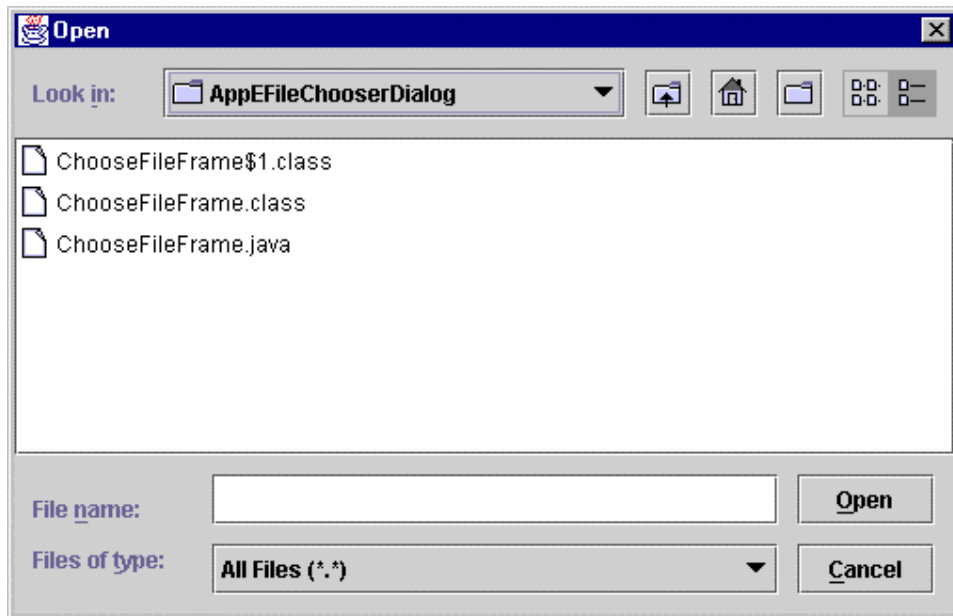


## JAVA NOTES

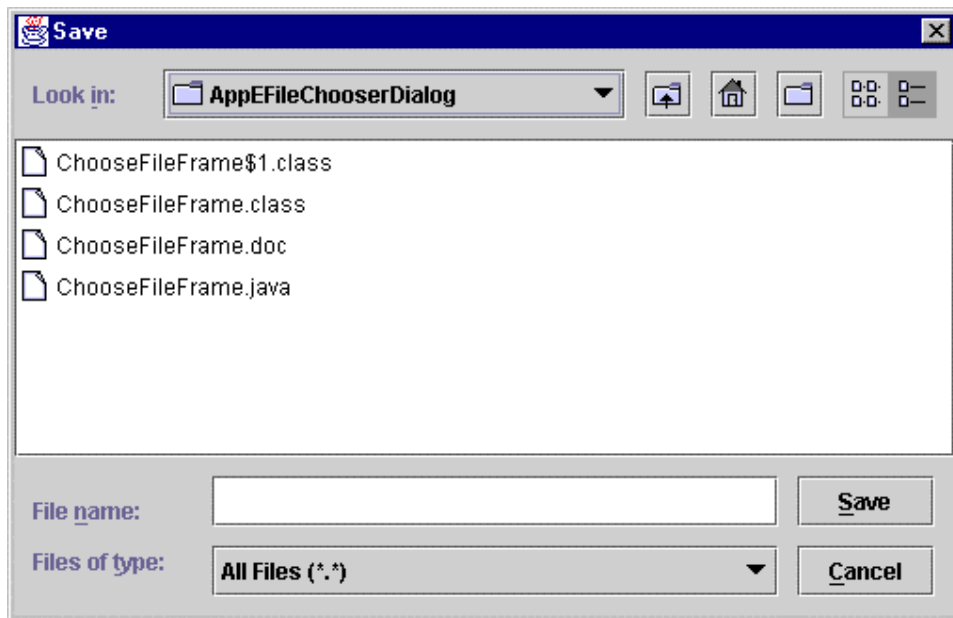
### GRAPHICAL USER INTERFACES

#### APPENDIX E FILE DIALOG BOXES

The *JFileChooser* allows you to browse and select a file for opening, and to save a file.



**Figure E1** *Open File Dialog*



**Figure E2** *Save File Dialog*

First, we make a *FileChooser* object.

```
JFileChooser fileChooser = new JFileChooser();
```

Then we set the directory to be the current working directory.

```
fileChooser.setCurrentDirectory(new File("."));
```

Then we show the dialog box by calling either *showOpenDialog(Component)* or *showSaveDialog(Component)*. The component can be any container such as a frame or a panel.

```
int result = fileChooser.showSaveDialog(this);
```

The value returned is either *JFileChooser.APPROVE\_OPTION* or *JFileChooser.CANCEL\_OPTION*.

You get the selected file with

```
File file = fileChooser.getSelectedFile();  
String fileName = file.getName();
```

```
/* ChooseFileFrame.java
   Terry Marris 14 July 2001
*/

import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import javax.swing.event.*;
import java.io.*;

public class ChooseFileFrame extends JFrame {
    public ChooseFileFrame()
    {
        setTitle("Choose File Frame");

        Toolkit tk = Toolkit.getDefaultToolkit();
        Dimension screen = tk.getScreenSize();
        setLocation(screen.width/4, screen.height/4);
        setSize(screen.width/2, screen.height/2);

        addWindowListener(new WindowAdapter()
        {
            public void windowClosing(WindowEvent e)
            {
                System.exit(0);
            }
        });

        JFileChooser fileChooser = new JFileChooser();
        fileChooser.setCurrentDirectory(new File("."));
        int result = fileChooser.showSaveDialog(this);

        String fileName = "";
        if (result == JFileChooser.CANCEL_OPTION)
            fileName = "None";

        if (result == JFileChooser.APPROVE_OPTION) {
            File file = fileChooser.getSelectedFile();
            fileName = file.getName();
        }

        String message = "File chosen is ... " + fileName;
        JOptionPane.showMessageDialog(
            this, message, "File Choice Result",
            JOptionPane.PLAIN_MESSAGE, null);
    }
}
```

```

public static void main(String[] s)
{
    new ChooseFileFrame().show();
}
}

```

### javax.swing.JFileChooser

Constructors	
JFileChooser()	initialises a file chooser dialog that can be used with multiple frames.

Methods		
void	setCurrentDirectory(File dir)	sets the initial directory for this file chooser.
void	setSelectedFile(File f)	sets the default file choice for this file chooser.
int	showOpenDialog(Component c)	shows a File Open dialog in the given component (e.g. a frame or panel). Returns APPROVE_OPTION or CANCEL_OPTION.
int	showSaveDialog(Component c)	shows a File Save dialog in the given component (e.g. a frame or panel). Returns APPROVE_OPTION or CANCEL_OPTION.
File	getFile()	returns the file selected by the user, or null if no file was selected.

Further reading: HORSTMANN & CORNELL *Core Java 2 Volume 1* pp 524.