public class CheckBoxExample extends JFrame implements ItemListener {

```
○ ○ ○ [=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;

✓ Red

private void initGUI() {
                                                                                                     Green

✓ Yellow
     redCB = new JCheckBox("Red");
     redCB.setSelected(true);
     redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
 public void itemStateChanged(ItemEvent e){
     boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
○ ○ ○ [=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;

✓ Red

                                                                                                        Blue
private void initGUI() {
                                                                                                      Green

✓ Yellow
     redCB = new JCheckBox("Red");
     redCB.setSelected(true);
     redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
 public void itemStateChanged(ItemEvent e){
      boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
○ ○ ○ [=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;

✓ Red

private void initGUI() {
                                                                                                        Green

✓ Yellow
     redCB = new JCheckBox("Red");
     redCB.setSelected(true);
     redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
 public void itemStateChanged(ItemEvent e){
     boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
○ ○ ○ [=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;

✓ Red

private void initGUI() {
                                                                                                              Green

✓ Yellow
     redCB = new JCheckBox("Red");
redCB.setSelected(true);
     redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
 public void itemStateChanged(ItemEvent e){
     boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
○ ○ ○ [=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;

✓ Red

private void initGUI() {
                                                                                                        Green

✓ Yellow
     redCB = new JCheckBox("Red");
     redCB.setSelected(true);
     redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
 public void itemStateChanged(ItemEvent e){
     boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
○ ○ ○ [=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;

✓ Red

private void initGUI() {
                                                                                                              Green

✓ Yellow
     redCB = new JCheckBox("Red");
     redCB.setSelected(true);
redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
 public void itemStateChanged(ItemEvent e){
     boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
[=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB;
JPanel redBox, blueBox, greenBox, yellowBox;
private void initGUI() {
                                                                                                       Yellow
     redCB = new JCheckBox("Red");
     redCB.setSelected(true);
redCB.addItemListener(this);
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
                                                                                                     Usa BoxLayout para
                                                                                                     agrupar checkboxes
 public void itemStateChanged(ItemEvent e){
     boolean visible = false:
     if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
[=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB; JPanel redBox, blueBox, greenBox, yellowBox;
                                                                                                                      Blue
private void initGUI() {
      redCB = new JCheckBox("Red");
redCB.setSelected(true);
redCB.addItemListener(this);

✓ Yellow
      blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
                                                                                                                 Usa BoxLayout para
                                                                                                                 agrupar checkboxes
                                                                                                   Porque usamos ItemListener
 public void itemStateChanged(ItemEvent e){
                                                                                                   en lugar de ActionListener?
      boolean visible = false;
      if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
      if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
[=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB; JPanel redBox, blueBox, greenBox, yellowBox;
                                                                                                                      Blue
private void initGUI() {
      redCB = new JCheckBox("Red");
redCB.setSelected(true);
redCB.addItemListener(this);

✓ Yellow
      blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
                                                                                                                 Usa BoxLayout para
                                                                                                                 agrupar checkboxes
                                                                                                   Porque usamos ItemListener
  public void itemStateChanged(ItemEvent e){
                                                                                                   en lugar de ActionListener?
      boolean visible = false;
      if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
      if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
[=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB; JPanel redBox, blueBox, greenBox, yellowBox;
                                                                                                                      Blue
private void initGUI() {
     redCB = new JCheckBox("Red");
redCB.setSelected(true);
redCB.addItemListener(this);

✓ Yellow
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
                                                                                                                Usa BoxLayout para
                                                                                                                agrupar checkboxes
                                                                                                  Porque usamos ItemListener
                                                                                                  en lugar de ActionListener?
 public void itemStateChanged(ItemEvent e){
      boolean visible = false;
      if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
      if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```

public class CheckBoxExample extends JFrame implements ItemListener {

```
[=] JCheckBox [=]
JCheckBox redCB, blueCB, greenCB, yellowCB; JPanel redBox, blueBox, greenBox, yellowBox;
                                                                                                                      Blue
private void initGUI() {
     redCB = new JCheckBox("Red");
redCB.setSelected(true);
redCB.addItemListener(this);

✓ Yellow
     blueCB = new JCheckBox("Blue");
blueCB.setSelected(false);
blueCB.addItemListener(this);
                                                                                                                Usa BoxLayout para
                                                                                                                agrupar checkboxes
                                                                                                  Porque usamos ItemListener
 public void itemStateChanged(ItemEvent e){
                                                                                                  en lugar de ActionListener?
      boolean visible = false;
      if (e.getStateChange() == ItemEvent.SELECTED) visible = true;
     if(e.getItemSelectable() == redCB) redBox.setVisible(visible);
else if(e.getItemSelectable() == blueCB) blueBox.setVisible(visible);
else if(e.getItemSelectable() == greenCB) greenBox.setVisible(visible);
else if(e.getItemSelectable() == yellowCB) yellowBox.setVisible(visible);
```