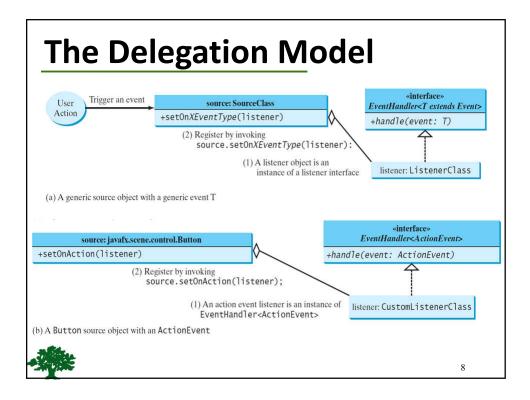


# Event Information An event object contains whatever properties are pertinent to the event. You can identify the source object of the event using the getSource() instance method in the EventObject class. The subclasses of EventObject deal with special types of events, such as button actions, window events, component events, mouse movements, and keystrokes.

### **Selected User Actions and Handlers**

User Action	Source Object	Event Type Fired	Event Registration Method
Click a button	Button	ActionEvent	<pre>setOnAction(EventHandler<actionevent>)</actionevent></pre>
Press Enter in a text field	TextField	ActionEvent	<pre>setOnAction(EventHandler<actionevent>)</actionevent></pre>
Check or uncheck	RadioButton	ActionEvent	<pre>setOnAction(EventHandler<actionevent>)</actionevent></pre>
Check or uncheck	CheckBox	ActionEvent	<pre>setOnAction(EventHandler<actionevent>)</actionevent></pre>
Select a new item	ComboBox	ActionEvent	<pre>setOnAction(EventHandler<actionevent>)</actionevent></pre>
Mouse pressed	Node, Scene	MouseEvent	<pre>setOnMousePressed(EventHandler<mouseevent>)</mouseevent></pre>
Mouse released			<pre>setOnMouseReleased(EventHandler<mouseevent></mouseevent></pre>
Mouse clicked			<pre>setOnMouseClicked(EventHandler<mouseevent>)</mouseevent></pre>
Mouse entered			<pre>setOnMouseEntered(EventHandler<mouseevent>)</mouseevent></pre>
Mouse exited			<pre>setOnMouseExited(EventHandler<mouseevent>)</mouseevent></pre>
Mouse moved			<pre>setOnMouseMoved(EventHandler<mouseevent>)</mouseevent></pre>
Mouse dragged			<pre>setOnMouseDragged(EventHandler<mouseevent>)</mouseevent></pre>
Key pressed	Node, Scene	KeyEvent	<pre>setOnKeyPressed(EventHandler<keyevent>)</keyevent></pre>
Key released			<pre>setOnKeyReleased(EventHandler<keyevent>)</keyevent></pre>
Key typed			<pre>setOnKeyTyped(EventHandTer<keyevent>)</keyevent></pre>
2 Aler			



# The Delegation Model: Example

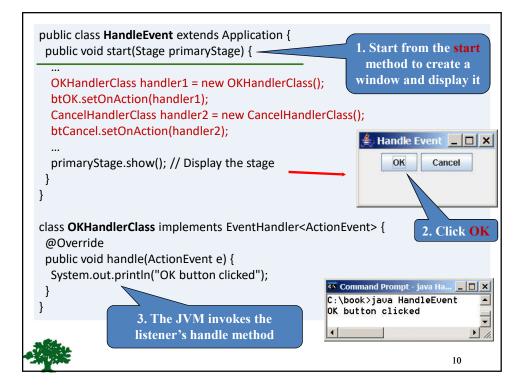
class OKHandlerClass implements EventHandler<ActionEvent>{
 public void handle(ActionEvent e) {
 System.out.println("OK button clicked");
 }

Button btOK = new Button("OK");

OKHandlerClass handler = new OKHandlerClass();

btOK.setOnAction(handler);

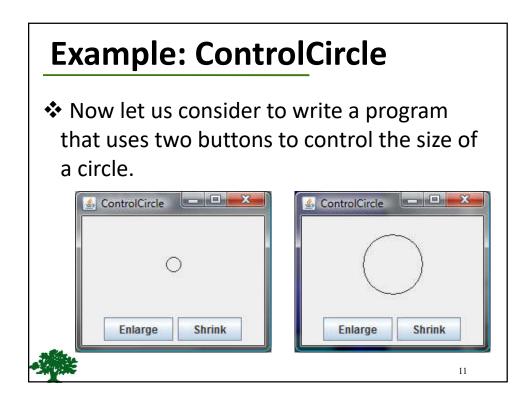
} }

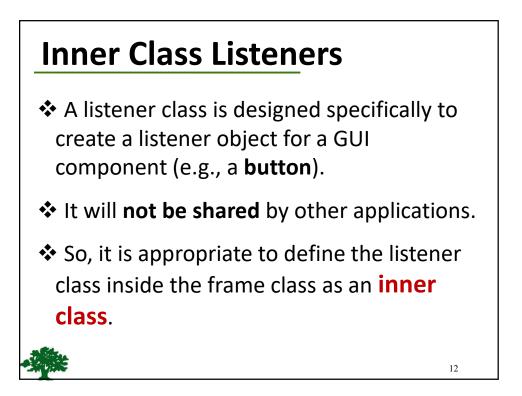


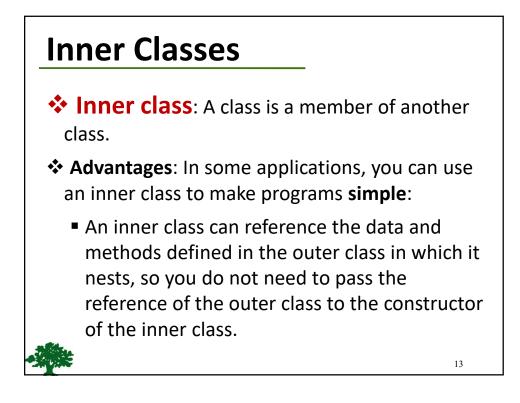
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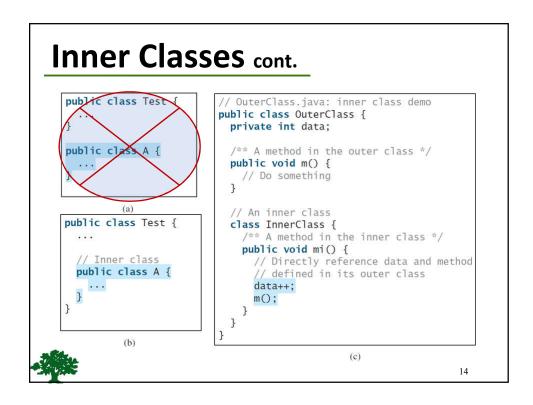
Uploaded By: anonymous

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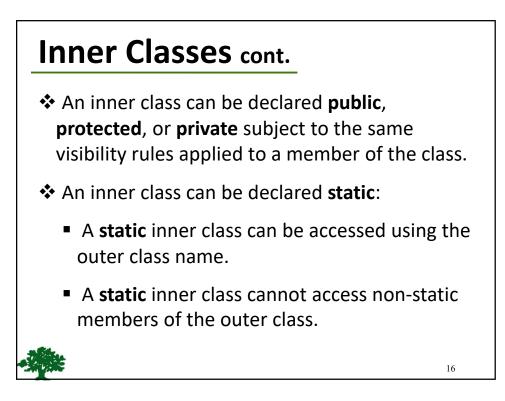
### Inner Classes cont.

An inner class supports the work of its containing outer class and is compiled into a class named:

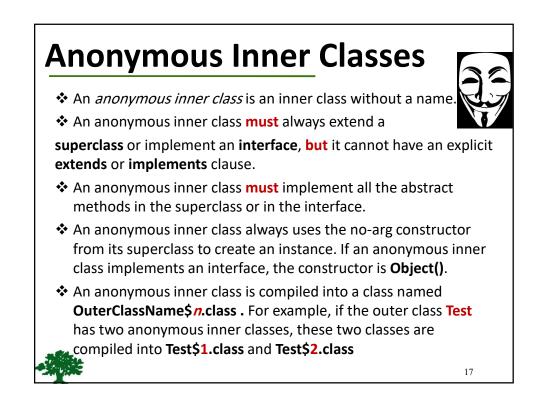
### *OuterClassName*\$*InnerClassName*.class

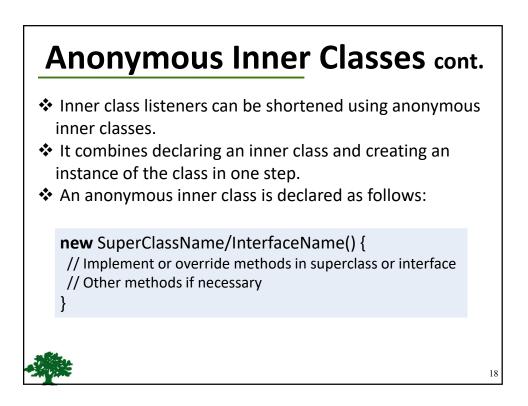
 For example, the inner class InnerClass in OuterClass is compiled into:

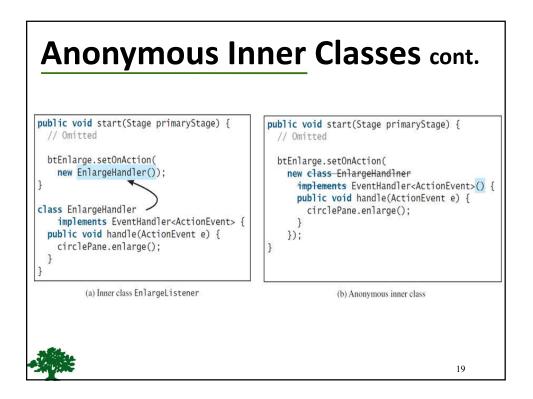
### OuterClass \$InnerClass.class

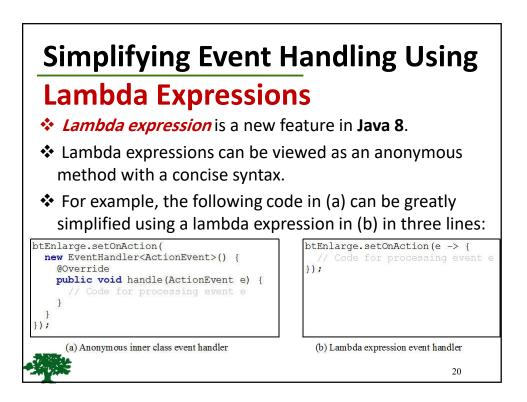


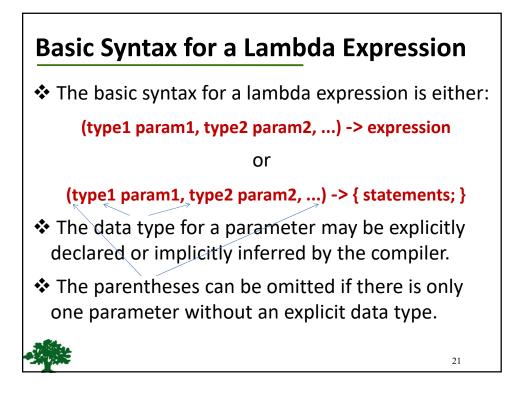
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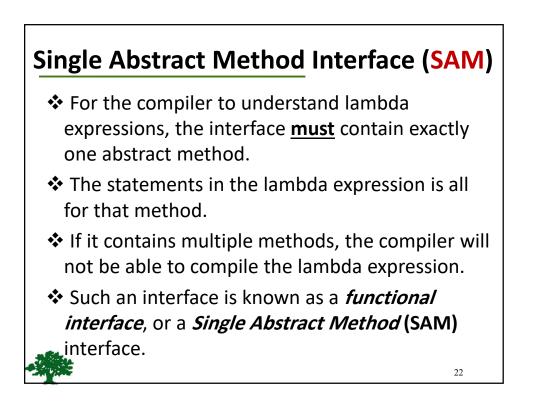












# **MouseEvent**

### javafx.scene.input.MouseEvent

+getButton(): MouseButton
+getClickCount(): int
+getX(): double
+getY(): double
+getSceneX(): double
+getSceneY(): double
+getScreenX(): double
+getScreenY(): double
+isAltDown(): boolean
+isControlDown(): boolean
+isMetaDown(): boolean
+isShiftDown(): boolean
+issiii coomi(). boolean

Indicates which mouse button has been clicked. Returns the number of mouse clicks associated with this event. Returns the *x*-coordinate of the mouse point in the event source node. Returns the *y*-coordinate of the mouse point in the event source node. Returns the *x*-coordinate of the mouse point in the scene. Returns the *y*-coordinate of the mouse point in the scene. Returns the *x*-coordinate of the mouse point in the screen. Returns the *x*-coordinate of the mouse point in the screen. Returns the *x*-coordinate of the mouse point in the screen. Returns the *y*-coordinate of the mouse point in the screen. Returns true if the Alt key is pressed on this event. Returns true if the Control key is pressed on this event. Returns true if the Mouse Meta button is pressed on this event. Returns true if the Shift key is pressed on this event.

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# The KeyEvent Class

### javafx.scene.input.KeyEvent

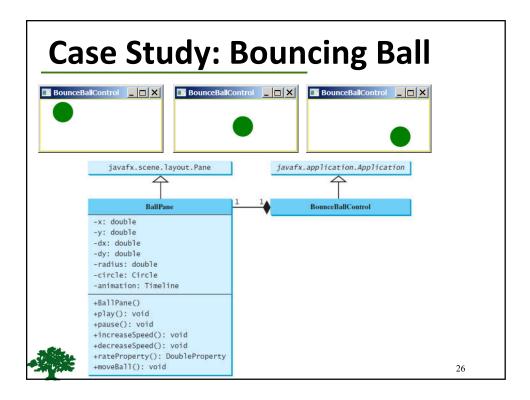
+getCharacter(): String +getCode(): KeyCode +getText(): String +isAltDown(): boolean +isControlDown(): boolean +isMetaDown(): boolean +isShiftDown(): boolean Returns the character associated with the key in this event. Returns the key code associated with the key in this event. Returns a string describing the key code. Returns true if the Alt key is pressed on this event. Returns true if the Control key is pressed on this event. Returns true if the mouse Meta button is pressed on this event.

Returns true if the Shift key is pressed on this event.

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# The KeyCode Constants

Constant	Description	Constant	Description
HOME	The Home key	CONTROL	The Control key
END	The End key	SHIFT	The Shift key
PAGE_UP	The Page Up key	BACK_SPACE	The Backspace key
PAGE_DOWN	The Page Down key	CAPS	The Caps Lock key
UP	The up-arrow key	NUM_LOCK	The Num Lock key
DOWN	The down-arrow key	ENTER	The Enter key
LEFT	The left-arrow key	UNDEFINED	The keyCode unknown
RIGHT	The right-arrow key	F1 to F12	The function keys from F1 to F12
ESCAPE	The Esc key	0 to 9	The number keys from 0 to 9
TAB	The Tab key	A to Z	The letter keys from A to Z



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