The artist is the person who invents the means to bridge between biological inheritance and the environments created by technological innovation.”

- Marshall McLuhan
Extends

- Inherit all the variables, constants, and methods from another class
- Class header specifies that it extends another class
  - Examples:

```java
public class FancyButton extends JButton
public class AddressFields extends JPanel

public class Sprite
public class BadGuy extends Sprite
public class Player extends Sprite
public class Weapon extends Sprite

public class SchoolAddress extends AddressFields
public class HomeAddress extends AddressFields
```
Inheritance diagram
Inheritance Diagram and methods

Object

JPanel

AddressFields

HomeAddress

SchoolAddress

BillingAddress

layout manager

name (JLabel, JTextField) city (JLabel, JTextField)
street (JLabel, JTextField) state (JLabel, JTextField)
city (JLabel, JTextField) zip (JLabel, JTextField)
title border (Border)
post (JCheckBox)
packages (JCheckBox)
title border (Border)
start date (JLabel)
start date (JTextField)
end date (JLabel)
end date (JTextField)
title border (Border)
post (JCheckBox)
packages (JCheckBox)
import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;

public class HomeAddress extends AddressFields{
    Border titled; JCheckBox post, pkg;
    public HomeAddress(){
        setLayout( new GridLayout( 6,2 ) );
        init();
    }
    public void init(){
        titled = new TitledBorder( "Home Address" );
        setBorder( titled );
        setupMailOptions();
    }
    public void setupMailOptions(){
        post = new JCheckBox( "Post" );
        pkg = new JCheckBox( "Packages" );
        add( post );
        add( pkg );
    }
}

import java.awt.*;
import javax.swing.*;
public class AddressTest extends JApplet{
    HomeAddress home;
    SchoolAddress school;
    BillingAddress billing;
    public void init(){
        setLayout( new GridLayout( 1, 3 ) );
        home = new HomeAddress();
        school = new SchoolAddress();
        billing = new BillingAddress();
        add( home );
        add( school );
        add( billing );
    }
}
Summary

- Inheritance
- AddressFields example