

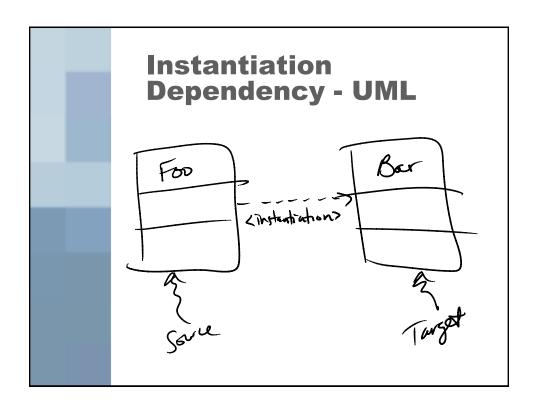
Local Variable Dependency - Code public class A & public A (B b = New B(); B b; b = New B();

Local Variable Dependency - Reason

-One object needs to create another

- Need a local variable to hild

the instance



Instantiation Dependency - Code

public class Foo &

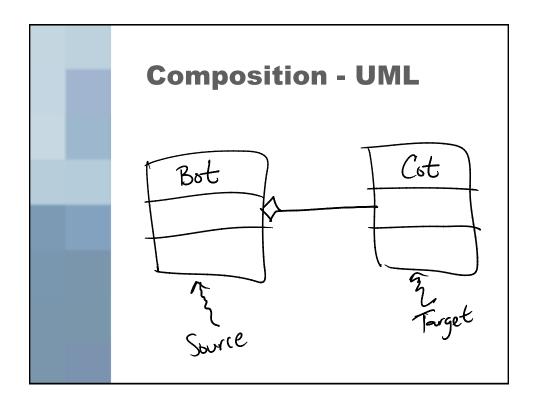
public Foo () &

new Bar();

Instantiation Dependency - Reason

-> Need to create an instance -> No local variable needed

* (reating listeners



Composition - Code public class Bot & private Cot -cot; public Bot (-cot = new Cot(); }

Composition - Reason

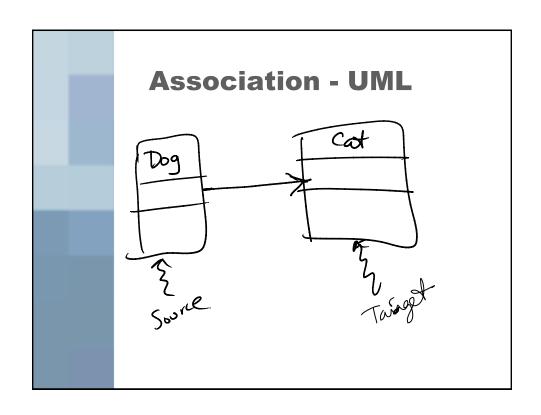
-> Need to create an instance

>> Need the instance variable

blc multiple methodo need to refer

to the same object

Laby: drawing canvas



public class Dog &

private Cat - pestycat;

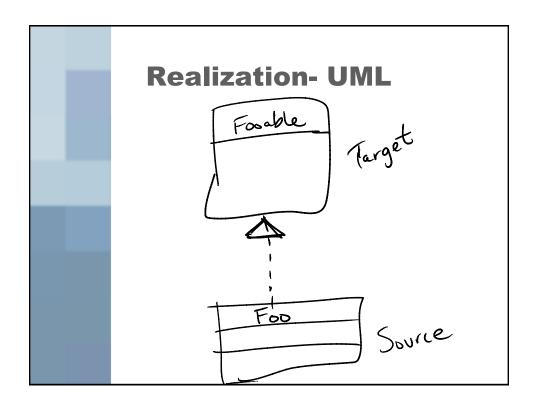
public Dog (Cat cat) &

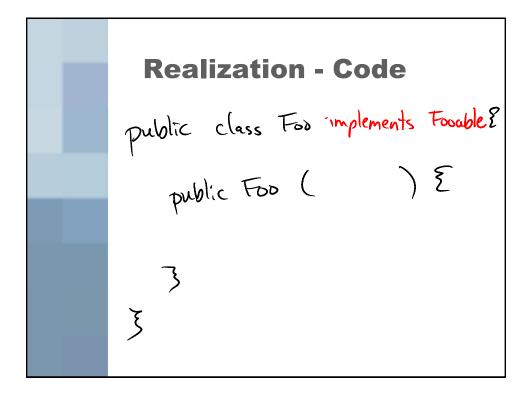
- pestyCat = cat;

3 3

Association - Reason

7 One object needs to communicate with another object that already exists in the System





Realization - Reason

(For now)

It's because the library told

me I had to

Last problem

 The steps to create a JButton that changes the color of the background of a drawing canvas to a random color.

Last problem

- Create new instance of a JButton
- Add an action listener to the JButton
- Add the button to the container that will put it on the JFrame

Last problem

- What does the action listener for the button do?
 - It changes the color of the drawing canvas

Last problem

- How do we accomplish that?
 - We need to be able to call setColor on the drawing canvas
 - But, we can not directly access the drawing canvas from the listener class
 - We need an association relationship between the listener and drawing canvas