

Re: Serialization

Source: <http://coding.derkeiler.com/Archive/Java/comp.lang.java.help/2004-07/1106.html>

From: Roedy Green (look-on-at_mindprod.com.invalid)

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On Wed, 21 Jul 2004 13:12:49 GMT, "Mr. Smith"
<johnmresler@sbcglobal.net> wrote or quoted :

>Sorry for not searching the archives first but I'm in a rush out the door. I
>consider myself a fairly knowledgeable Java programmer and I understand the
>"intent" behind serialization but I have yet to see a good example code that
>displays it in use. Can anyone point me to a source on the web or elsewhere?
>Thanks for your help.

look at <http://mindprod.com/projects/javapresenter.html>

It reads a prepared Java source code as as stream of serialised tokens and displays them.

Serialisation is great because you can dump an entire collection, and read it back with a single I/O. It lets you massage data in one app and use it in another.

In the Java glossary if you turn on the frame, you see a navigation aid, which reads a serialised version of the website index and lets you jump to any item. The applet itself is just a few lines. All the work preparing the index is done in batch ahead of time.

Here is the applet:

```
package com.mindprod.qf;
import java.applet.Applet;
import java.awt.Choice;
import java.awt.Color;
import java.awt.event.ItemListener;
import java.io.InputStream;
import java.net.URL;
```

```
/**
```

```
 * Applet that the end user interacts with. Uses serialised data list
of names and targets.
 * Quick find select human name and jump to corresponding URL.
 * Applet param golist controls where serialised list comes from.
 * param window controls target window.
```

* See also com\mindprod\keywords\keywords.java which produces the keyword list.

```

*/
public class Go extends Applet
{
/**
 * List of human names to URLs
 */
GoList goList;

/**
 * displayed human names of the anchors
 */
Choice anchorList;

public void init()
{
setBackground(Color.white);
setLayout(null);
String membername = getParameter("golist");
if ( membername == null || membername.length() == 0 )
{
System.out.println("Missing GoList\n");
return;
}
try
{

InputStream is =
Go.class.getResourceAsStream("/com/mindprod/ql/" + membername);
if ( is == null )
{
System.out.println("Missing GoList \"" + membername +
"\n");
return;
}
goList = GoList.getData(is);
}
catch ( Exception e )
{
System.out.println("Missing GoList \"" + membername + "\" " +
e + "\n");
return;
}
anchorList = new Choice();
int n = goList.size();
for ( int i=0; i<n; i++ )
{
// use addItem instead of add to keep IE happy.
anchorList.addItem((String) goList.getHumannname(i));
}
}
}

```

```

anchorList.select(0);
anchorList.setSize(this.getSize());
add(anchorList);
anchorList.addItemListener(
    new ItemListener()
    {
        public void
itemStateChanged(java.awt.event.ItemEvent event)
        {
            try
            {
                int index =
anchorList.getSelectedIndex();
                if ( index >= 0 )
                {
                    // send them off to visit
the matching page
                    // won't work unless we
are in a browser

                    String ref;
                    String target =
goList.getTarget( index );
                    if ( target.length() != 0
)
                    {
                        ref =
goList.getFilename( index ) + '#' + target;
                    }
                    else
                    {
                        ref =
goList.getFilename( index );
                    }
                    java.net.URL url = new
URL( getDocumentBase(), ref );
                    String window =
getParameter( "window" );
                    if ( window == null ||
window.length() == 0 )
                    {

goAppletContext().showDocument( url );
                    }
                    else
                    {

goAppletContext().showDocument( url, window );
                    }
                }
            }
        }
    }
)

```

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```
        catch ( Exception e )
        {
            // don't sweat it if it does
not work.
        }
    }
});

    this.setVisible(true); // Lights, Camera, Action.

}

}

--
Canadian Mind Products, Roedy Green.
Coaching, problem solving, economical contract programming.
See http://mindprod.com/jgloss/jgloss.html for The Java Glossary.
```