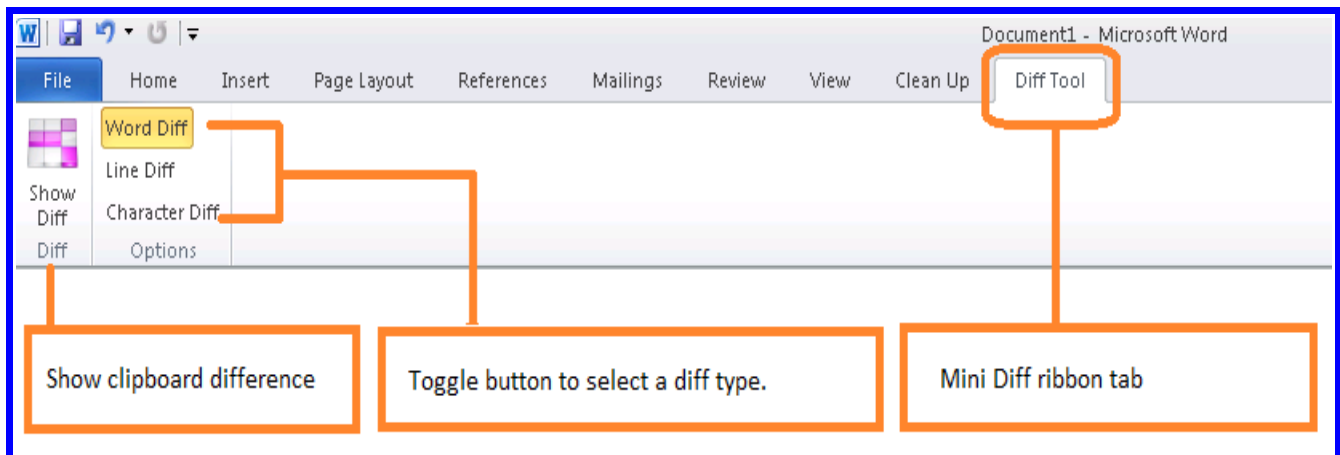


Mini Diff Word Add-on

Mindfire Solutions

Mini Diff

Mini Diff is a MS Word 2010 add-on for text comparison and unlike a file comparison tool, this add-on displays the comparison of the clipboard data . It adds a new Ribbon tab (**Diff Tool**) to the MS Word Ribbon control with the option to select a diff type (Word / Line / Character) and show the text comparison. Using this tool user can compare clipboard text of two intermediate copy operation .



Features

- Mini Diff is used to display difference of clipboard data of two immediate copy operation .
- User can select a diff type (word / line / character) and see the text comparison accordingly.
- Nicely presented visual text comparison
- displays delete count, add count and total number of differences on the bottom of the diff box
- Works across application wide clipboard data.

How it works

- Load the MS word 2010
- Copy some text / paragraph from a word document (or even any other application). This becomes the File 1. Any subsequent copy will be treated as File 2
- Choose a diff type (word / line / character) on the diff tool tab
- Click Show diff

What is next

- Multiple character encoding support
- User configurable colors for difference highlight and many more.

Single document word diff

Word2003Redirector is a plug-in for Microsoft Word2003 developed by Mindfire Solutions that bypasses the normal file saving / opening of Word application and saves files directly in to a centralized SQL Server database as well as allows user to retrieve files from the database. Once installed, this plug-in starts automatically and replaces the file save and open icons on both menu bar and command bar with new icons. While saving a file, the file save dialog allows user to provide a file name and the file content is serialized and saved into database. Similarly, on open command, the file open dialog populates a list of files already saved into database and the selected file is retrieved from database, de-serialized and opened up.

Word2007 Redirector is a plug-in for Microsoft Word 2007 developed by Mindfire Solutions that bypasses the normal file saving / opening of Word application. The plugin saves files directly in to a centralized SQL Server database and allows users to retrieve files from the database. Upon installation, this plug-in starts automatically and replaces the file save and open icons on both menu bar and command bar with new icons. During save operation, the file save dialog allows user to provide a file name. The file content is serialized and saved into database. Similarly, on open command, the file open dialog populates a list of files already saved into database and the selected file is retrieved from database, de-serialized and opened up.

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---	--

Deleted: 15 Added: 17 32 difference(s) found

Pages: 1 of 2 Words: 13 / 324 150%

This paragraph is copied first and hence treated as the first file by the plugin.

Diff box displays the text difference, deleted word count, added word count and total number of differences found .

This paragraph is copied subsequently and treated as the second file by the Plugin . To change the order, copy the first paragraph once again .

Single document character diff

Word2003Redirector is a plug-in for Microsoft Word 2003 developed by Mindfire Solutions that bypasses the normal file saving / opening of Word application and saves files directly in to a centralized SQL Server database as well as allows user to retrieve files from the database. Once installed, this plug-in starts automatically and replaces the file save and open icons on both menu bar and command bar with new icons. While saving a file, the file save dialog allows user to provide a file name and the file content is serialized and saved into database. Similarly, on open command, the file open dialog populates a list of files already saved into database and the selected file is retrieved from database, de-serialized and opened up.

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---	--

Deleted: 34 Added: 43 77 difference(s) found.

Page: 1 of 2 Words: 13/924 15%

Shows character diff between clipbord text

displays number of charactes deleted, number of charactes added and total difference found .

Code comparison between Visual Studio and Word

The image shows a comparison of code between Visual Studio and Microsoft Word. The main window is the Visual Studio DiffTool, which compares the code in `ClipboardData.cs` (left) with a snippet from a Word document (right). The code in both files is identical, showing a `ClipboardData` class with a `Data` property and a `HasValue` property.

The `ClipboardData` class in `ClipboardData.cs` is defined as follows:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

namespace DiffTool
{
    public class ClipboardData
    {
        public string Data { get; set; }

        public bool HasValue
        {
            get
            {
                if (string.IsNullOrEmpty(this.Data))
                    return false;

                return true;
            }
        }
    }
}
```

The code snippet from the Word document is identical, but the `ClipboardData` class is marked as `Private` and the `Data` property is marked as `Protected`.

The `Diff` window below shows a side-by-side comparison of the code. The code is highlighted in red and green to indicate differences. The `Diff` window shows the following code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
namespace DiffTool
{
    public class ClipboardData
    {
        public string Data { get; set; }
        public bool HasValue {
            get
            {
                if (string.IsNullOrEmpty(this.Data))
                    return false;
                return true;
            }
        }
    }
}

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.IO;
namespace DiffToolModified
{
    private class ClipboardData
    {
        Protected string Data { get; set; }

        public bool HasValue
        {
            get
            {
                if (string.IsNullOrEmpty(this.Data))
                    return false;

                return true;
            }
        }
    }
}
```

Three callout boxes explain the workflow:

- Visual studio code copied to clipboard
- Code different is shown on the diff box
- Code snippet from Word document is copied to clipboard

SQL query comparison between SQL Management Studio and Word

The image displays a side-by-side comparison of two SQL queries. On the left, the Microsoft SQL Server Management Studio (SSMS) window shows the original query. On the right, the Microsoft Word document shows the same query with a diff overlay. The diff tool highlights changes in red and green. A central diff box shows the differences between the two versions. Three callout boxes provide context: the left one indicates the source of the original query, the middle one points to the diff box, and the right one indicates the source of the modified query.

```
USE [CommerceZone_productCatalog]
GO
/***** Object: StoredProcedure [dbo].[ctlg_AddPricingCategory]    Script Date: 03/23/2012 13:07:40 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER OFF
GO
ALTER PROCEDURE [dbo].[ctlg_AddPricingCategory]
(
    @CatalogName nvarchar(85), -- The name of the catalog
    @ProductOld int, -- The ProductID
    @CategoryOld int, -- The categoryOID, in earlier formats Pricing categories are represented using IDs
    @CategoryName nvarchar(128) = NULL, -- The CategoryName . In the current format the PrimaryParent category is represented using name
)
AS
BEGIN
    SET NOCOUNT ON
    IF @CategoryOld > 0 -- Importing from an earlier format and we have a valid oid
    BEGIN
        -- Get the category name from the oid
        DECLARE @Query_tmp nvarchar(300)
        SET @Query_tmp = N'SELECT @CategoryName = CategoryName From ' + dbo.ctlg_func_GetCatalogObjectName(N'CMV', @CatalogName, NULL) +
        N' WHERE oid = @CategoryOld'
        EXEC sp_executesql @Query_tmp, N'@CategoryOld int, @CategoryName nvarchar(128) OUT',
            @CategoryOld, @CategoryName OUT
    END
    EXEC dbo.ctlg_SetPricingCategory @CatalogName, @ProductOld, @CategoryName
END
```

```
USE [CommerceZone_productCatalog]
GO
/***** Object: StoredProcedure [dbo].[ctlg_AddPricingCategory]    Script Date: 03/23/2012 13:07:40 *****/
SET ANSI_NULLS ON
GO
SET QUOTED_IDENTIFIER ON
GO
CREATE PROCEDURE [dbo].[ctlg_AddPricingCategoryNew]
(
    @CatalogName nvarchar(85), -- The name of the catalog
    @ProductOld int, -- The ProductID
    @CategoryOld int, -- The categoryOID, in earlier formats Pricing categories are represented
    @CategoryName nvarchar(128) = NULL, -- The CategoryName . In the current format the PrimaryParent
    using name
)
AS
BEGIN
    SET NOCOUNT ON
    IF @CategoryOld > 0 -- Importing from an earlier format and we have a valid oid
    BEGIN
        -- Get the category name from the oid
        DECLARE @Query_tmp nvarchar(600)
        SET @Query_tmp = N'SELECT @CategoryName = CategoryName From
        ' + dbo.ctlg_func_GetCatalogObjectName(N'CMV', @CatalogName, NULL) +
        N' WHERE oid = @CategoryOld'
        EXEC sp_executesql @Query_tmp, N'@CategoryOld int, @CategoryName nvarchar(128) OUT',
            @CategoryOld, @CategoryName OUT
    END
    EXEC dbo.ctlg_SetPricingCategory @CatalogName, @ProductOld, @CategoryName, @CategoryDesc
END
```

SQL query copied from SQL management studio

Query difference is displayed on the diff box

SQL query copied form word document