not needed first

Car a = new Car();

Cappp Trunk();

Car. honk()

## STATIC VS NON-STATIC METHODS

- Also called "class methods"
- Invoked through the class name
- Don't need to have object instantiated
- Example: sqrt method in Math class

Math. sert (4);

## STATIC METHODS

- add static modifier in method declaration
- cannot access instance variables
- can reference static variables

private static int count = 0;

private String color; STATIC VARIABLES

public (ar () {

Other variable types:

- local variable: variables declared inside a method (disappear after method ends)
- instance variable: each instance of class has it's

own copy

private int day;

Static variable:

shared among all instances of the class

## STATIC VARIABLES

- use static modifier
- also called "class variables"
- changing it changes for all
- local variables cannot be static
- constants (declared with final are also often static)

## "THIS" REFERENCE

- this is a reference to object through which method was invoked
- often used when coonstructors have parameters with same name as instance variables

public Class Car &

private String color;

private int passerses;

public Car (String color, int passerses) &

public Car (String color, int passerses) &

public voit resize () &
pusseryers --;

Car C= new Car ("yellow", 4); Car d= new Car ("blach", 8); miles ((g'c); public void mysteri (Car C, Car d) { (or 9, = C;C. set Cobr (d. get Color ()); e. set Pesserses (7); d. set Passersers (3); Cor P = new (ar ("orange", a);
P = d D. 48t Color ("red");