Model / View Separation & Interaction

Model

internal state

event

triggers update

View

Goal:
1. View should let the user see an abstraction of the state
2. As the model changes, the view updates
   - Polling or Event notification
Adv:
- Multiple kinds of views
- Keep multiple views in synchrony

See SharedDocuments.java
`JTextField` + `JTextArea` have `documents` their models

`JTextArea` has `events` (key strokes) `event notification` changes document

Controller
JTree

- ...abc
defghi

has a model (tree nodes, starting at a root)

- JTree reads the model incrementally
- it just paints the tree — you can't put components into the tree

can have an infinite model

See InfiniteTree.java
Creating a view that updates due to property change notification

See ListeningPaintedBuffer.java
Want:

Custom model

fire PropertyChange

JavaBeans PropertyChange Support

addPropertyChangeListener

events

View
See SomeViewTest.java
 + SomeModel.java
 + SomeView.java
Do you like surveys?

- Yes!