

## Labeled

- ❖ A *label* is a display area for a short text, a node, or both.
- ❖ It is often used to label other controls (usually text fields).
- ❖ Labels and Buttons share many common properties. These common properties are defined in the Labeled class.

#### javafx.scene.control.Labeled

-alignment: ObjectProperty<Pos>

-contentDisplay:
 ObjectProperty<ContentDisplay>

-graphic: ObjectProperty<Node>
-graphicTextGap: DoubleProperty

-textFill: ObjectProperty<Paint>

-text: StringProperty

-underline: BooleanProperty
-wrapText: BooleanProperty

Specifies the alignment of the text and node in the labeled.

Specifies the position of the node relative to the text using the constants TOP, BOTTOM, LEFT, and RIGHT defined in ContentDisplay.

A graphic for the labeled.

The gap between the graphic and the text.

The paint used to fill the text.

A text for the labeled.

Whether text should be underlined.

Whether text should be wrapped if the text exceeds the width.



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# Label

❖ The Label class defines labels.

javafx.scene.control.Labeled



#### javafx.scene.control.Label

+Label()

+Label(text: String)

+Label(text: String, graphic: Node)

Creates an empty label.

Creates a label with the specified text.

Creates a label with the specified text and graphic.



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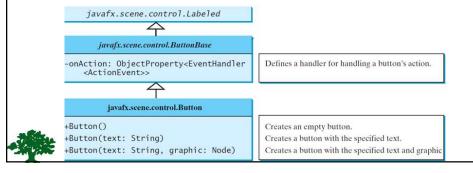
### ButtonBase and Button Say Hello World

Which pets do you have?

**☑** Dog Cat

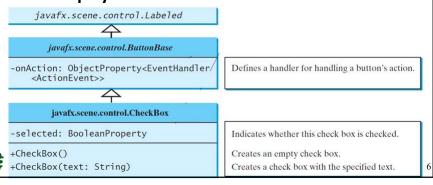
☐ Lizard

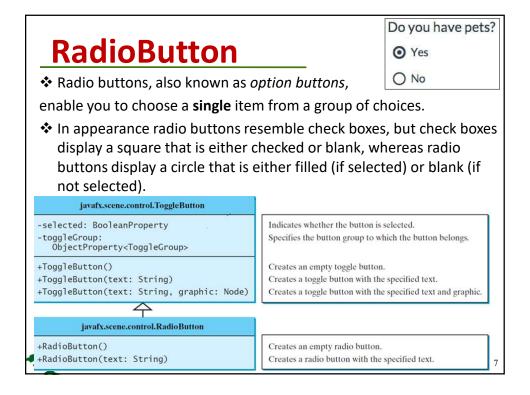
- ❖ A **Button** is a UI component that triggers an action event when clicked.
- ❖ JavaFX provides regular buttons, toggle buttons, check box buttons, and radio buttons.
- The common features of these buttons are defined in ButtonBase and Labeled classes.

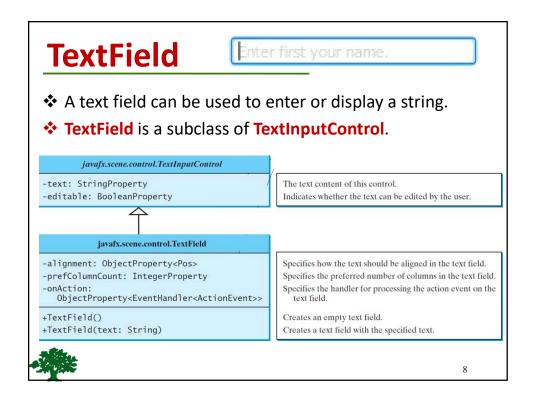


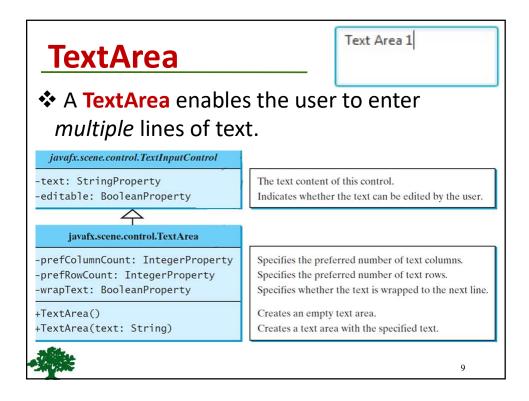
### **CheckBox**

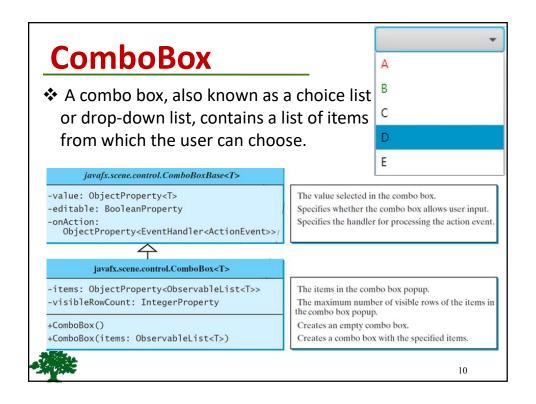
- A CheckBox is used for the user to make a selection (0 or more).
- CheckBox inherits all the properties such as onAction, text, graphic, alignment, graphicTextGap, textFill, contentDisplay from ButtonBase and Labeled.











## **ListView**

❖ A **list view** is a component that performs basically the same function as a combo box, but it enables the user to choose a single value or multiple values.









(a) Single selection

(b) Multiple selection

(c) Multiple selection

## **ListView**

### javafx.scene.control.ListView<T>

-items: ObjectProperty<ObservableList<T>> -orientation: BooleanProperty

-selectionModel:

ObjectProperty<MultipleSelectionModel<T>>

+ListView()

+ListView(items: ObservableList<T>)

The items in the list view.

Indicates whether the items are displayed horizontally or vertically

Specifies how items are selected. The SelectionModel is also used to obtain the selected items.

Creates an empty list view.

Creates a list view with the specified items.



	Time to be displayed here		
Food to be placed here	1	2	3
	4	5	6
	7	8	9
	0	Start	Stop

