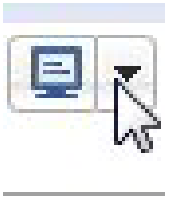
# Exercises: Event Handling

Make a new Google Web Application Project called “ExercisesEvents” (or some such -- my solution set is called GwtEventsExercises). Since you are not using any of the code in the “server” package, edit war/WEB-INF/web.xml and remove the servlet and servlet-mapping tags at the top. Then, delete all the classes in the “server” package.

1. Make a TextBox and a Button. What happens when you press the button should depend on what is in the textfield. If the textfield contains “English” when the button is pressed, “Hello” should be inserted in the page. If the textfield contains “Spanish” when the button is pressed, “Hola” should be inserted in the page. Otherwise, “Error” should be inserted. Test in development mode.
2. Make two textfields for numbers as in the previous exercises. But, this time omit the pushbutton. Instead, when the user types a number into either textfield, insert the sum of the two numbers into the page. Use a colored error message if the user enters an illegal entry. Test in development mode.
3. Make a list box that contains four choices (plus “Choose Range” at the top): 0-10, 0-100, 0-1000, and 0-10,000. When the user chooses one of the four choices, insert a random number in the specified range into the page. Test in development mode. What is the main problem with using list boxes for this type of action?
4. Make three radio buttons with labels Default, Red, and Blue. Make Default the initial value. When the user selects one of the radio buttons, change the page background accordingly. Test in development mode.
5. Test the project in production mode.
6. Test the project in deployed mode.

Note: at some point, you are almost certain to forget to stop the previous app before trying to deploy a new one. The new app will fail to start, and the Console tab will show an error message about the port already being in use. But, it is a bit hard to get back to the old app at this point. To do so, click on the Console tab, then go to menu on far right of that tab that says “Display Selected Console” (when you hover over it). Expand menu, choose old app, then click red Stop button.