







### **Model State**

- Online Bookstore (without backtracking)
  - When using the back-button, usually the items shouldn't be removed from the cart; just resume browsing from the old location.
- >> Flight Reservation System (with backtracking)
  - When using the back-button, usually you want to check other flight prices, this means the selected flight should be removed.

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# **Backtracking State**

- >> Seaside doesn't backtrack state by default.
- ☼ Often it isn't obvious, whether an object should be backtracked or not. Mostly this has to be decided by the developer on a per-object basis.
- Any object can be registered within a Session to be backtracked.

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# **State Holder**

- > Wrap your object into a WAStateHolder.
- Write accessor methods to access your object.

modelHolder := WAStateHolder new contents: model; yourself.

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### **Example**

### SomeComponent>>initialize

super initialize. modelHolder := WAStateHolder new.

### SomeComponent>>model

^ modelHolder contents.

### SomeComponent>>model: aModel

modelHolder contents: aModel.

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# **Register Object**

- Register your object within the current session for backtracking.
- This will backtrack the instance-variables of your object, not the object itself.
- When replacing the object with a new instance you have to re-register.

self session

register Object For Backtracking: model.

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## **Example**

### SomeComponent>>initialize

super initialize. self session

registerObjectForBacktracking: self.

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### **Summary**

Seaside handels the backtracking transparently, by registering objects within the session.

Developers have to decide depending on the requirements, if backtracking is needed.

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# **Further Reading**

- ☆ Stéphane Ducasse, Adrian Lienhard, Lukas Renggli, Seaside – Multiple Control Flow Web Application Framework
  - ☆ 6.1 Backtracking State
- ☆ Lukas Renggli, Seaside Tutorial:

☼ Questions: 9 – 11☼ Exercises: 16, 29 – 31

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