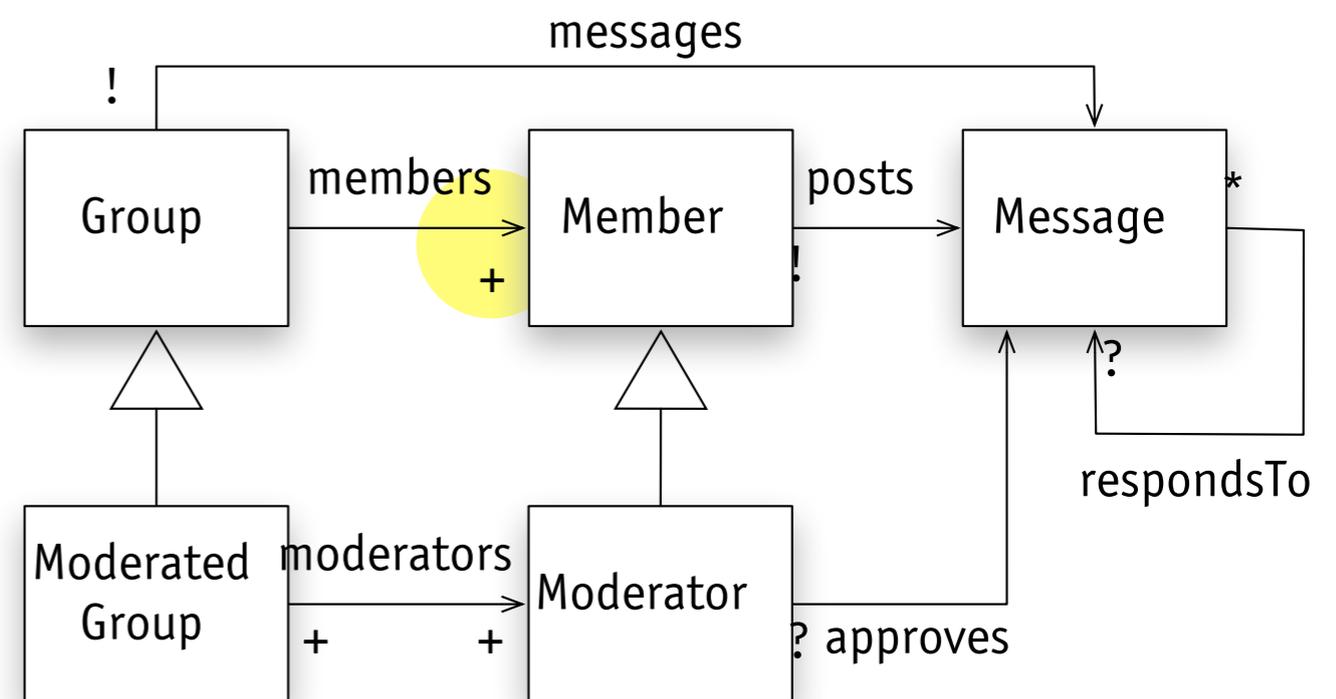
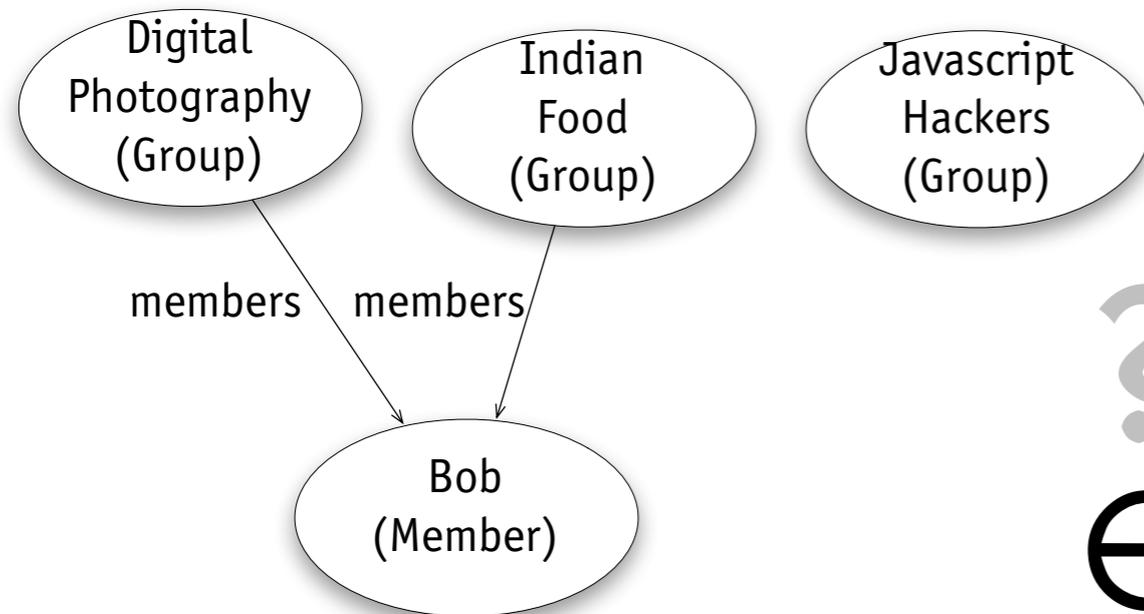
semantics examples



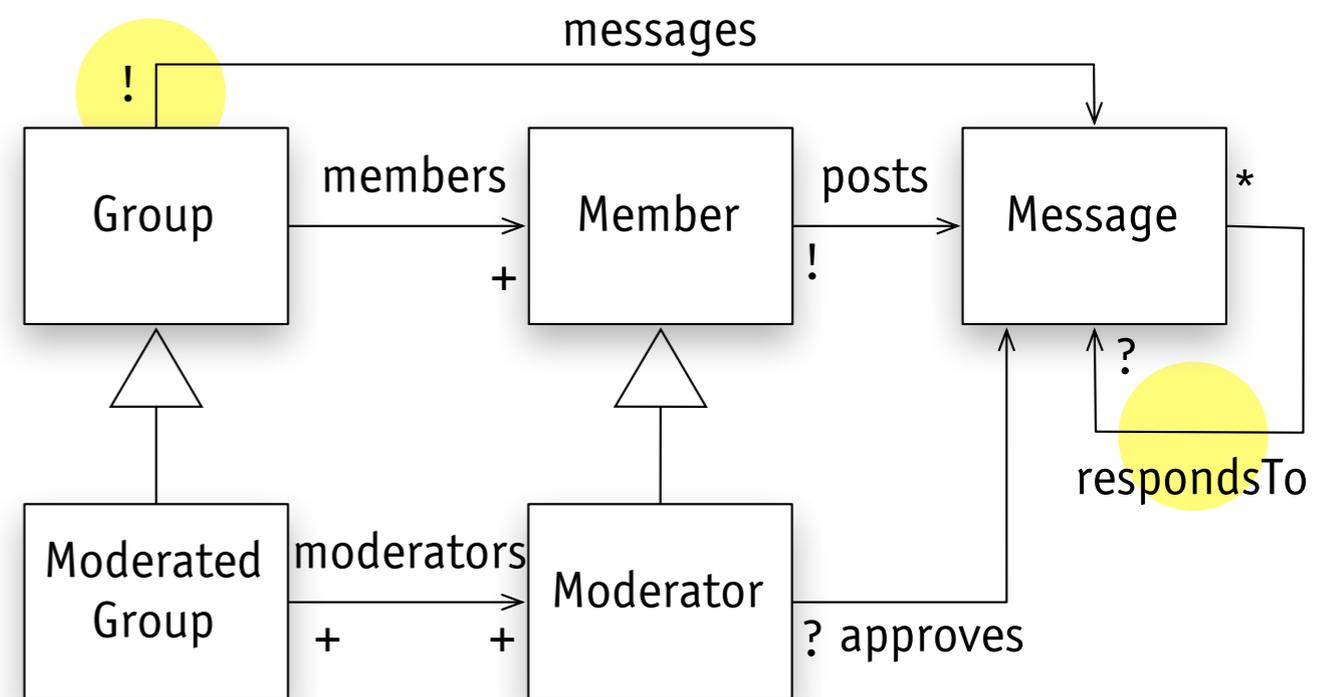
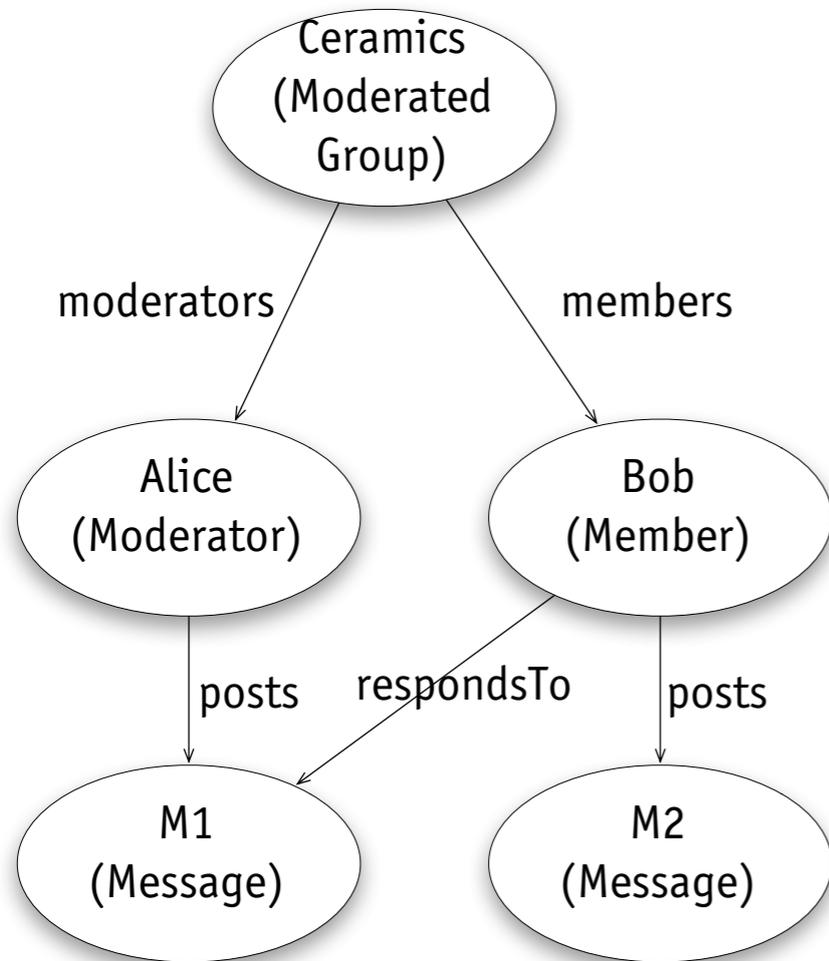
semantics examples



semantics examples



semantics examples



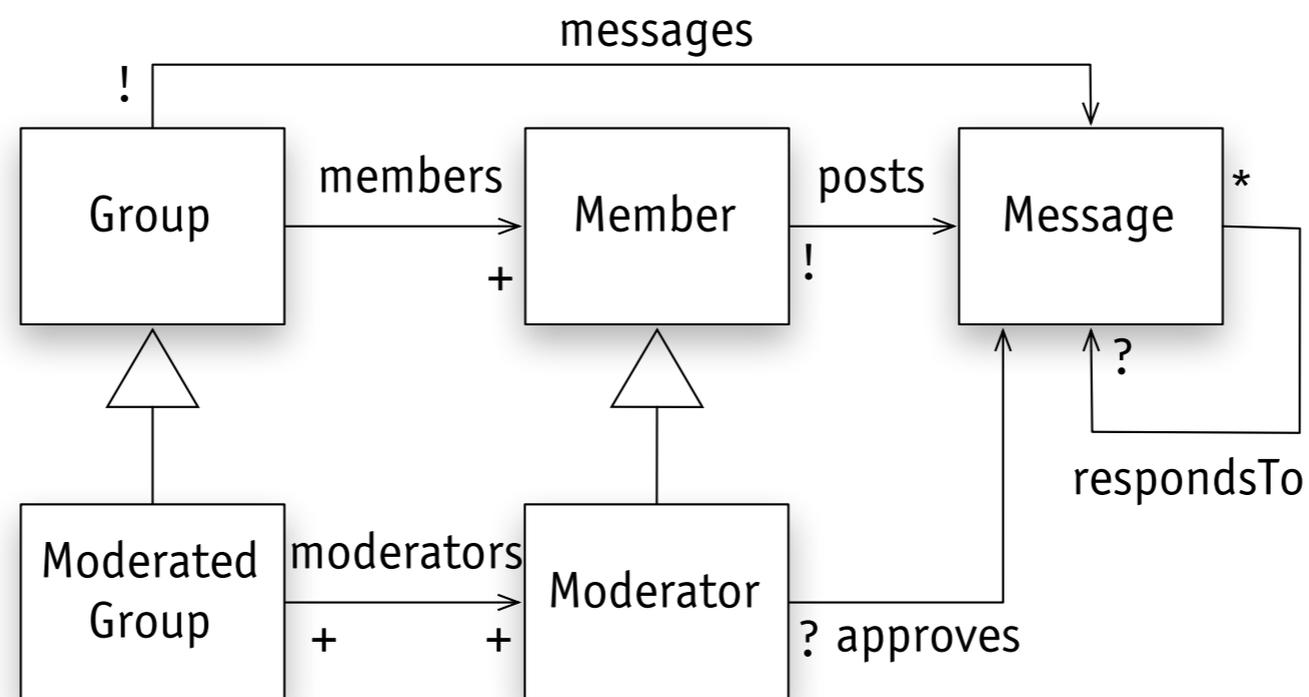
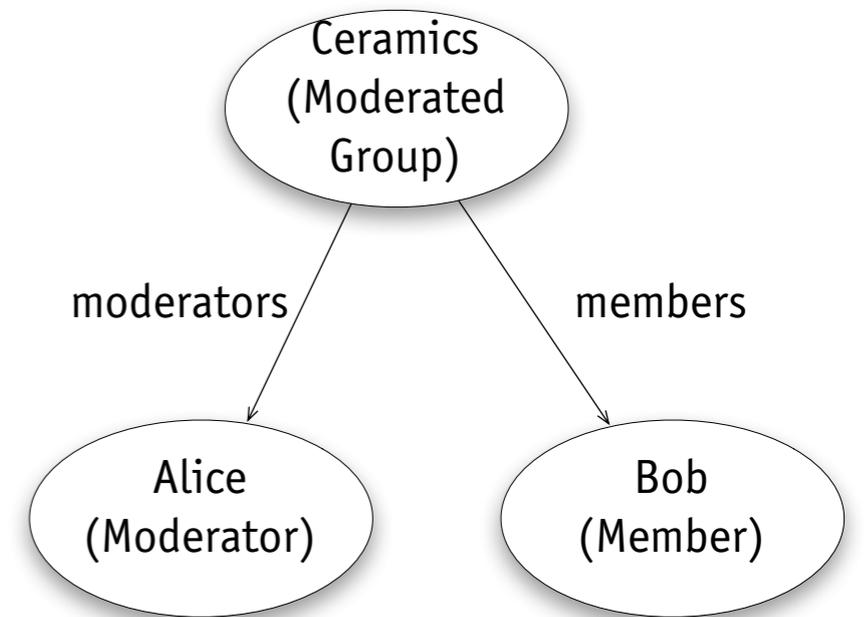
graphical limitations

consider this instance

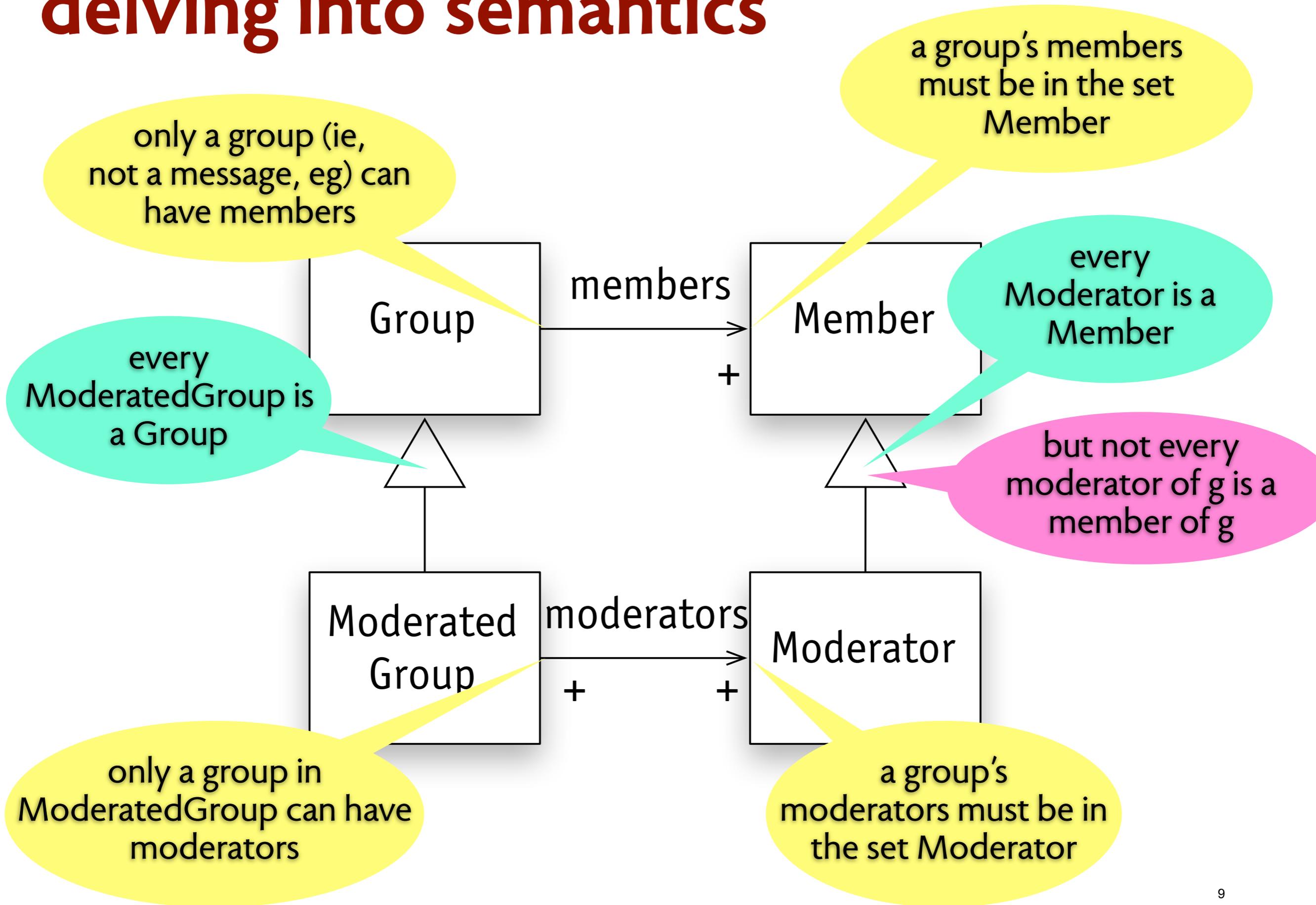
- › Alice is not a member of Ceramics

can we say moderators should be members?

- › not in this graphical notation

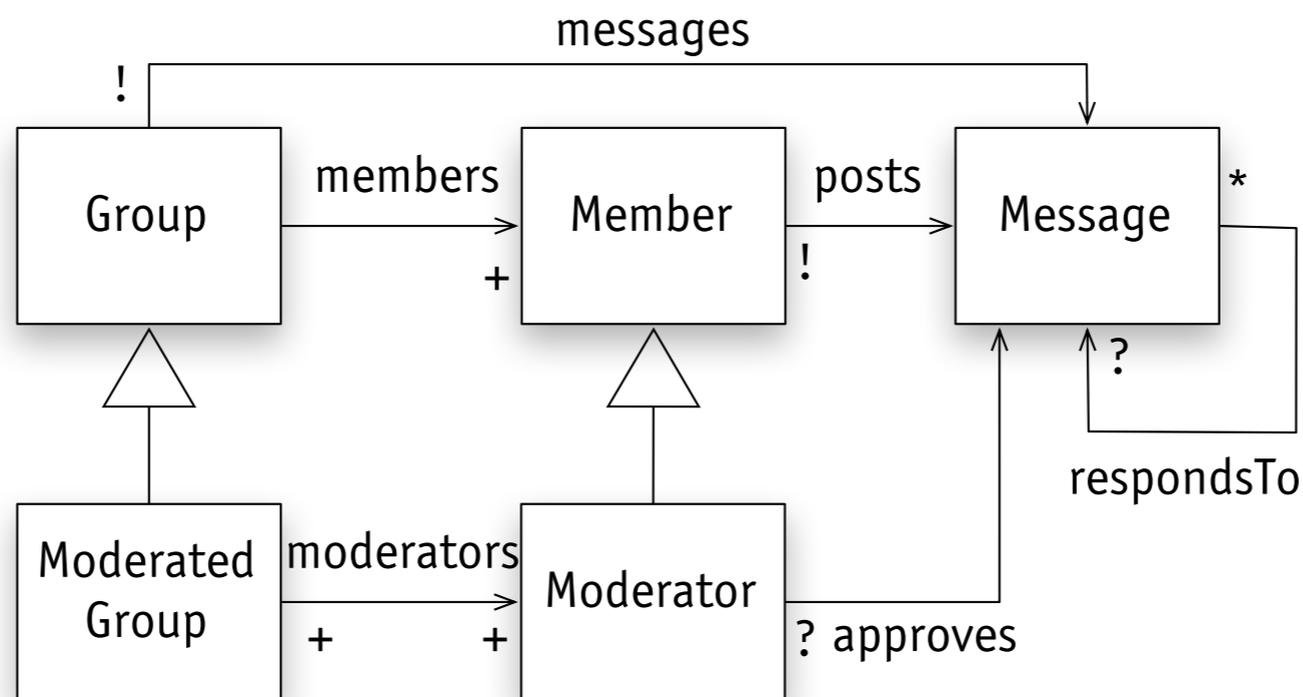


delving into semantics



textual constraints

- › moderators must be members of the group
- › member only posts message in group she belongs to
- › moderators approve messages in groups they moderate
- › message only responds to message in same group



in this course, just informal text; more advanced: express in Alloy

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6.170 Software Studio
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