

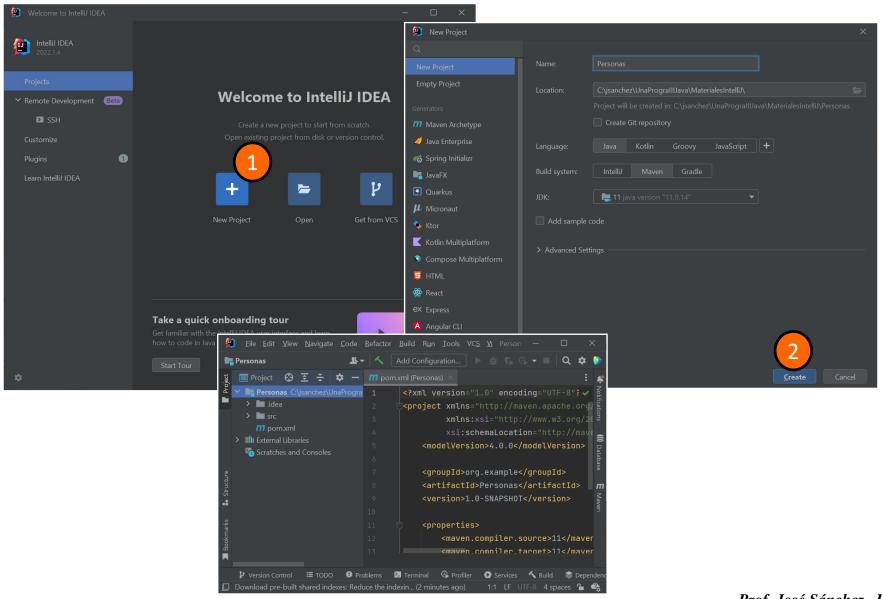
# EIF206 - Programación 3 3 - Interfaces de Usuario

(Prof. José Sánchez, Ph.D.)

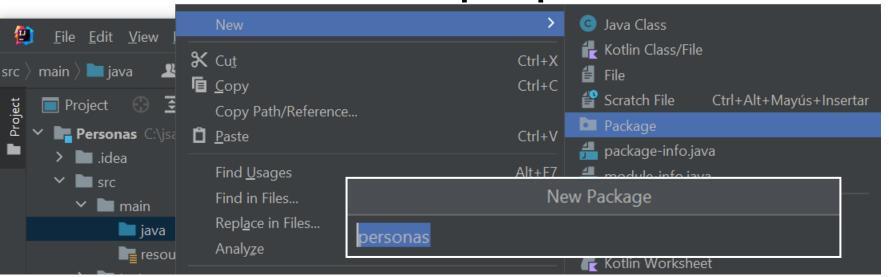
## Creación y Diseño de Formularios

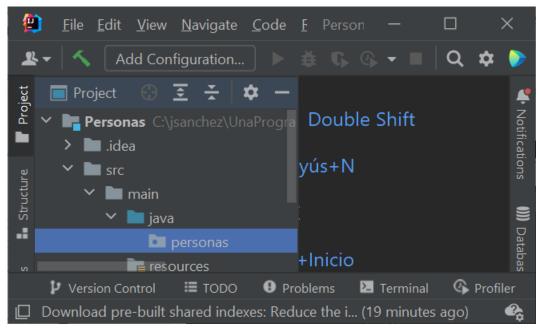
- •Para crear formularios complejos es usual usar un IDE, como IntelliJ.
- •IDE: Integrated Development Environment
- •El editor de pantallas del IDE permite "arrastrar-y-soltar" (drag-and-drop) los componentes que formarán la interface de Usuario (Panel o pantalla)
- •El IDE va generando "automáticamente" el código de la clase que forma la interface de usuario.

## IntelliJ: Creando un Proyecto

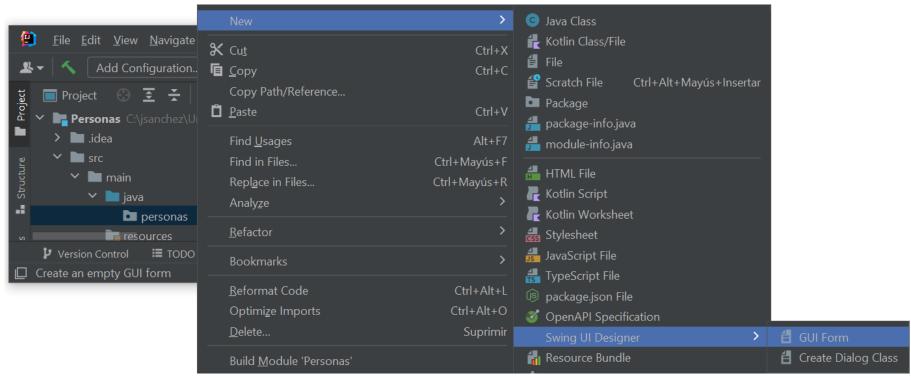


### Creando paquetes



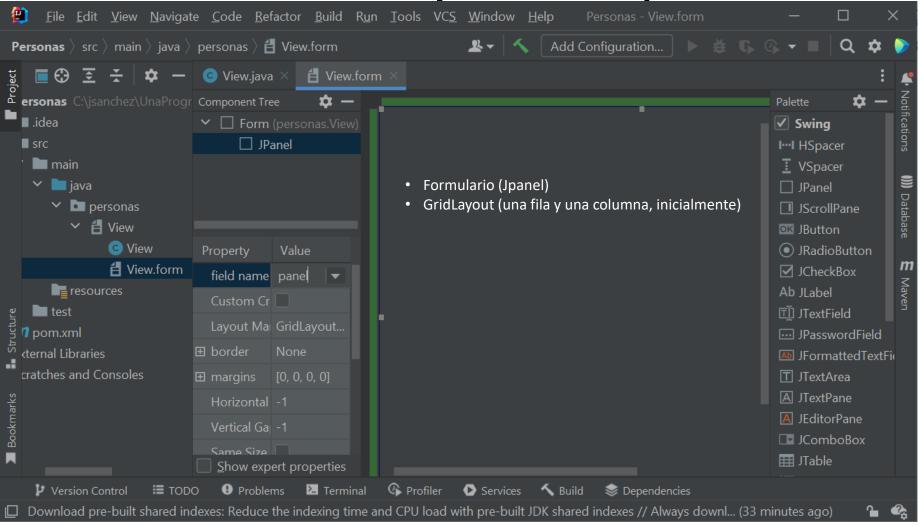


#### Creando Formulario (GUI)

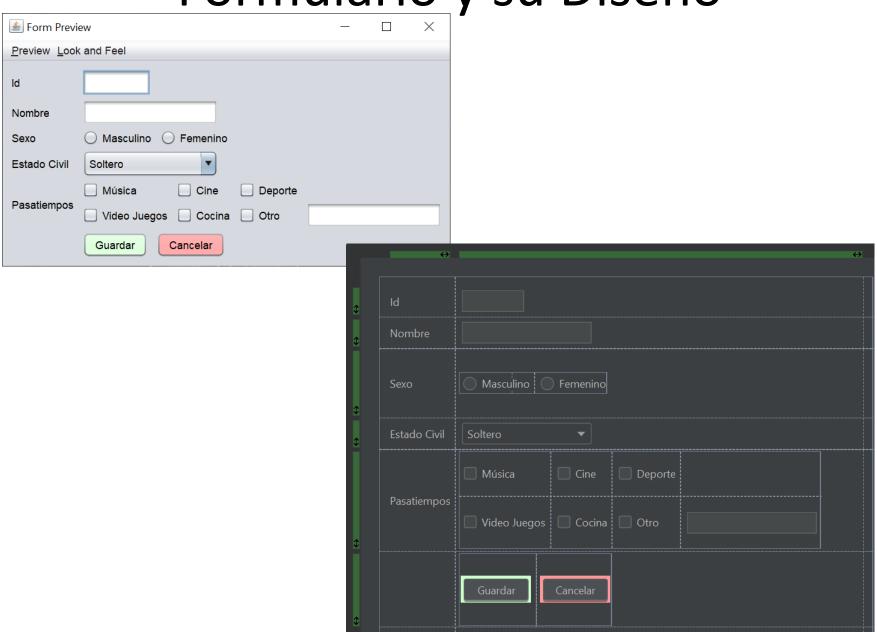


New GUI Form		X
<u>F</u> orm name:	View	ţ↓
Base <u>l</u> ayout manager:	GridLayoutManager (IntelliJ) ▼	
✓ Create <u>b</u> ound class		
<u>C</u> lass name:	View	
	<b>OK</b> Cance	el

## El formulario y sus Propiedades



Formulario y su Diseño

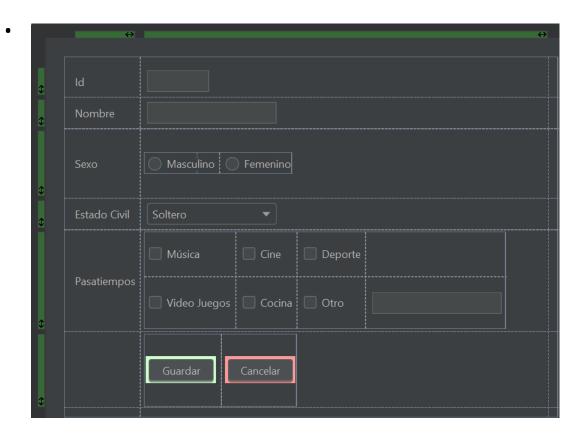


## Diseño GridLayout

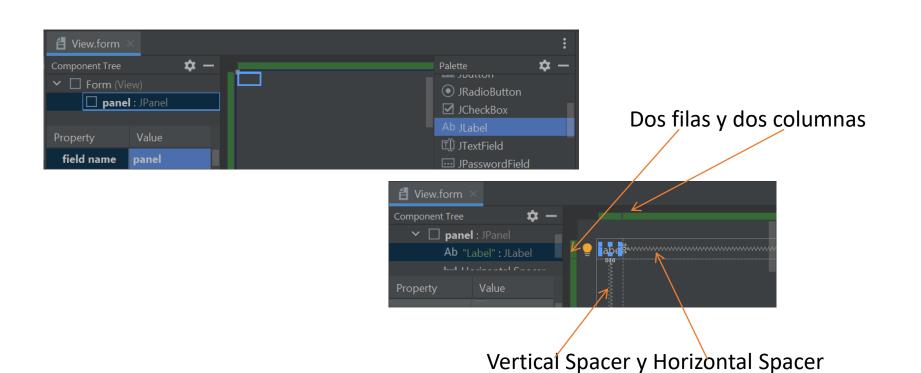
•Panel (Jpanel) principal con grid de 6 filas y 2 columnas

• Paneles (Jpanel) anidados en algunas celdas también

con diseño tipo grid.

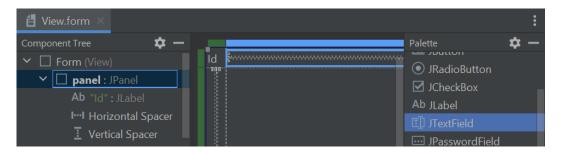


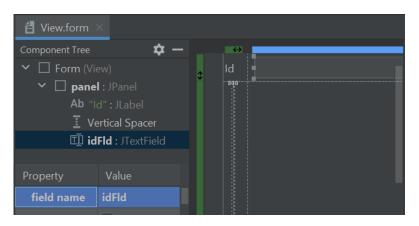
#### Agregando Componentes (label)



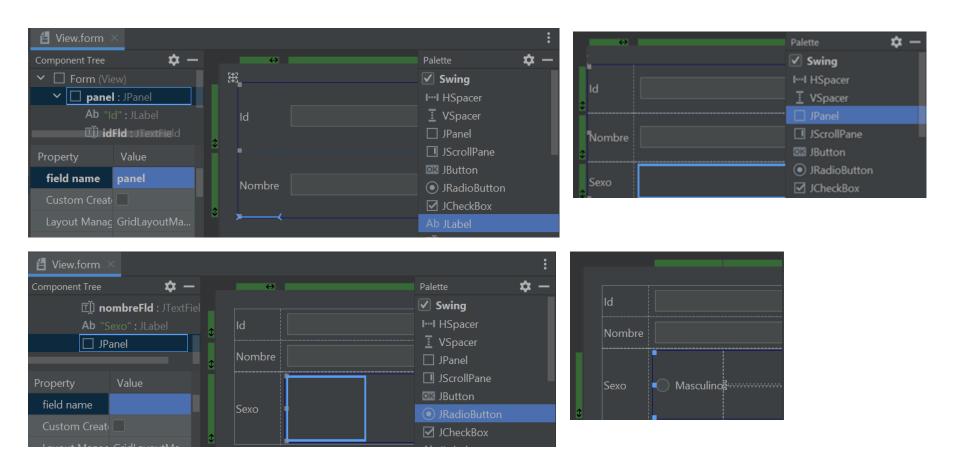
que serán sustituidos por otros componentes

#### Agregando Componentes (textfield)

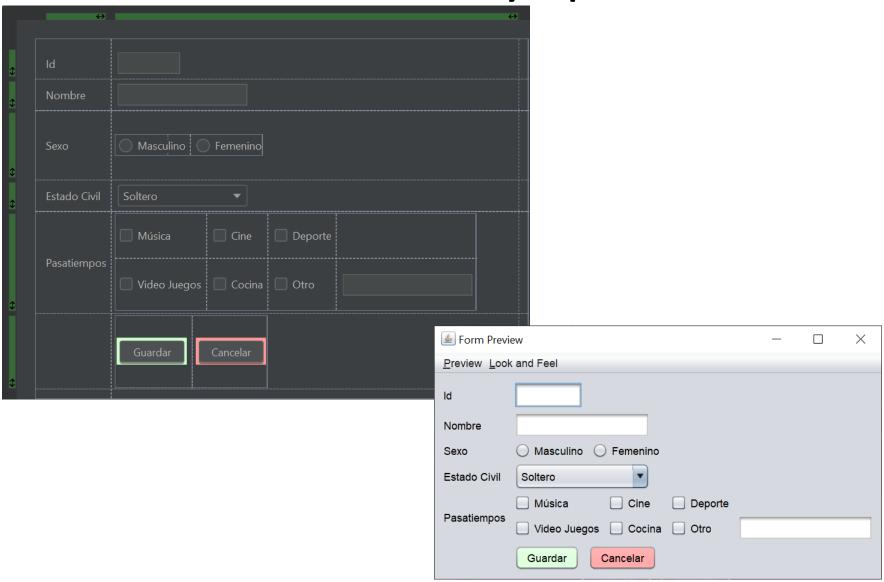




#### Agregando Componentes (label y panel)



Formulario final y "preview"



#### Formulario: "fuente"

```
Form - View.form
     <?xml version="1.0" encoding="UTF-8"?>
     <form xmlns="http://www.intellij.com/uidesigner/form/" version="1" bind-to-class="personas.View">
       <qrid id="27dc6" binding="panel" layout-manager="GridLayoutManager" row-count="6" column-count="2"</pre>
         <margin top="10" left="10" bottom="10" right="10"/>
         <constraints>
           <xy x="20" y="20" width="549" height="400"/>
         </constraints>
         cproperties/>
         <border type="none"/>
         <children>
           <component id="cb118" class="javax.swing.JTextField" binding="idFld">
             <constraints>
               <grid row="0" column="1" row-span="1" col-span="1" vsize-policy="0" hsize-policy="6" anchor</pre>
                 cpreferred-size width="75" height="-1"/>
               </grid>
             </constraints>
             cproperties/>
           </component>
           <component id="cdc34" class="javax.swing.JLabel">
             <constraints>
               <grid row="1" column="0" row-span="1" col-span="1" vsize-policy="0" hsize-policy="0" anchor</pre>
             </constraints>
```

## Formulario: código generado

(Fie | Settings | Editor | GUI Designer -> Generate GUI into: Binary/Java, Build 🚺 )

```
public class View {
 7
          private JPanel panel;
                                                  C View.java
          private JTextField idFld;
          private JTextField nombreFld;
          private JRadioButton sexoFldMasc;
                                                           // GUI initializer generated by IntelliJ IDEA GUI Designer
          private JRadioButton sexoFldFem;
          private JComboBox estadoFld;
                                                           // >>> IMPORTANT!! <<<
          private JCheckBox pasatiempoFldMusica;
          private JCheckBox pasatiempoFldCine;
                                                                     $$$setupUI$$$();
          private JCheckBox pasatiempoFldDeporte;
          private JCheckBox pasatiempoFldVideoJuegos;
          private JCheckBox pasatiempoFldCocina;
          private JTextField pasatiempoFldOtroDescripcion
          private JButton quardarFld;
                                                                 * Method generated by IntelliJ IDEA GUI Designer
21 🔍
                                                                 * >>> IMPORTANT!! <<<
                                                                  * @noinspection ALL
                                                                private void $$$setupUI$$$() {
                                                                     panel = new JPanel();
                                                                     panel.setLayout(new com.intellij.uiDesigner.core.GridLayoutManager(6, 2,
                                                                     idFld = new JTextField();
                                                                     panel.add(idFld, new com.intellij.uiDesigner.core.GridConstraints(0, 1, 2
                                                                     final JLabel label1 = new JLabel();
                                                                     label1.setText("Nombre");
```

## El programa principal (Application)

```
Application.java ×
       package personas;
       import javax.swing.*;
 5 >
       public class Application {
           public static void main(String[] args) {
               try {UIManager.setLookAndFeel("javax.swing.plaf.nimbus.NimbusLookAndFeel");}
               catch (Exception ex) {};
               View view = new View();
               JFrame window = new JFrame();
               window.setSize( width: 600, height: 300);
               window.setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
               window.setTitle("Personas");
               window.setContentPane(view.getPanel());
               window.setVisible(true);
```

## Ejecución

