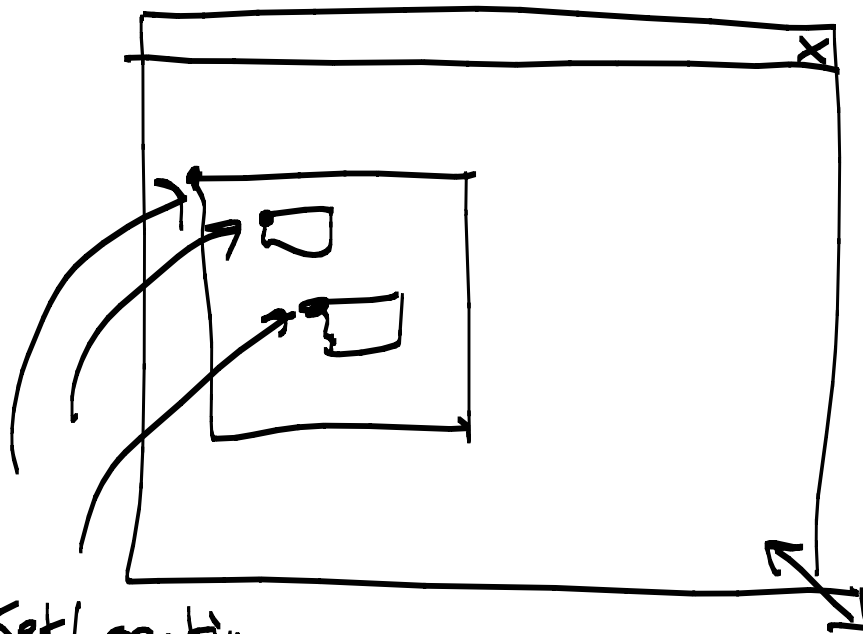


GUI Components, Containers, and Layout

Note Title

2/20/2007



JFrame

add(....)

- What components?
- where do they go?
- how are they nested

Set Location

Not very Flexible

Want: Algorithm for laying out the components in a container

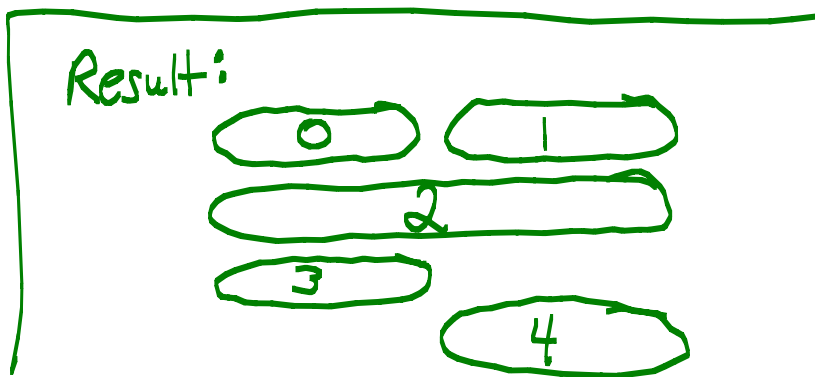
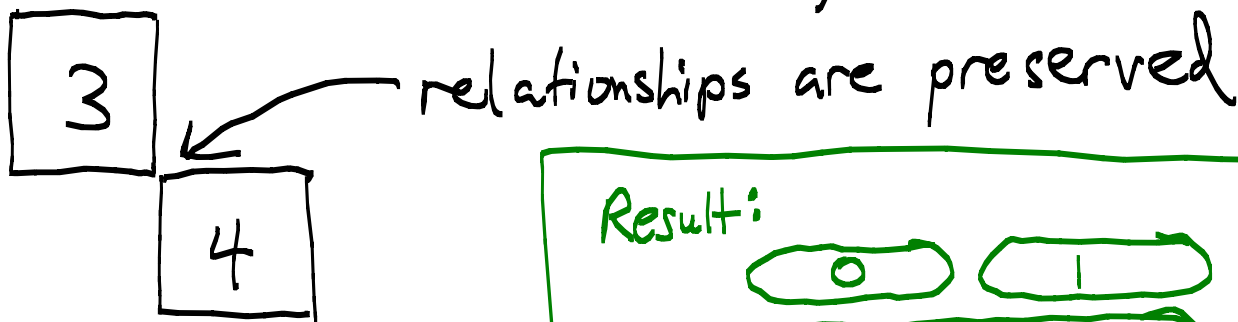
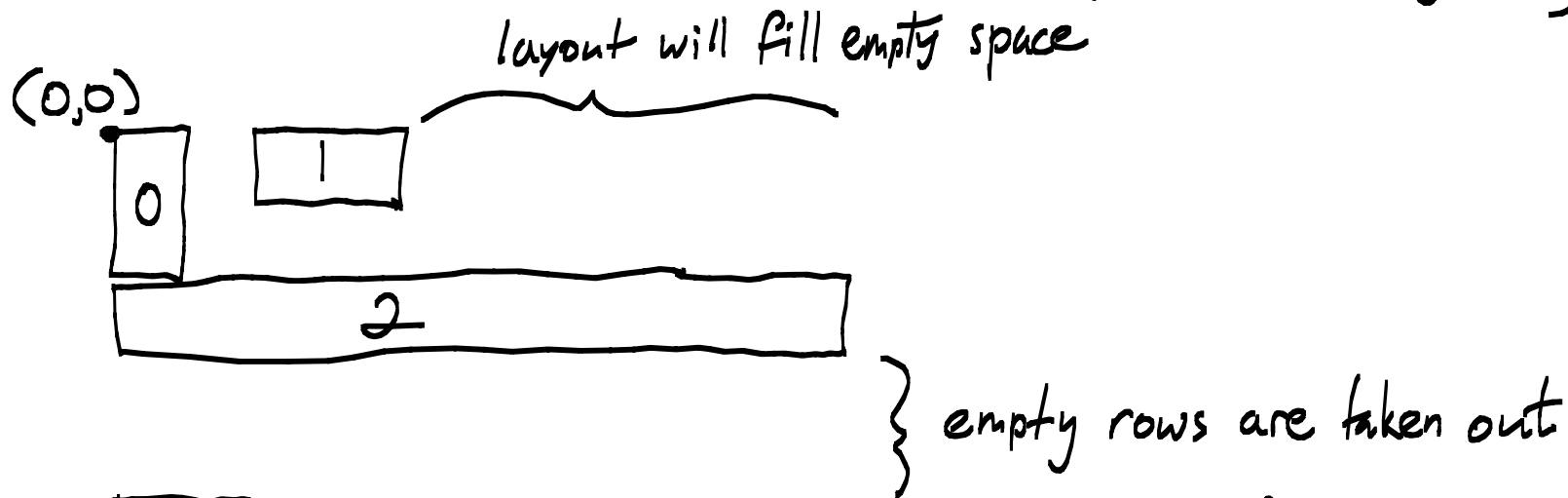
One option: Different types of containers **X**

Better: "plug in" the algorithm \Rightarrow LayoutManager

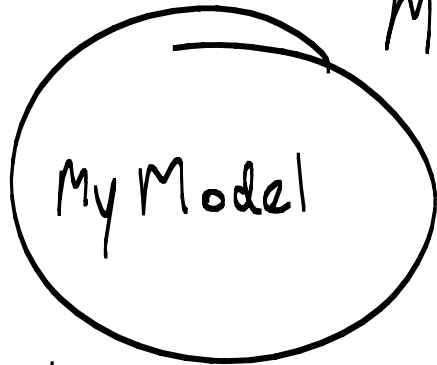
Border layout



GridBagLayout example (from GridLayoutExample.java)



Model/View interaction:



Lab 1

MyView extends JPanel implements PropertyChangeListener {

MyModel m;
new MyView(MyModel m) {

this.m = m;

→ m.addPropertyChangeListener(this);
update();

}
void update() {

looks at state of model &
displays visualization of it

}
public void propertyChanged(PropertyChangeEvent pce) {
update();
}

java.beans.PropertyChangeSupport