

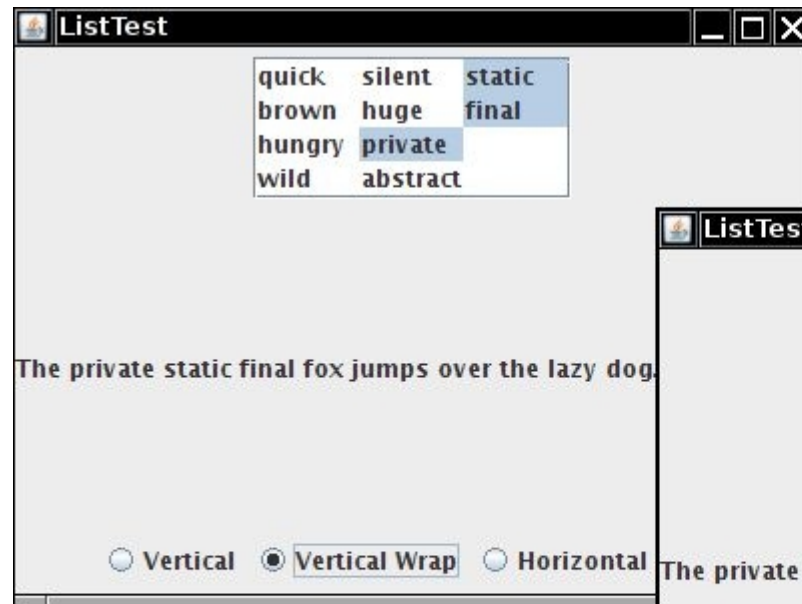
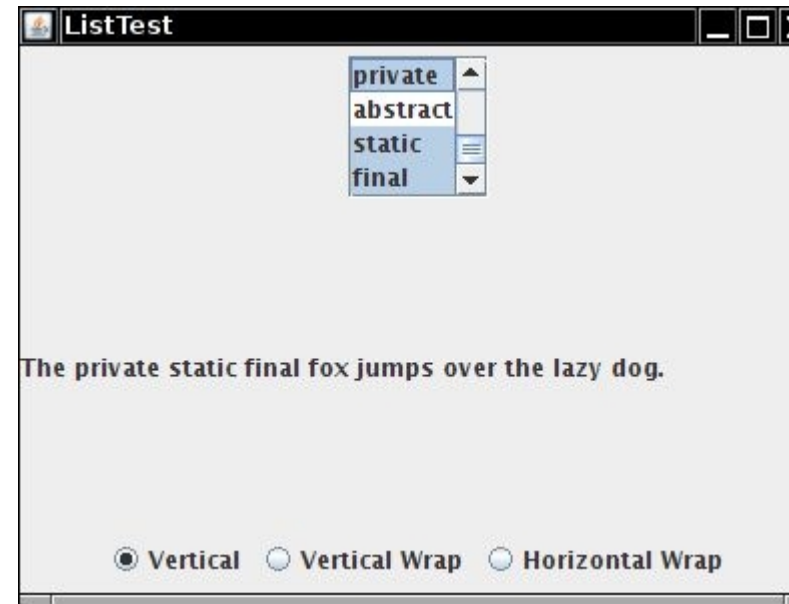
# Advance Swing

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# List

```
String[] words= { "quick", "brown", "hungry", ....};  
JList<String> wordList = new JList<>(words);  
JScrollPane scrollPane = new JScrollPane(wordList);  
wordList.setVisibleRowCount(4);  
wordList.setLayoutOrientation(JList.VERTICAL_WRAP);
```



JList.VERTICAL

JList.VERTICAL\_WRAP

JList.HORIZONTAL\_WRAP

# List contd...

```
wordList.setSelectionMode(ListSelectionMode.MULTIPLE_INTERVAL_SELECTION);
```

```
ListSelectionMode.SINGLE_SELECTION  
ListSelectionMode.SINGLE_INTERVAL_SELECTION  
ListSelectionMode.MULTIPLE_INTERVAL_SELECTION
```

```
wordList.setPrototypeCellValue("www");  
wordList.setFixedCellWidth(50);  
wordList.setFixedCellHeight(15);
```

```
wordList.addListSelectionListener(new ListSelectionListener()  
{  
    public void valueChanged(ListSelectionEvent evt)  
    {  
        label.setText(wordList.getSelectedValue());  
    }  
});
```

# List Models

→ Used for

Very long lists

Lists with changing contents

Lists that don't contain strings

→ extend

*AbstractListModel<E>*

→ implement

*int getSize()*

*E getElementAt(int n)*

# Tables

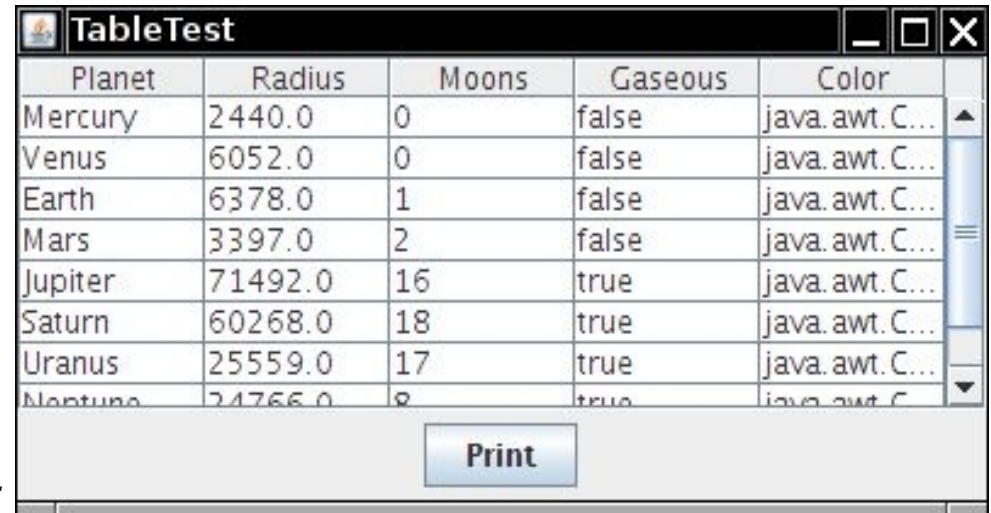
```
String[] columnNames = { "Planet", "Radius", "Moons",  
"Gaseous", "Color" };
```

```
Object[][] cells =  
{  
    { "Mercury", 2440.0, 0, false, Color.YELLOW },  
    { "Venus", 6052.0, 0, false, Color.YELLOW },  
    ...  
}
```

```
JTable table = new JTable(cells, columnNames);
```

```
JScrollPane pane = new JScrollPane(table);
```

```
table.print();
```



The screenshot shows a Java Swing window titled "TableTest". Inside the window is a JTable with five columns: "Planet", "Radius", "Moons", "Gaseous", and "Color". The table contains data for the first seven planets. The "Color" column displays the text "java.awt.Color.YELLOW" for each row. Below the table is a "Print" button. The window has standard Mac OS X window controls (red, yellow, and green buttons) in the top-left corner.

Planet	Radius	Moons	Gaseous	Color
Mercury	2440.0	0	false	java.awt.Color.YELLOW
Venus	6052.0	0	false	java.awt.Color.YELLOW
Earth	6378.0	1	false	java.awt.Color.YELLOW
Mars	3397.0	2	false	java.awt.Color.YELLOW
Jupiter	71492.0	16	true	java.awt.Color.YELLOW
Saturn	60268.0	18	true	java.awt.Color.YELLOW
Uranus	25559.0	17	true	java.awt.Color.YELLOW
Neptune	24766.0	8	true	java.awt.Color.YELLOW

# Table Models

→ extend

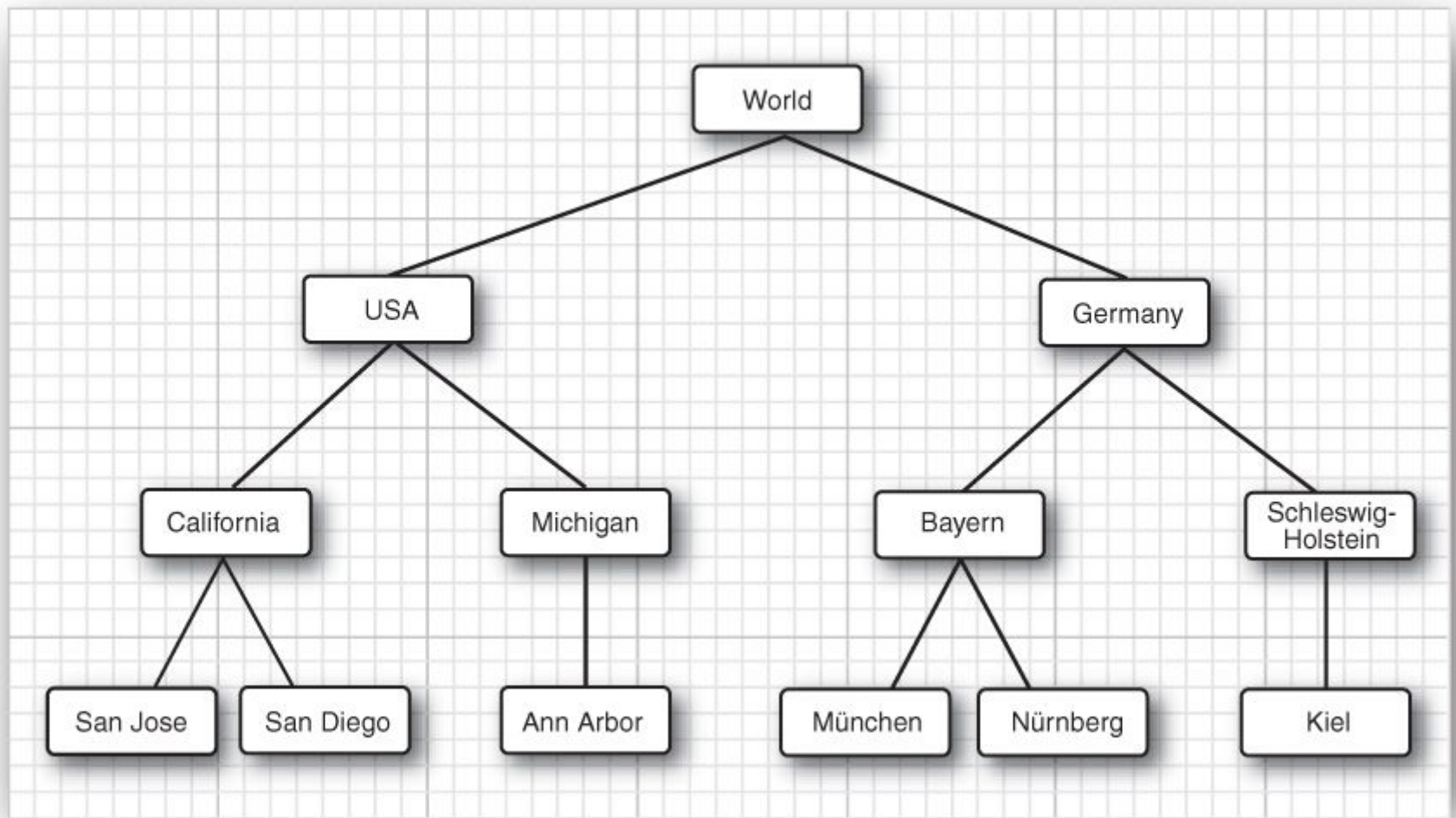
*AbstractTableModel*

→ implement

```
public int getRowCount();  
public int getColumnCount();  
public Object getValueAt(int row, int column);
```

# Tree

Nodes , Leaf , Parent , Root node , Child node , Forest



# Tree contd...

```
TreeNode root = new DefaultMutableTreeNode("World");
```

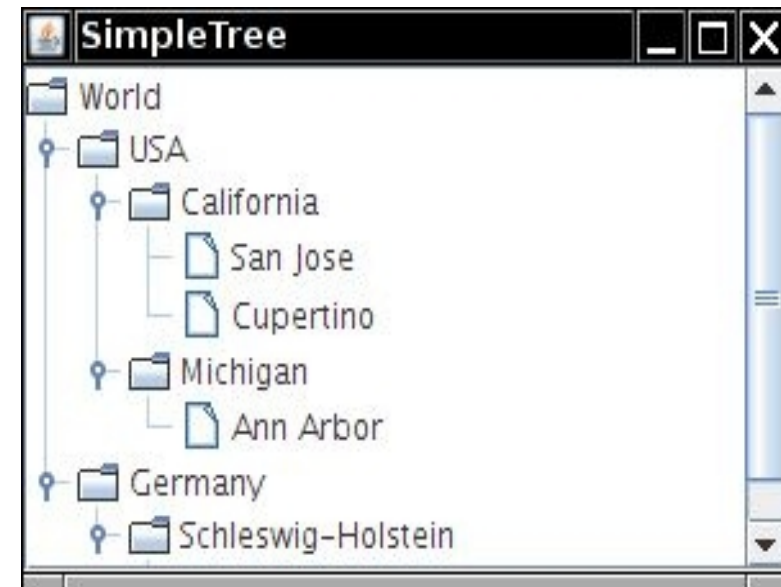
```
DefaultMutableTreeNode country = new  
DefaultMutableTreeNode("USA");
```

```
root.add(country);
```

```
TreeModel model = new DefaultTreeModel(root);  
JTree tree = new Jtree(treeModel);
```

```
JScrollPane pane = new JScrollPane(tree);
```

```
tree.putClientProperty("JTree.lineStyle", "None");
```





# Progress Bars

**HomeWork**