



Krypton OutlookGrid

Grouper, trier et admirer !

Version personnalisée de la DataGridView du .NET Winforms (C#) avec des capacités de regroupement et tri multiples.

Star (<https://github.com/Cocotteseb/Krypton-OutlookGrid>)

J'aime 1

Accueil (.) > Produits (/products/) > Krypton OutlookGrid (/products/krypton-outlookgrid/) > Documentation (/products/krypton-outlookgrid/documentation/) > Save and restore user's grid configuration

Lecteurs Français

Malheureusement cette page n'est pas encore disponible en français. ☹

Save user's grid configuration

It produces a XML file with the necessary information to restore the grid.

```
private void Save()
{
    OutlookGrid1.PersistConfiguration(Application.StartupPath + "/grid.xml", StaticInfos._GRID_CONFIG_VERSION.ToString());
}
```

Restore user's grid configuration at loading

At loading you can choose trying to restore a configuration file of the grid you've previously saved or you can launch the default configuration.



```
public void SetupDataGridView(JDHSoftware.Krypton.Toolkit.KryptonOutlookGrid.KryptonOutlookGrid Grid, bool RestoreIfPossible)
{
    if (File.Exists(Application.StartupPath + "/grid.xml") & RestoreIfPossible)
    {
        try
        {
            LoadConfigFromFile(Application.StartupPath + "/grid.xml", Grid);
        }
        catch (Exception ex)
        {
            KryptonMessageBox.Show("Error when retrieving configuration : " + ex.Message, "Error", MessageBoxButtons.OK, MessageBoxIcon.Error);
            Grid.ClearEverything();
            LoadDefaultConfiguration(Grid);
        }
    }
    else
    {
        LoadDefaultConfiguration(Grid);
    }
}
```

This is a sort of deserialization. As some actions such as creating columns (many options can be defined here) are specific to each application, the grid deserialization is located out of the main OutlookGrid code.



```

private void LoadConfigFromFile(string file, JDHSoftware.Krypton.Toolkit.KryptonOutlookGrid.Kr
yptonOutlookGrid Grid)
{
    if (string.IsNullOrEmpty(file))
        throw new Exception("Grid config file is missing !");

    XDocument doc = XDocument.Load(file);
    int versionGrid = -1;
    int.TryParse(doc.Element("OutlookGrid").Attribute("V").Value, out versionGrid);

    //Upgrade if necessary the config file
    CheckAndUpgradeConfigFile(versionGrid, doc, Grid, LoadState.After);
    Grid.ClearEverything();
    Grid.GroupBox.Visible = CommonHelper.StringToBool(doc.XPathSelectElement("OutlookGrid/Gro
upBox").Value);
    Grid.HideColumnOnGrouping = CommonHelper.StringToBool(doc.XPathSelectElement("OutlookGri
d/HideColumnOnGrouping").Value);

    //Initialize
    int NbColsInFile = doc.XPathSelectElements("//Column").Count();
    DataGridViewColumn[] columnsToAdd = new DataGridViewColumn[NbColsInFile];
    SandBoxGridColumn[] enumCols = new SandBoxGridColumn[NbColsInFile];
    OutlookGridColumn[] OutlookColumnsToAdd = new OutlookGridColumn[columnsToAdd.Length];
    SortedList<int, int> hash = new SortedList<int, int>();// (DisplayIndex , Index)

    int i = 0;
    IOutlookGridGroup group;
    XElement node2;

    foreach (XElement node in doc.XPathSelectElement("OutlookGrid/Columns").Nodes())
    {
        //Create the columns and restore the saved properties
        //As the OutlookGrid receives constructed DataGridViewColumns, only the parent applic
ation can recreate them (dgvcolumn not serializable)
        enumCols[i] = (SandBoxGridColumn)Enum.Parse(typeof(SandBoxGridColumn), node.Element
("Name").Value);
        columnsToAdd[i] = SetupColumn(enumCols[i]);
        columnsToAdd[i].Width = int.Parse(node.Element("Width").Value);
        columnsToAdd[i].Visible = CommonHelper.StringToBool(node.Element("Visible").Value);
        hash.Add(int.Parse(node.Element("DisplayIndex").Value), i);
        //Reinit the group if it has been set previously
        group = null;
        if (!node.Element("GroupingType").IsEmpty && node.Element("GroupingType").HasElement
s)
        {
            node2 = node.Element("GroupingType");
            group = (IOutlookGridGroup)Activator.CreateInstance(Type.GetType(TypeConverter.Pr
ocessType(node2.Element("Name").Value), true));
            group.OneItemText = node2.Element("OneItemText").Value;
            group.XXXItemsText = node2.Element("XXXItemsText").Value;

```



```

        group.SortBySummaryCount = CommonHelper.StringToBool(node2.Element("SortBySummary
Count").Value);
        if (!string.IsNullOrEmpty((node2.Element("ItemsComparer").Value)))
        {
            Object comparer = Activator.CreateInstance(Type.GetType(TypeConverter.Process
Type(node2.Element("ItemsComparer").Value), true));
            group.ItemsComparer = (IComparer)comparer;
        }
        if (node2.Element("Name").Value.Contains("OutlookGridDateTimeGroup"))
        {
            ((OutlookGridDateTimeGroup)group).Interval = (OutlookGridDateTimeGroup.DateIn
terval)Enum.Parse(typeof(OutlookGridDateTimeGroup.DateInterval), node2.Element("GroupDateInter
val").Value);
        }
    }
    OutlookColumnsToAdd[i] = new OutlookGridColumn(columnsToAdd[i], group, (SortOrder)Enu
m.Parse(typeof(SortOrder), node.Element("SortDirection").Value), int.Parse(node.Element("Group
Index").Value), int.Parse(node.Element("SortIndex").Value));

    i += 1;
}
//First add the underlying DataGridViewColumns to the grid
Grid.Columns.AddRange(columnsToAdd);
//And then the outlookgrid columns
Grid.AddRangeInternalColumns(OutlookColumnsToAdd);

//Add conditionnal formatting to the grid
EnumConditionalFormatType conditionFormatType = default(EnumConditionalFormatType);
IFormatParams conditionFormatParams = default(IFormatParams);
foreach (XElement node in doc.XPathSelectElement("OutlookGrid/ConditionalFormatting").Nod
es())
{
    conditionFormatType = (EnumConditionalFormatType)Enum.Parse(typeof(EnumConditionalFor
matType), node.Element("FormatType").Value);
    XElement nodeParams = node.Element("FormatParams");
    switch (conditionFormatType)
    {
        case EnumConditionalFormatType.Bar:
            conditionFormatParams = new BarParams(Color.FromArgb(int.Parse(nodeParams.Ele
ment("BarColor").Value)), CommonHelper.StringToBool(nodeParams.Element("GradientFill").Valu
e));
            break;
        case EnumConditionalFormatType.ThreeColorsRange:
            conditionFormatParams = new ThreeColorsParams(Color.FromArgb(int.Parse(nodePa
rams.Element("MinimumColor").Value)), Color.FromArgb(int.Parse(nodeParams.Element("MediumColo
r").Value)), Color.FromArgb(int.Parse(nodeParams.Element("MaximumColor").Value)));
            break;
        case EnumConditionalFormatType.TwoColorsRange:
            conditionFormatParams = new TwoColorsParams(Color.FromArgb(int.Parse(nodePara
ms.Element("MinimumColor").Value)), Color.FromArgb(int.Parse(nodeParams.Element("MaximumColo
r").Value)));
            break;
    }
}

```



```

        default:
            conditionFormatParams = null;
            //will never happened but who knows ? throw exception ?
            break;
    }
    Grid.ConditionalFormatting.Add(new ConditionalFormatting(node.Element("ColumnName").Value, conditionFormatType, conditionFormatParams));
}

//We need to loop through the columns in the order of the display order, starting at zero; otherwise the columns will fall out of order as the loop progresses.
foreach (KeyValuePair<int, int> kvp in hash)
{
    columnsToAdd[kvp.Value].DisplayIndex = kvp.Key;
}

activeColumns = enumCols;
}

```

In the life of your application you may want to do some changes to the default configuration grid such as adding a new column. This is why you have a CheckAndUpgradeConfigFile function.

```

private void CheckAndUpgradeConfigFile(int versionGrid, XDocument doc, JDHSoftware.Krypton.Toolkit.KryptonOutlookGrid.KryptonOutlookGrid grid, LoadState state)
{
    while (versionGrid < StaticInfos._GRIDCONFIG_VERSION)
    {
        UpgradeGridConfigToVX(doc, versionGrid + 1, grid, state);
        versionGrid += 1;
    }
}

```



```

private void UpgradeGridConfigToVX(XDocument doc, int version, JDHSoftware.Krypton.Toolkit.KryptonOutlookGrid.KryptonOutlookGrid Grid, LoadState state)
{
    //Do changes according to version
    //For example you can add automatically new columns. This can be useful when you update your application to add columns and would like to display them to the user for the first time.
    switch (version)
    {
        //case 2:
        //    // Do changes to match the V2
        //    if (state == DataGridViewSetup.LoadState.Before)
        //    {
        //        doc.Element("OutlookGrid").Attribute("V").Value = version.ToString();
        //        Array.Resize(ref activeColumns, activeColumns.Length + 1);
        //        DataGridViewColumn columnToAdd = SetupColumn(SandBoxGridColumn.ColumnPrice
2);
        //        Grid.Columns.Add(columnToAdd);
        //        Grid.AddInternalColumn(columnToAdd, new OutlookGridDefaultGroup(null)
        //        {
        //            OneItemText = "Example",
        //            XXXItemsText = "Examples"
        //        }, SortOrder.None, -1, -1);
        //        activeColumns[activeColumns.Length - 1] = SandBoxGridColumn.ColumnPrice2;
        //        Grid.PersistConfiguration(PublicFcts.GetGridConfigFile, version);
        //    }
        //    break;
    }
}

```

In case of a breaking modification of an `IOutlookGridGroup` object (from the base Krypton OutlookGrid or from your own) you can write changes for allowing correct reflection.

```

public class TypeConverter
{
    public static string ProcessType(string FullQualifiedName)
    {
        //Translate types here to accomodate code changes, namespaces and version
        //switch(FullQualifiedName) {
        //    case "KryptonOutlookGrid.SandBox.OutlookGridPriceGroup, KryptonOutlookGrid.SandBox, Version=1.6.0.0, Culture=neutral, PublicKeyToken=null" :
        //        Change with new version or namespace or both !
        //        FullQualifiedName = "TestMe, Version=1.2.0.0, Culture=neutral, PublicKeyToken=null"
        //        break;
        //}
        return FullQualifiedName;
    }
}

```



[Retour \(./products/krypton-outlookgrid/documentation/\)](#)

A propos de nous

JDH Software propose des applications modernes pour le Bureau Windows, les tablettes Windows et les Windows Phone en utilisant le .NET Framework.

Dernières versions

FaviconXT (products/faviconxt/) : 1.0.0

GameXT (products/gamext-desktop/) : 1.0.1

IconXT (products/iconxt/) : 1.5.3

Krypton OutlookGrid (products/krypton-outlookgrid/) : 1.6.1

ProjectXT (products/projectxt/) : 1.0.1 - 1.0.6 (BETA)

Billets récents

GameXT 0.9.11
(<https://www.jdhsoftware.fr/blog/2016/07/gamext-0-9-11/>)

Une nouvelle version de GameXT a été publiée. Plusieurs changements sympathiques au programme. Ajout de deux nouveaux types de données : le format du jeu...

17 JUILLET 2016

(<https://www.jdhsoftware.fr/blog/2016/07/gamext-0-9-11/>) | AUCUN COMMENTAIRE

([HTTPS://WWW.JDHSOFTWARE.FR/BLOG/2016/07/GAMEXT-0-9-11/#COMMENTS](https://www.jdhsoftware.fr/blog/2016/07/gamext-0-9-11/#COMMENTS))



GameXT BETA publique sortie !
(<https://www.jdhsoftware.fr/blog/2016/06/gamext-beta-publique-sortie/>)

L'E3 2016 arrive très très bientôt. Cela va être un moment excitant ! Beaucoup de jeux vidéos vont être annoncés et cela fait autant de...

12 JUIN 2016

(<https://www.jdhsoftware.fr/blog/2016/06/gamext-beta-publique-sortie/>) | AUCUN COMMENTAIRE

([HTTPS://WWW.JDHSOFTWARE.FR/BLOG/2016/06/GAMEXT-BETA-PUBLIQUE-SORTIE/#COMMENTS](https://www.jdhsoftware.fr/blog/2016/06/gamext-beta-publique-sortie/#COMMENTS))

Récemment dans les forums



GameXT First Public BETA !

(<https://www.jdhsoftware.fr/forums/viewtopic.php?t=2046>)

12 JUIN 2016 | **UNE RÉPONSE**

(./FORUMS/VIEWTOPIC.PHP?T=2046)

Krypton OutlookGrid 1.6.0

(<https://www.jdhsoftware.fr/forums/viewtopic.php?t=2045>)

12 JUIN 2016 | **UNE RÉPONSE**

(./FORUMS/VIEWTOPIC.PHP?T=2045)

GameXT 0.9.2 build 5513 available

(<https://www.jdhsoftware.fr/forums/viewtopic.php?t=2043>)

2 FÉVRIER 2015 | **UNE RÉPONSE**

(./FORUMS/VIEWTOPIC.PHP?T=2043)

[FR] Versions privées erreur

(<https://www.jdhsoftware.fr/forums/viewtopic.php?t=2041>)

6 JANVIER 2015 | **2 RÉPONSES**

(./FORUMS/VIEWTOPIC.PHP?T=2041)

[FR] Accès à la base

TheGamesDB.net au travers d'un proxy

(<https://www.jdhsoftware.fr/forums/viewtopic.php?t=2040>)

6 JANVIER 2015 | **2 RÉPONSES**

(./FORUMS/VIEWTOPIC.PHP?T=2040)

© 2005-2024 JDH Software. Tous droits réservés. [Produits \(products/\)](#) | [Support \(support/\)](#) | [A propos \(about/\)](#) | [Sitemap \(sitemaps/\)](#)

✉ ./support/contactus/ 📡 <./blog/feed/> 🐦 <https://twitter.com/jdhsoftware>

📺 <https://www.youtube.com/channel/UCnxKHQ7egL6pRIFnJdeGsHQ>

