



SWT - Drag & Drop

Le 10 septembre 2008 à 08:56.

Un petit exemple de drag & drop entre un navigateur (source URL) et une application SWING.

D'abord la classe qui gère le type de contenu URL

```
package net.karmaLab.thema.ui.dnd;

import java.util.logging.Logger;

import net.karmaLab.traces.Traces;

import org.eclipse.swt.dnd.ByteArrayTransfer;
import org.eclipse.swt.dnd.TransferData;
import org.eclipse.swt.internal.gtk.OS;

public class URLTransfer extends ByteArrayTransfer {
    private static URLTransfer _instance = new URLTransfer();

    private static final String [] TYPE_NAMES = { "COMPOUND_TEXT", "UTF8_STRING",
"TEXT", "text/plain", "text/html" };

    private static final int[] TYPE_IDS = registerTypes(TYPE_NAMES);

    /** static class logger. */
    private static Logger logger = Traces.LOGGER(URLTransfer.class);

    public static URLTransfer getInstance() {
        return _instance;
    }

    /**
     * @param typeNames
     * @return
     */
    private static int[] registerTypes(String [] typeNames) {
        int[] ids = new int[typeNames.length];
        for (int i = 0; i < typeNames.length; i++) {
            ids[i] = registerType(typeNames[i]);
        }
        return ids;
    }

    @Override protected int[] getTypeIds() {
        return TYPE_IDS;
    }

    @Override protected String [] getTypeNames() {
        return TYPE_NAMES;
    }

    /**
     * @param transferData
     * @return
     */
    private String [] hex(TransferData transferData) {
        return Integer [].toHexString(transferData.type);
    }

    @Override public boolean isSupportedType(TransferData transferData) {
        boolean res = super.isSupportedType(transferData);
        String [] match = "none";
        for (int i = 0; i < TYPE_IDS.length; i++) {
            if (TYPE_IDS[i] == transferData.type) {
```

```

        match = TYPE_NAMES[i];
    }
}
logger.config("Is Supporteed:" + hex(transferData) + "[" + match + ":" + res
+ "]");
return res;
}

@Override public void javaToNative(Object [3] object, TransferData transferData) {
    System [4].out.println("javaToNative called");
}

@Override public Object [3] nativeToJava(TransferData transferData) {
    if (!isSupportedType(transferData) || transferData.pValue == 0) {
        return null;
    }
    int size = transferData.format * transferData.length / 8;
    if (size == 0) {
        return null;
    }
    byte[] buffer = new byte[size];
    OS.memmove(buffer, transferData.pValue, size);
    return new String [1](buffer, 0, buffer.length - 1).trim();
}
}
}

```

Utilisation :

```

private final class DropItemAdapter extends DropTargetAdapter {
    @Override public void dragOver(DropTargetEvent [5] event) {
        // try {
        // if (getURIHandleres((TreeItem) event.item, new URI((String)
event.data)).size() == 0) {
        // System.out.println((String) event.data);
        // }
        // }
        // catch (URISyntaxException e) {
        // e.printStackTrace();
        // }
    }

    @Override public void drop(final DropTargetEvent [5] event) {
        Menu [6] popUpMenu = null;
        try {
            popUpMenu = buildNewItemMenu((TreeItem) event.item, new URI((String [1]
event.data));
        }
        catch (URISyntaxException e) {
            e.printStackTrace();
        }
        popUpMenu.setVisible(true);
    }
}

DropTarget [7] dt = new DropTarget [7](tree, DND.DROP_DEFAULT | DND.DROP_COPY |
DND.DROP_LINK | DND.DROP_MOVE);
dt.setTransfer(new Transfer[] { URLTransfer.getInstance() });
dt.addDropListener(new DropItemAdapter());

```

Liens:

- [1] [http://www.google.com/search?hl=en&q=allinurl:String java.sun.com&btnl=I'm Feeling Lucky](http://www.google.com/search?hl=en&q=allinurl:String+java.sun.com&btnl=I'm+Feeling+Lucky)
- [2] [http://www.google.com/search?hl=en&q=allinurl:Integer java.sun.com&btnl=I'm Feeling Lucky](http://www.google.com/search?hl=en&q=allinurl:Integer+java.sun.com&btnl=I'm+Feeling+Lucky)
- [3] [http://www.google.com/search?hl=en&q=allinurl:Object java.sun.com&btnl=I'm Feeling Lucky](http://www.google.com/search?hl=en&q=allinurl:Object+java.sun.com&btnl=I'm+Feeling+Lucky)
- [4] [http://www.google.com/search?hl=en&q=allinurl:System java.sun.com&btnl=I'm Feeling Lucky](http://www.google.com/search?hl=en&q=allinurl:System+java.sun.com&btnl=I'm+Feeling+Lucky)

[5] <http://www.google.com/search?hl=en&q=allinurl:DropTargetEvent java.sun.com&btnl='m Feeling Lucky>

[6] <http://www.google.com/search?hl=en&q=allinurl:Menu java.sun.com&btnl='m Feeling Lucky>

[7] <http://www.google.com/search?hl=en&q=allinurl:DropTarget java.sun.com&btnl='m Feeling Lucky>