

## aardio 范例: 系统已注册 COM 类名列表（点列标题排序，双击列显示编辑框，右键菜单查看对象文档）

```
//COM 类名列表
import win.ui;
import win.ui.menu;
import fonts.FontAwesome;
/*DSG{
var winform = win.form(text="系统已注册 COM 类名列表（点列标题排序，双击列显示编辑框，右键菜单查看对象文档）";right=1109;bottom=656;bgcolor=16777215;)
winform.add(
listview={cls="listview";left=17;top=40;right=1094;bottom=640;acceptfiles=1;asel=false;bgcolor=16777215;db=1;dl=1;dr=1;dt=1;edge=1;font=LOGFONT(name='SimSun');fullRow=1;gridLines=
plusLoading={cls="plus";left=372;top=188;right=743;bottom=450;color=15780518;db=1;dl=1;dr=1;dt=1;font=LOGFONT(h=-96;name='FontAwesome');iconStyle={font=LOGFONT(h=-96;name='FontAw
plusSearch={cls="plus";left=690;top=6;right=1094;bottom=36;align="right";autohscroll=false;autovscroll=false;border={bottom=1;color=-4144960;dr=1;dt=1;editable=1;font=LOGFONT(h=
)}
/*}}*/

winform.listview.insertColumn("类名",250)
winform.listview.insertColumn("CLSID",250)
winform.listview.insertColumn("控件",70)
winform.listview.insertColumn("描述",70)
winform.listview.insertColumn("路径",-1)

thread.invoke(
function(winform){
import win.reg;
import win.guid;

winform.plusLoading.hide = false;
winform.plusSearch.hide = true;
winform.listview.hide = true;
winform.plusLoading.disabledText = {'\uF254';'\uF251';'\uF252';'\uF253';'\uF250'}

var items = {};
var progIds = {}
var onOpenRegClsId = function(regClsId,clsId){
var regClsIdProgId = regClsId.open("ProgID",true)
if(regClsIdProgId){

var progId = regClsIdProgId.queryValue("")
if(progId && !progIds[progId]){
progIds[progId] = true;

var description;
var regProgId = win.regReader("HKEY_CLASSES_ROOT"+progId)
if(regProgId){
description = regProgId.queryValue("");
regProgId.close();
}

var path
var regServer32 = regClsId.open("InprocServer32",true) || regClsId.open("LocalServer32",true)
if(regServer32){
path = regServer32.queryValue("");
regServer32.close();
}

var clsIdKeys = regClsId.keys();
table.push(items,{progId;clsId;
(table.find(clsIdKeys,"Control")||table.find(clsIdKeys,"ToolboxBitmap32"))?"是":"否";
description||"";
path||"";
});
}
regClsIdProgId.close()
}
regClsId.close()
}

var clsIds = {}
var reg = win.regReader("HKEY_CLASSES_ROOT\CLSID\")
for(clsId,writetime in reg.eachKey()){
if(!string.match(clsId,"%{}")){
continue ;
}

try{
var regClsId = reg.open(clsId,true);
if(regClsId) onOpenRegClsId(regClsId,clsId);
clsIds[clsId] = true;
}
}

var reg = win.regReaderWow64("HKEY_CLASSES_ROOT\CLSID\")
for(clsId,writetime in reg.eachKey()){
if(!string.match(clsId,"%{}")){
continue ;
}

if(clsIds[clsId]){
continue ;
}

try{
var regClsId = reg.open(clsId,true);
if(regClsId) onOpenRegClsId(regClsId,clsId);
}
}

..table.sort(items,function(a) owner[1]<a[1])
winform.listview.items = items;
winform.listview.itemData = items;
winform.listview.itemSortColumn = 1;
winform.plusLoading.disabledText = null;
winform.plusLoading.hide = true;
winform.listview.hide = false;
winform.plusSearch.hide = false;
winform.plusSearch.setFocus();
},winform
)

import win.imageList;
var iml = win.imageList(16, 15);
iml.add('GIF\56\57a \0\15\0\x80\0\0\x80\x80\x80\xff\0\xff\33\xf9\4\0\0\0\0\0\44\0\0\0\0 \0\15\0\0\2\31\x8c
\x8f\xa9\xcb\xed\15\xa3\x9c\xb4n\xfb\x80\xde\56k\xbfA\\\xd7\x84 \x97Y\xea\xca\xb6\xee\11\xc7F\1\0;', 0xff00ff);
winform.listview.setColumnImageList(iml);

var reloadItemData = function(){
var sortColumn = winform.listview.itemSortColumn;
var word = string.trim(winform.plusSearch.text);
var itemData = winform.listview.itemData;
if(word){
word = "@@" + word;
itemData = table.filter(itemData
,lambda(v) string.find(v[1],word) || string.find(v[2],word) || string.find(v[4],word) || string.find(v[5],word) )
}
}
```

```

        if(sortColumn<0){
            var i = math.abs(sortColumn)
            ..table.sort(itemData,lambda(a) owner[i]>a[i])
        }
        else {
            ..table.sort(itemData,lambda(a) owner[sortColumn]<a[sortColumn])
        }

        winform.listview.replaceItems(itemData)
    }
    winform.listview.enableDoubleBuffering();

import com.tlbDoc;
winform.popmenu = win.ui.popmenu(winform); //创建弹出菜单
winform.popmenu.add('创建控件并列出成员',function(id){
    var clsId = winform.listview.getItemText( winform.listview.selIndex,2 );
    if(clsId){
        var obj = com.CreateObject(clsId)
        if(obj){
            import console
            console.setTitle("COM对象:" + winform.listview.getItemText( winform.listview.selIndex,1 ) + " " + clsId)
            com.tlbDoc.dump(obj);
        }
    }
});

import win.ui.grid;
var grid = win.ui.grid(winform.listview);
/*
用户点击列头排序时会触发下面的事件,
column 为序号, desc 参数指定是否倒序, 返回 true 允许当前列排序
*/
grid.onSortColumn = function(column,desc){
    winform.listview.itemSortColumn = desc ?-column : column;
    reloadItemData();
    return true;
}

//右键菜单
grid.onRightClick = function(){
    winform.popmenu.popup();
}

winform.plusSearch.setCueBannerText("输入类名关键字 (支持模式匹配) ")

import win.debounce;
winform.plusSearch.editBox.onChange = win.debounce(function(){
    if(!winform.plusSearch.text) reloadItemData();
},500)

winform.show();
win.loopMessage();

```

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