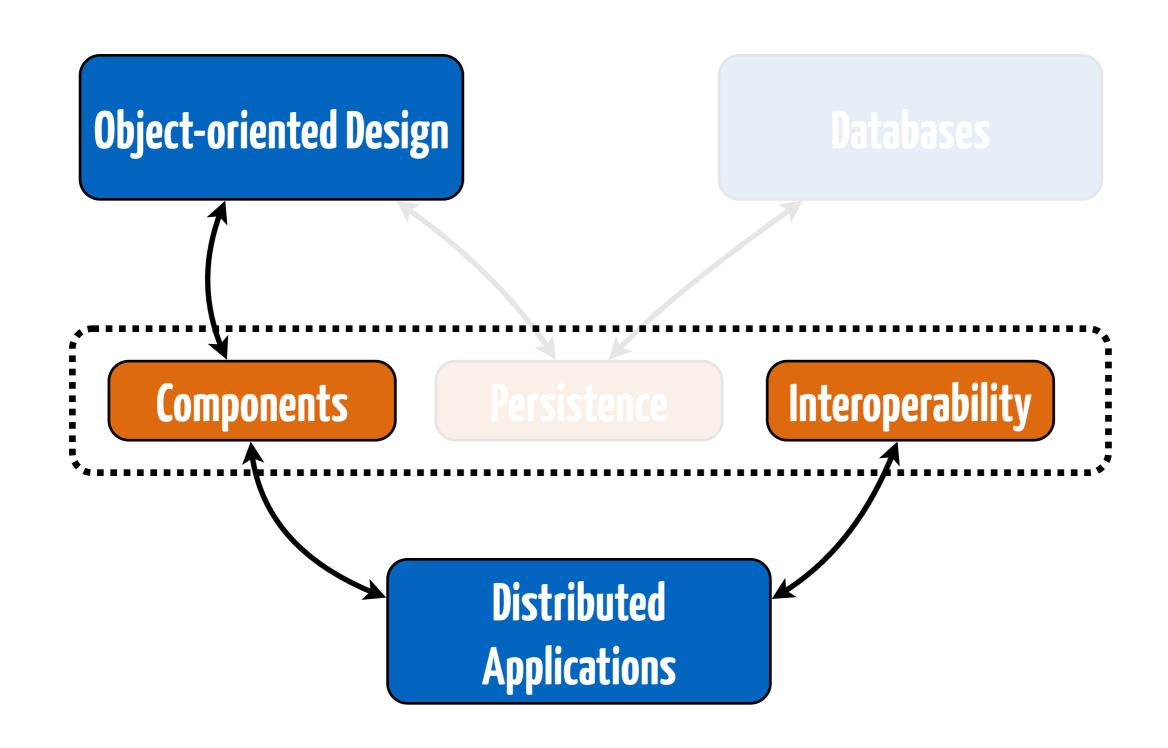
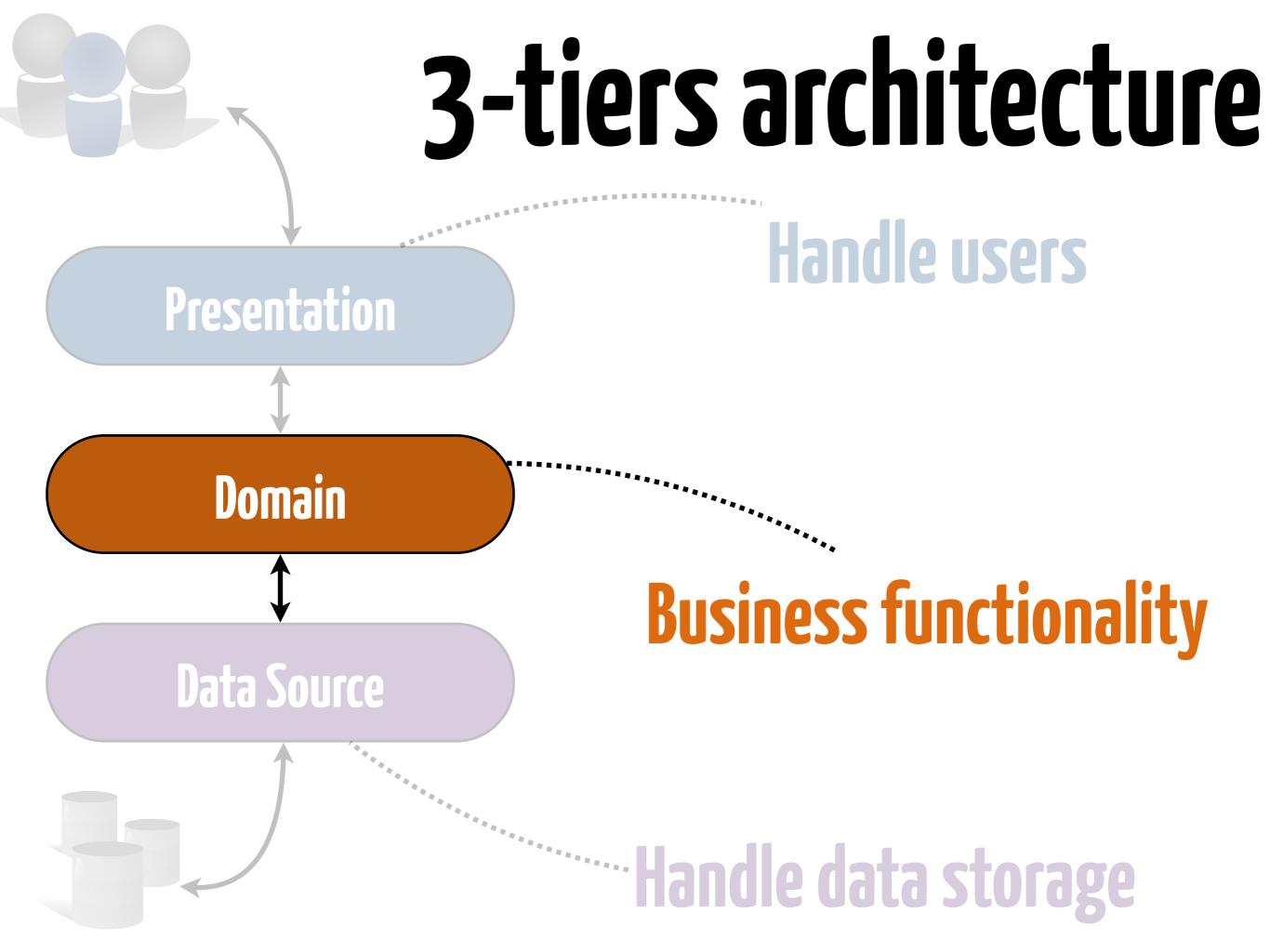


Session Beans

101

Applications Server: Dependencies

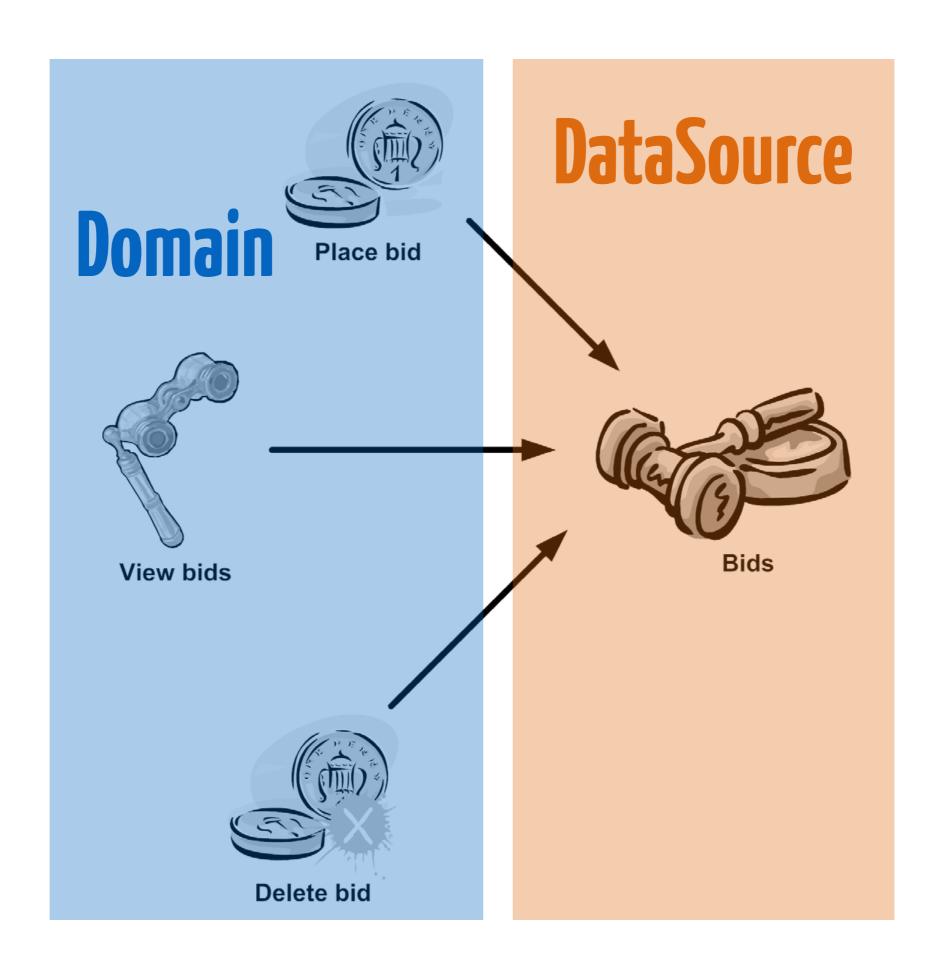




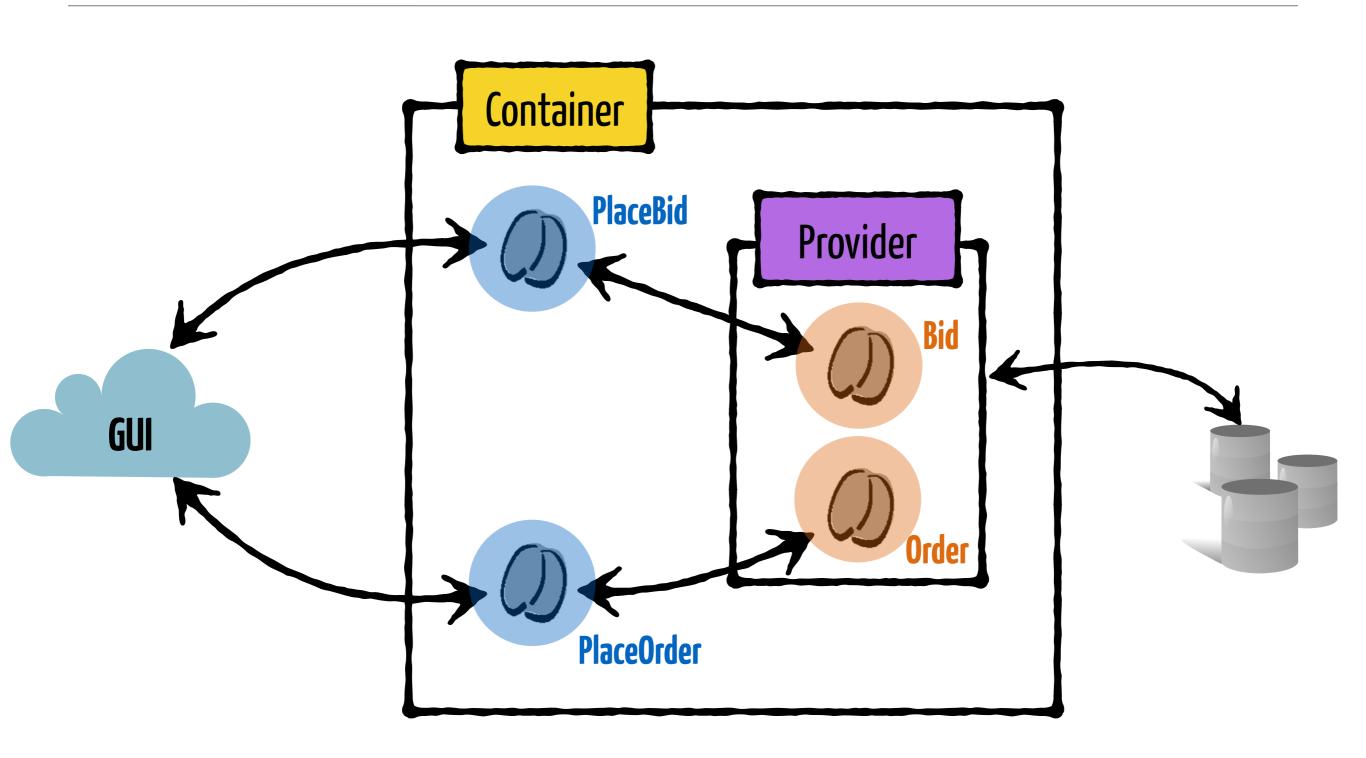
Rule of Thumb

Domain Bean interfaces as Verbs

DataSource Beans as Nouns

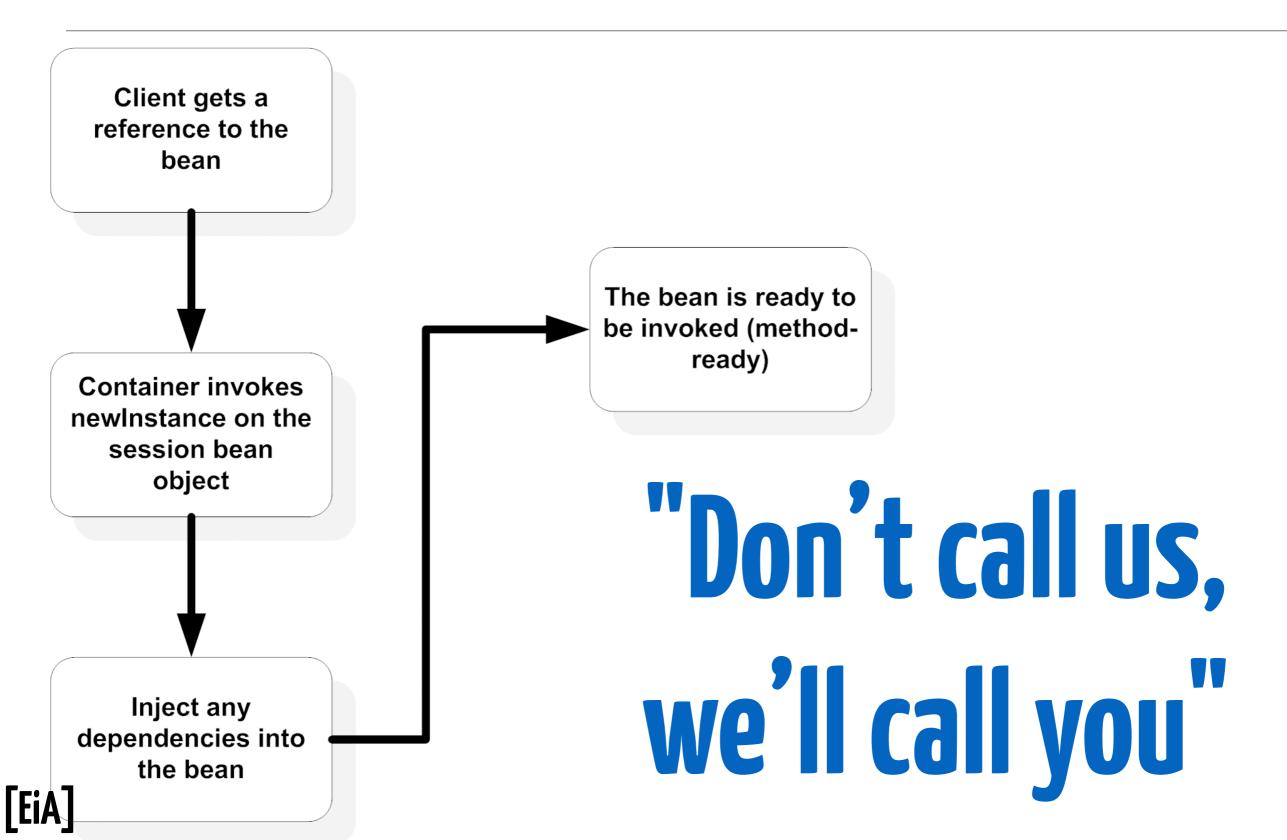


Client never calls a datasource directly

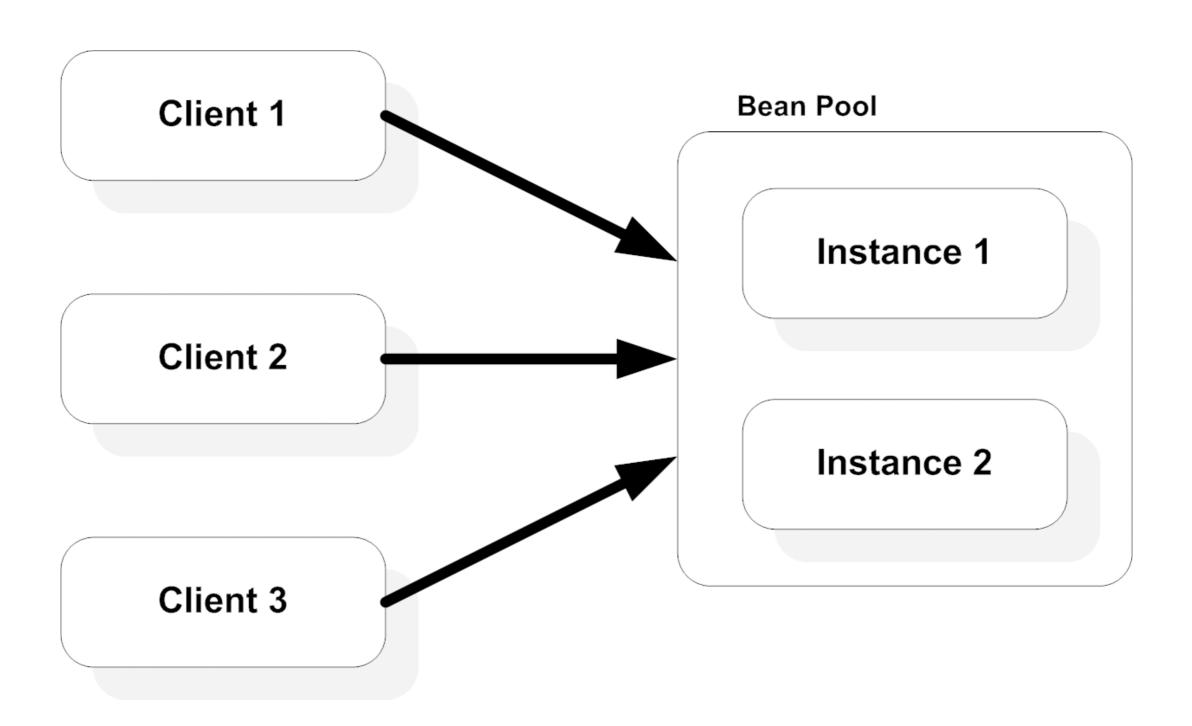


You'll **never** instantiate a domain bean.

EJB's Lifecycle: Inversion of Control

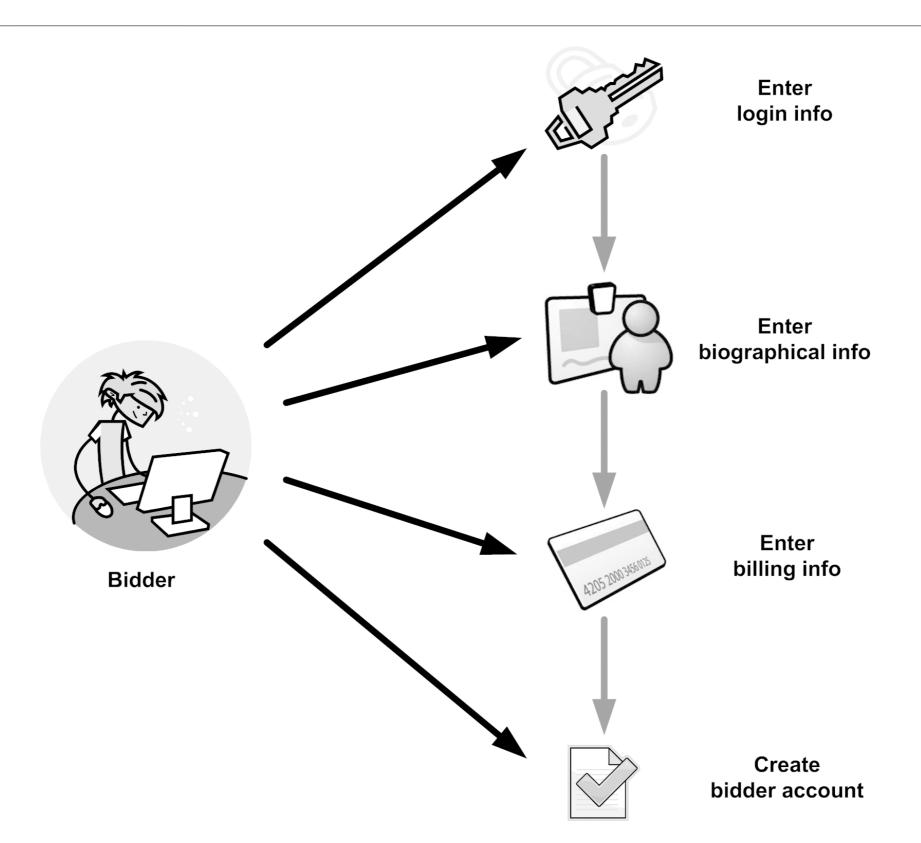


EJBs live in a "poo"





Domain beans live during a **Session**

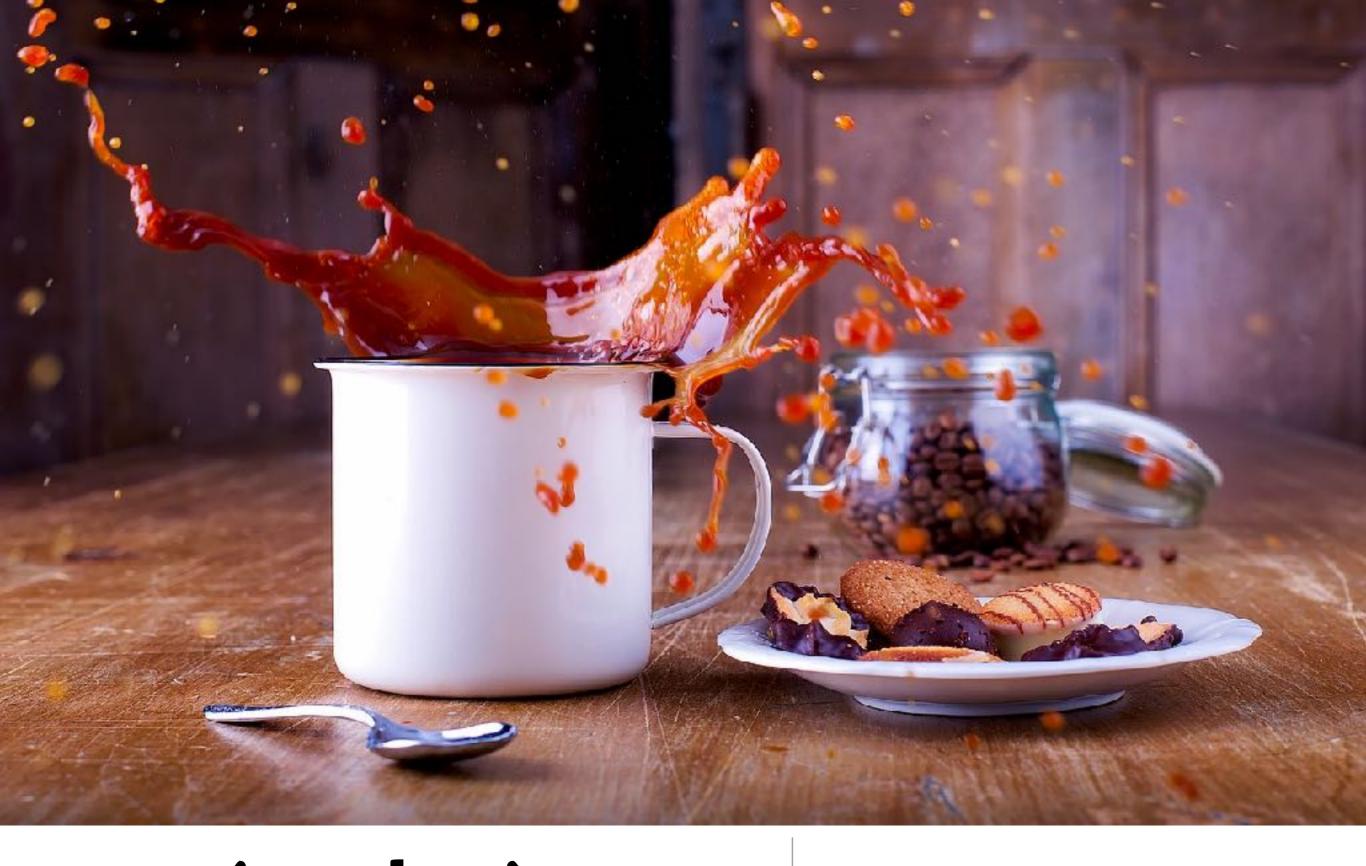




state ful/less beans

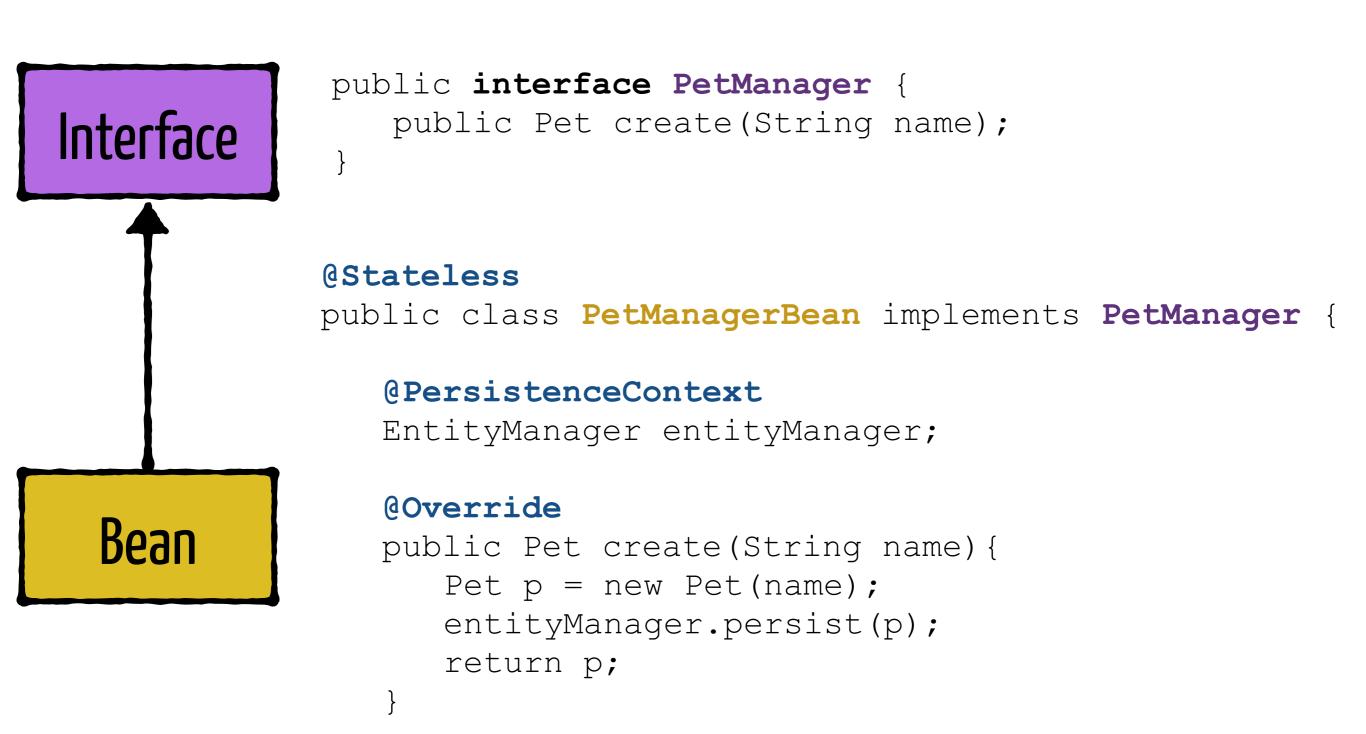
refer to the

conversational state during a session



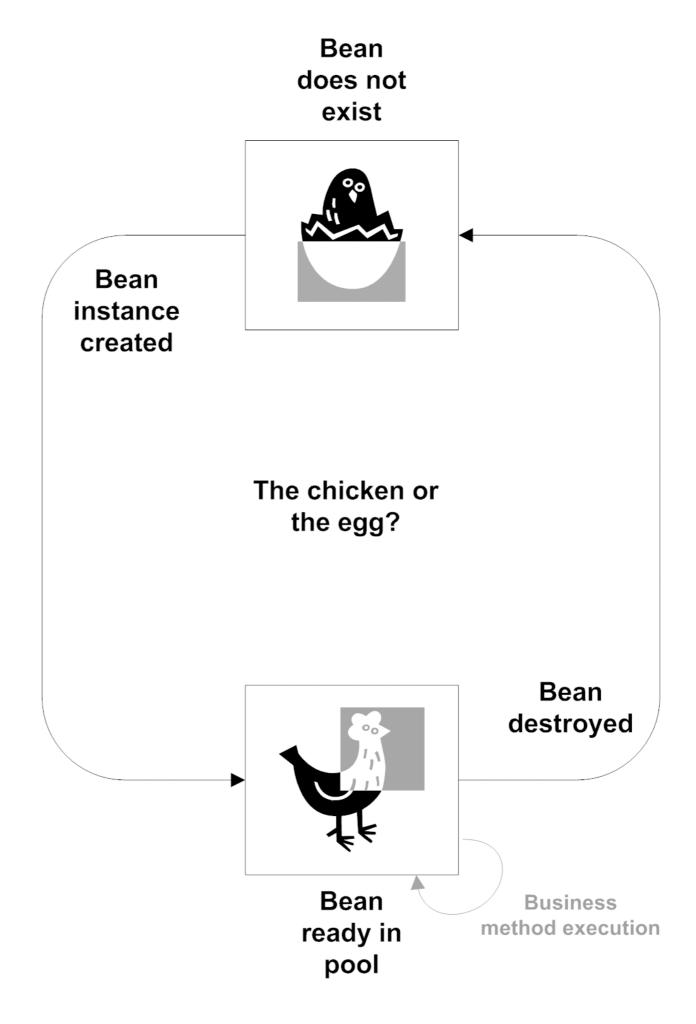
State(less ful) beans 101

Stateless beans: POJO + Annotations



Lifecycle

Handled by the container



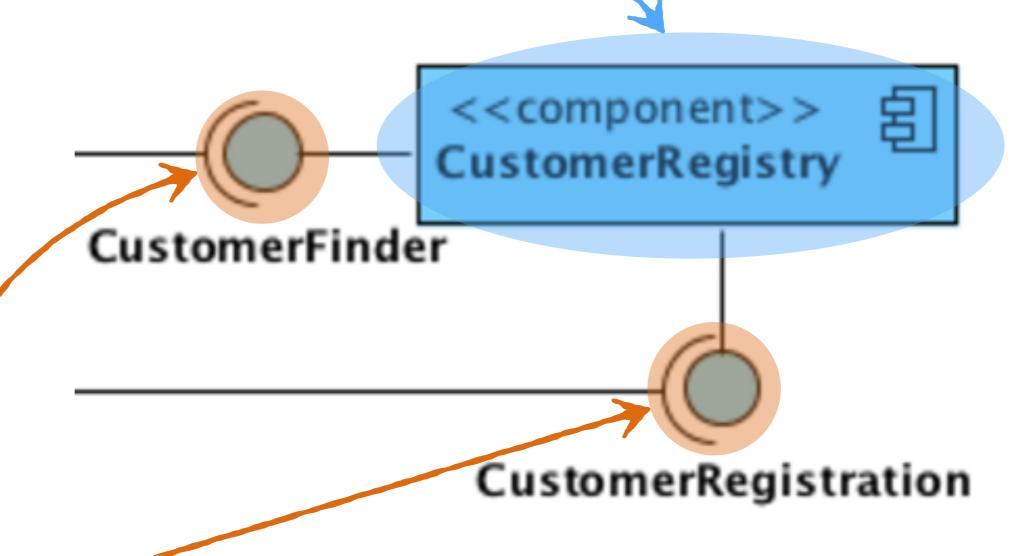


Consuming a Bean: Inversion of Control

```
PetManager manager;

@Test
public void testCreation() throws Exception {
   Pet jinx = manager.create("Jinx");
   assertEquals(jinx.name, "Jinx");
}
```

Stateless Bean-



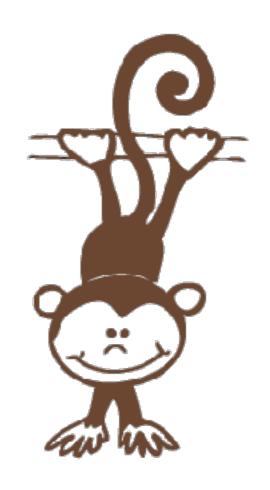
Interface

```
@Local
public interface CustomerFinder {
    Optional<Customer> findByName(String name);
                                          <<component>>
                                         CustomerRegistry
                            CustomerFinder
                                           CustomerRegistration
 @Local
 public interface CustomerRegistration {
     void register(String name, String creditCard)
             throws AlreadyExistingCustomerException;
```

```
@Stateless
public class CustomerRegistryBean
      implements CustomerRegistration, CustomerFinder {
   @EJB
                                Persistence mock
   private Database memory;
   ** Customer Registration implementation **
   @Override
   public void register(String name, String creditCard)
         throws AlreadyExistingCustomerException {
      if(findByName(name).isPresent())
         throw new AlreadyExistingCustomerException(name);
      memory.getCustomers().put(name, new Customer(name, creditCard));
   ** Customer Finder implementation **
   @Override
   public Optional<Customer> findByName(String name) {
      if (memory.getCustomers().containsKey(name))
         return Optional.of(memory.getCustomers().get(name));
      else
         return Optional.empty();
```

EJB are **standard**: Learn by **Example**!





monkey do

Want to learn more on state and beans?

https://github.com/collet/4A_ISA_TheCookieFactory/blob/develop/chapters/BusinessComponents.md

First

More on a specific course later...