object models of state

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OMs can describe almost anything

may not be detectable

may not be finite

may describe past & future
models of state

our purpose here: models of state
› what does the system remember?
› what is detected and recorded?

some common problems
› including operations as well as states
› inadequacy: not enough state to support operations
› lack of generalization
› implementation details
mistake: including operations

a bad smell
› using verbs, especially in present tense

bad:

User reads Post
writes

better:

User ! author Post
think about each feature
- is there enough state to answer each query?
- to decide which actions are allowed?

**bad:**

Moderator → Post

**better:**

Moderator → Post

Moderator → Pending

Moderator

Post

Pending
mistake: lack of generalization

are two sets really subsets of a common set?
› look for duplication of relations

bad:

better:
mistake: implementation details

beware of
› collection objects: replace by relation?
› singleton objects: replace by set?
› status: replace by subsets?

bad:

better: