

Japanese Bindable and Vetoable transformation

ASTSwing @Bindable @Vetoable SwingUIUIJavaBeansPropertyChangeListenerListenersJava Beans

```
import java.beans.PropertyChangeSupport;
import java.beans.PropertyChangeListener;

public class MyBean {
    private String prop;

    PropertyChangeSupport pcs = new PropertyChangeSupport(this);

    public void addPropertyChangeListener(PropertyChangeListener l) {
        pcs.add(l);
    }

    public void removePropertyChangeListener(PropertyChangeListener l) {
        pcs.remove(l);
    }

    public String getProp() {
        return prop;
    }

    public void setProp(String prop) {
        pcs.firePropertyChanged("prop", this.prop, this.prop = prop);
    }
}
```

Groovy@Bindable

```
class MyBean {
    @Bindable String prop
}
```

GroovySwingnew bind()

```
textField text: bind(source: myBeanInstance, sourceProperty: 'prop')
```

```
textField text: bind { myBeanInstance.prop }
```

```
bean location: bind { pos.x + ', ' + pos.y }
```

ObservableMap ObservableList

@Bindable @Vetoable 'z'Trompetist

```
import java.beans.*
import groovy.beans.Vetoable

class Trumpetist {
    @Vetoable String name
}

def me = new Trumpetist()
me.vetoableChange = { PropertyChangeEvent pce ->
    if (pce.newValue.contains('z'))
        throw new PropertyVetoException("The letter 'z' is not allowed in a name",
pce)
}

me.name = "Louis Armstrong"

try {
    me.name = "Dizzy Gillespie"
    assert false: "You should not be able to set a name with letter 'z' in it."
} catch (PropertyVetoException pve) {
    assert true
}
```

Swing

```
import groovy.swing.SwingBuilder
import groovy.beans.Bindable
import static javax.swing.JFrame.EXIT_ON_CLOSE

class TextModel {
    @Bindable String text
}

def textModel = new TextModel()

SwingBuilder.build {
    frame( title: 'Binding Example (Groovy)', size: [240,100], show: true,
        locationRelativeTo: null, defaultCloseOperation: EXIT_ON_CLOSE ) {
        gridLayout cols: 1, rows: 2
        textField id: 'textField'
        bean textModel, text: bind{ textField.text }
        label text: bind{ textModel.text }
    }
}
```

SwingBuilderGroovySwingGriffonGrails (CoC: *Convention over Configuration*) Gant

SwingGriffon