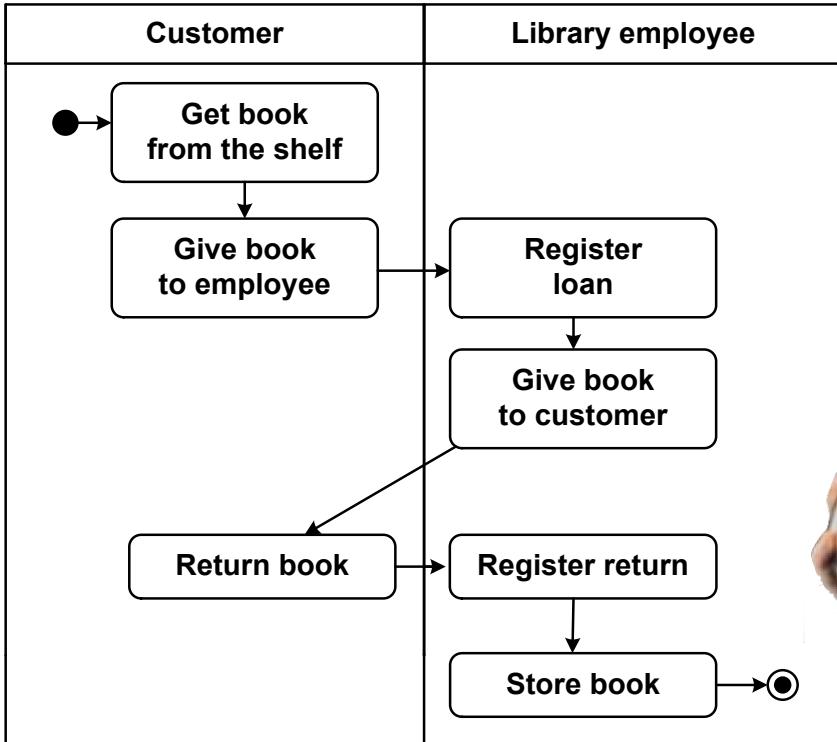


Behavioural Modelling: State Machine Diagrams

Software Systems – Design – L4T3

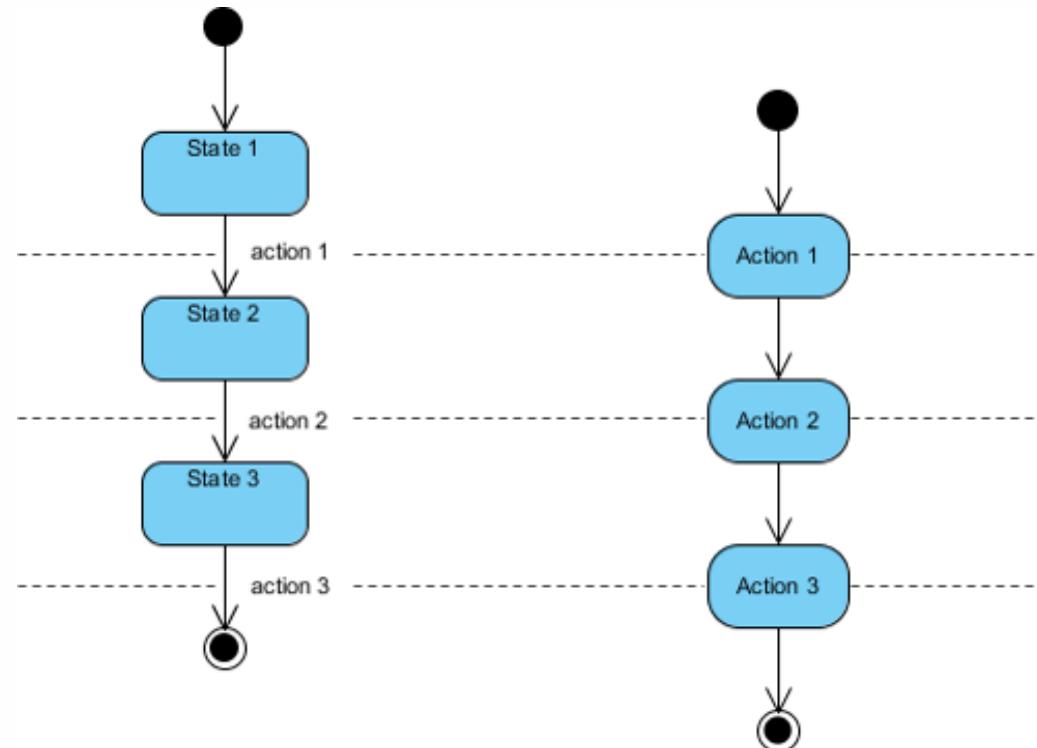
Dr. Vadim Zaytsev aka @grammarware, November 2020

Activity Diagrams

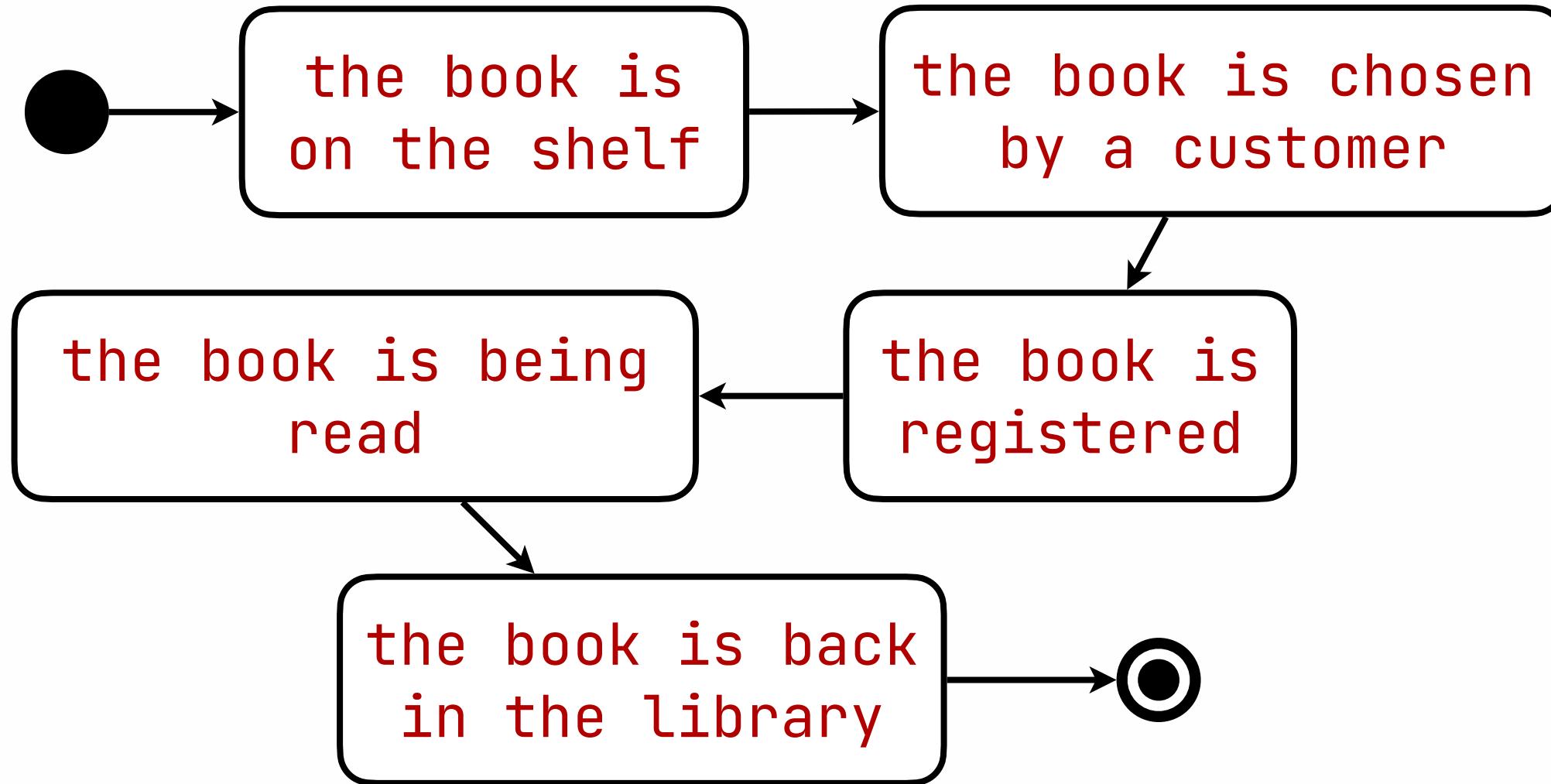


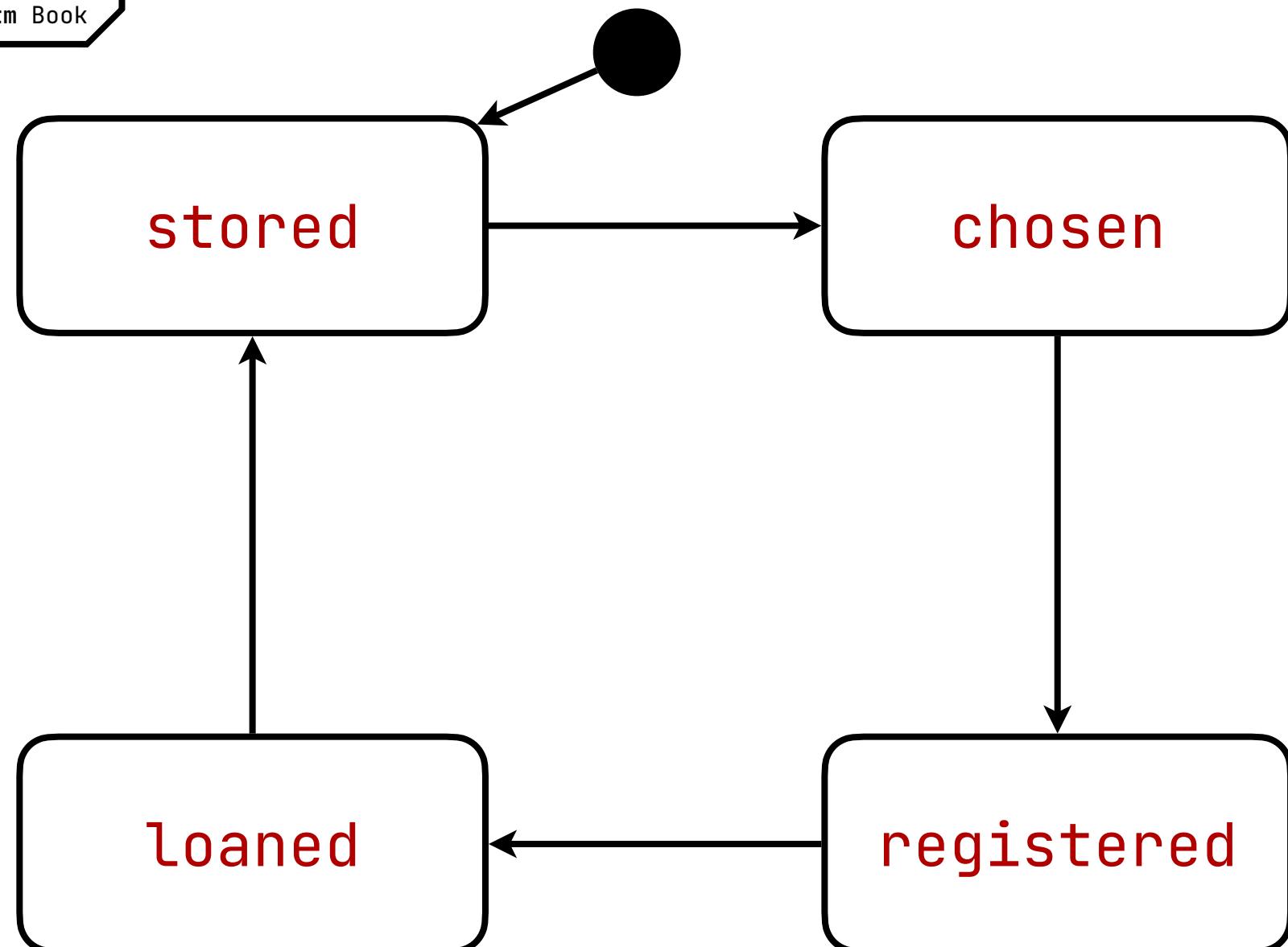
What if ...

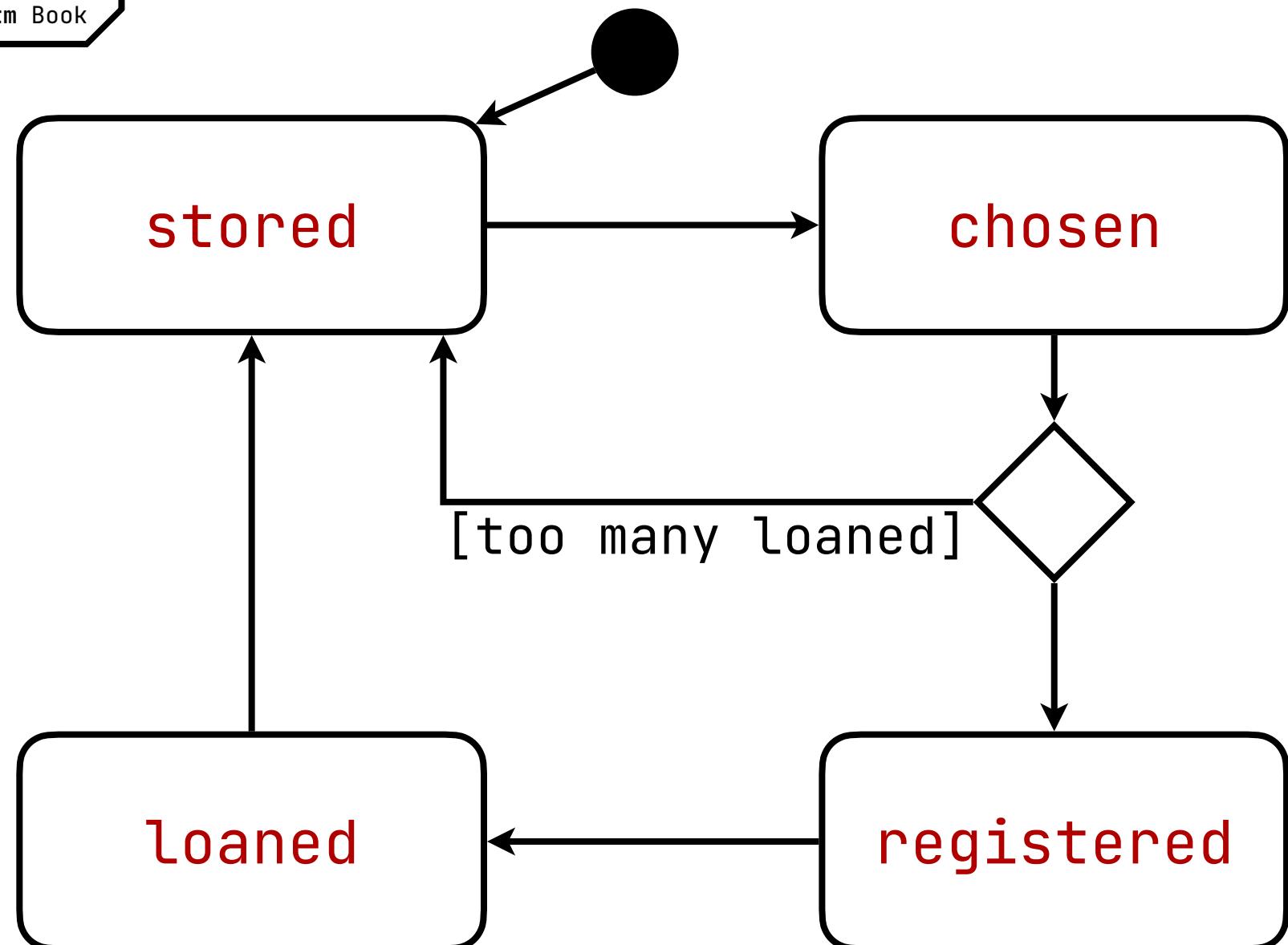
- ...we focus on **states** instead of **actions**?
- ...we focus on what is **inside** the system?



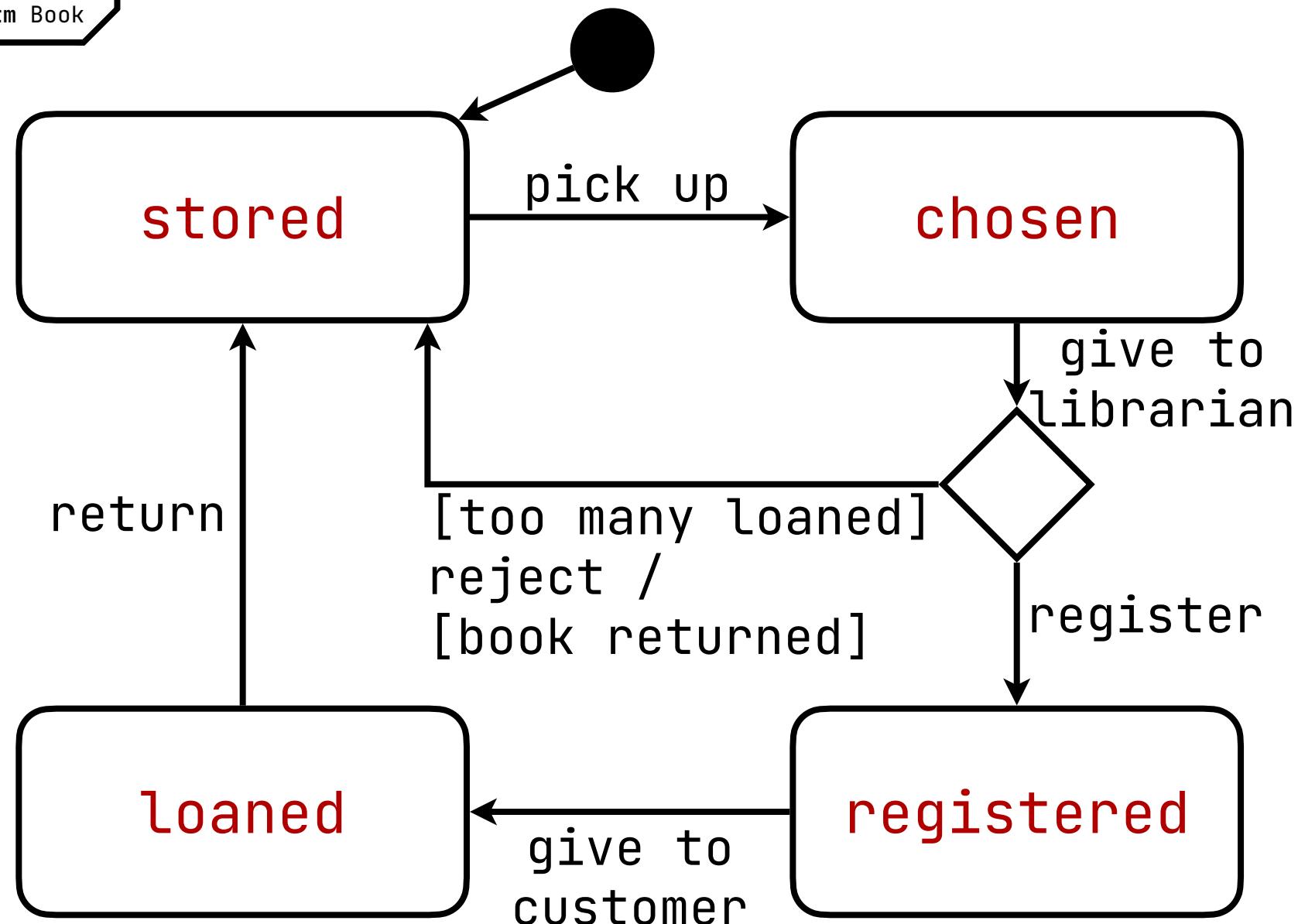
The Library Activity as a SMD

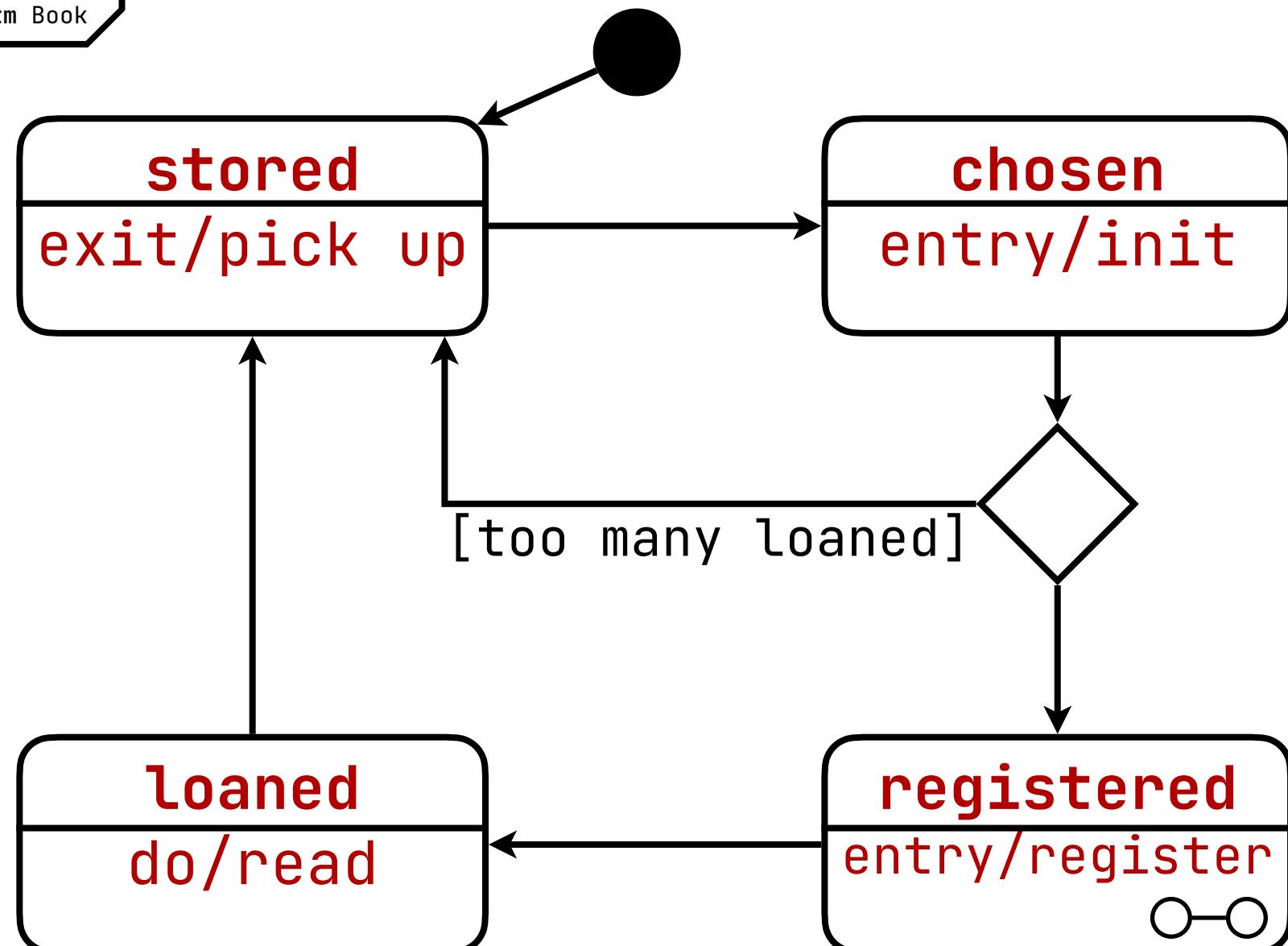






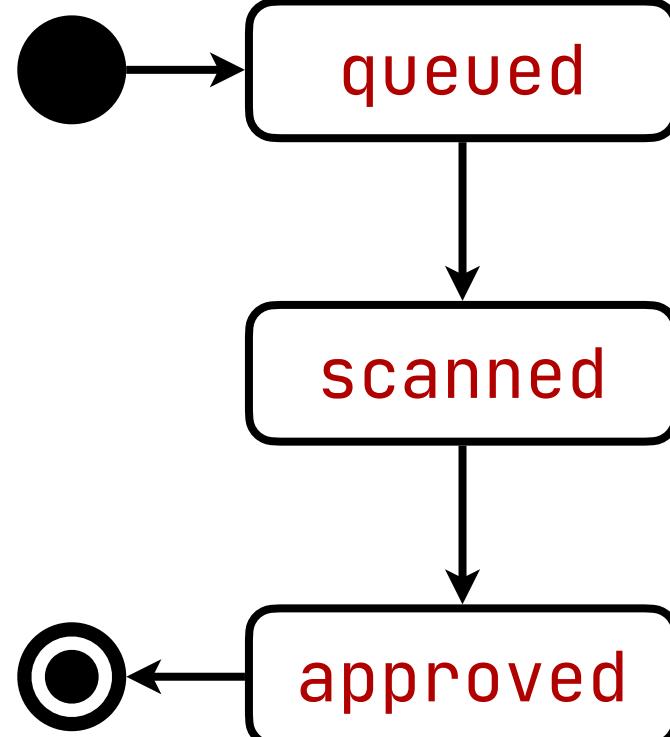
stm Book

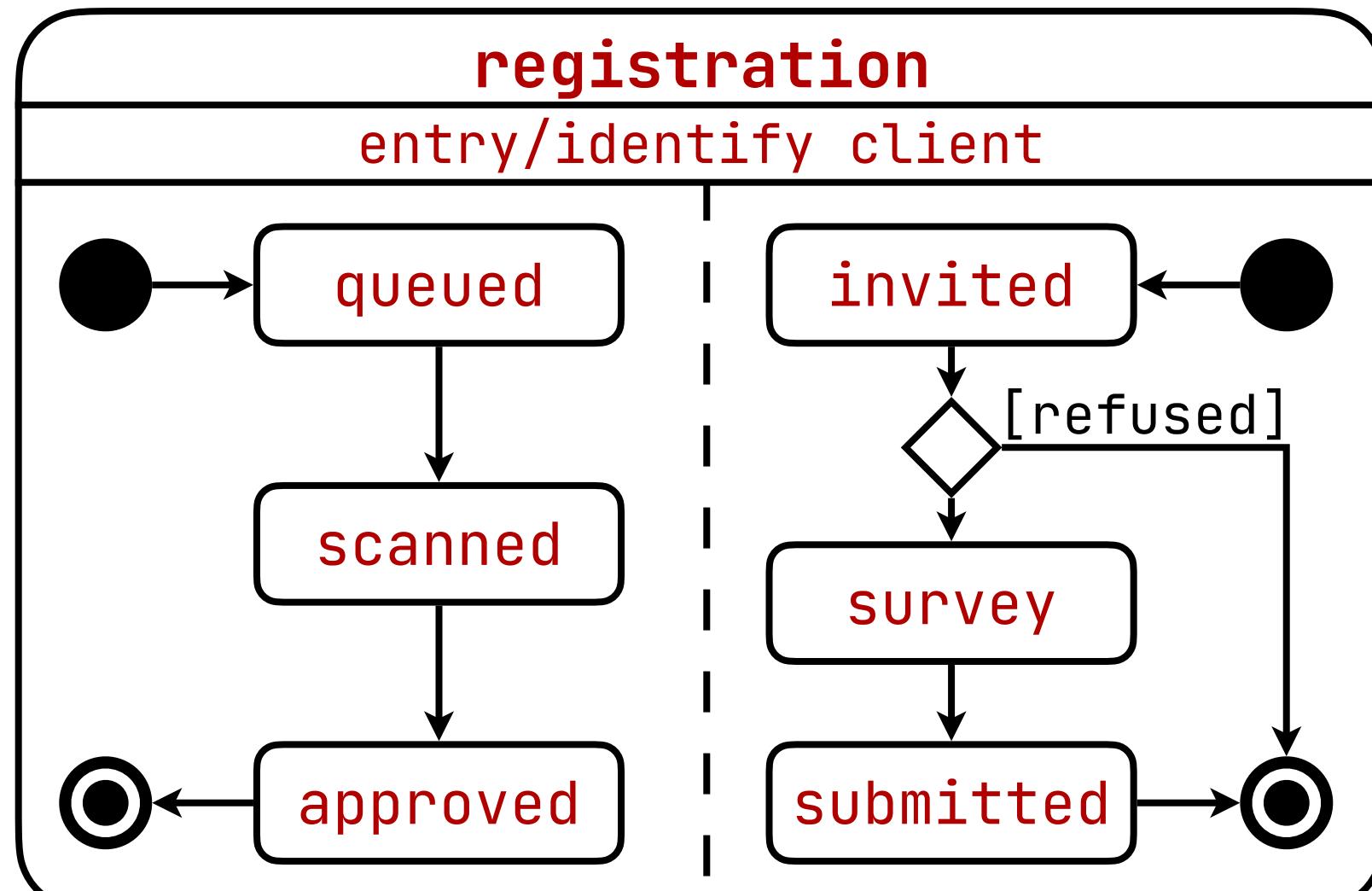




registration

entry/identify client





Conclusion

- State Machine Diagram aka Statechart
- Splits the behaviour into states
 - model real world (married, unmarried, divorced, widowed)
- Transitions move from state to state
- Pseudo-states: start, stop, choice
- Internal activities: exit, enter, do
- Composite states have substates
 - can have parallel compartments

Topics/slides Disclaimer

- Good ✓

- watch before Q&A
- embrace reality
- try out at labs
- ask for feedback
- apply to project
- dig deeper
- recall from slides

- Bad ✗

- slides over videos
- assumptions
- blanks
- timing

