

CSDiff 4.1

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1 Getting Started

1.1 Introduction

ComponentSoftware Diff (CSDiff) is a free, advanced file-difference analysis tool for Microsoft Windows. CSDiff is a great asset to anyone in need of analyzing changes which have been made between two revisions of the same file or folder. CSDiff is commonly used when analyzing program source files, HTML documents and MS-Word documents.

Key features in CSDiff:

- Rich text display provides a unique, intuitive difference analysis.
- Change detection by line, by word or by character.
- Smart white-space difference analysis option.
- Enhanced folder difference analysis reports, including: HTML reports, XML reports, filters and optional links to file-level analysis.
- Analysis results in a single screen, making it ideal for printout.
- Folder comparison window sorted by any key.
- HTML reports for both single-file and folder analysis.
- Print and print preview of difference analysis.
- Analysis of MS-Word documents. (MS-Word version prior to MS-Word 2002 required)
- Extended documentation in both WinHelp and HTMLHelp formats.
- Enhanced online help - help files available downloaded in various formats (PDF, RTF and more).
- **Freeware** -- CSDiff may be used completely free of charge

For printing the entire user guide, we recommend that you download the **PDF** version of the guide.

<http://www.ComponentSoftware.com/Products/csdiff/download.htm>

CSDiff is part of CS-RCS -- GNU RCS compatible version control system that is fully integrated with Windows. CS-RCS is free for individuals. For full details, visit the CS-RCS home page at:

<http://www.ComponentSoftware.com/Products/RCS>

1.2 What's new in version 4.1

New features in version 4.1:

- Improved navigation possibilities
- Selective navigation.

For users of CS-RCS Pro v3.0 :

- Accept and/or Reject changes
- Edit mode permitting editing output file

New features in version 4.0:

- Greatly improved performance/speed on large files.
- 'Save as Diff' option, print diff format to file.
- 'Append' option for diff output from commandline. Place multiple diff comparisons in a single file
- View changed lines only.
- Select amount of "wrapping lines" around change when only viewing changed lines.
- XML reports from commandline.
- Exchange Files - switch comparison order.
- Recalculate, in case files have been modified since comparison.
- Remembers last 10 compared documents/folders.

- Support for earlier unrecognized characters.
- Added shortcuts for quick access to CSDiff features.
- Additional minor improvements and bug fixes.

Changes/Fixes:

- Change in commandline syntax.
 - /Ohoutfile - Generate a HTML report in Friendly Format to outfile.htm (Document Mode)
 - /Otoutfile - Generate a text output to file outfile.txt (Folder Mode)
 - /Odoutfile - Generate a text output in Diff Format to outfile.txt (Document Mode)
 - /Oaoutfile - Generate a text output in Diff Format and append to end of outfile.txt (Document Mode)
 - /Oxoutfile - Generate a XML report to file outfile.xml (Folder Mode)
- Fixed problem with problematic characters like 'ÿ'.
- Fixed "Ignore Caps" in lines with multi changes
- Fix for unix style files
- Added error message if not compatible with MS-Word.

1.3 Installation and Activation

Requirements:

Windows 95/98/Me/XP or Windows NT/2000 (NT 3.51 & 4.0 or later).
Analysis of MS-Word documents requires MS-Word.

Installation:

Run CSDiff41.exe from a temporary folder and follow the instructions in order to install CSDiff to the desired location.
(e.g., C:\Program Files\CSDiff)

To uninstall CSDiff:

Run Uninstall.exe from your CSDiff program folder for the program and all its components to be uninstalled
or
click Start, Settings and then Add/Remove programs and select CSDiff from the list of installed programs.

1.4 Technical Support

If you encounter any problem with CSDiff please email the problem description and the problematic files to ComponentSoftware at: <http://www.componentsoftware.com/asp/profile/MainSupport.asp>

For up-to-date CSDiff information and new version notification, visit the CSDiff home page at <http://www.ComponentSoftware.com/Products/csdiff> and join the CSDiff mailing list.

1.5 License

CSDiff Version 4.1

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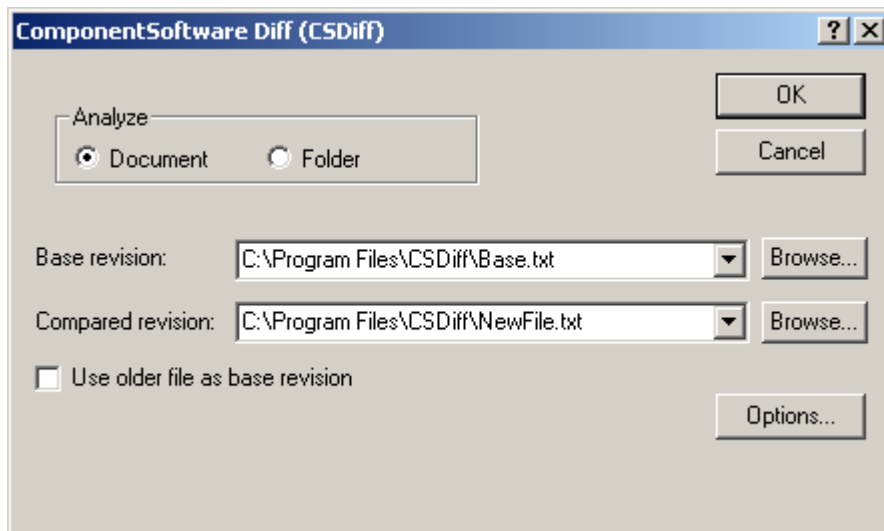
Separation of Components

This software product is licensed as a single product. Its component parts may not be separated for any use or distribution.

2 Document Mode Operation

2.1 Introduction

When CSDiff is activated, the following dialog-box appears:



The **Analyze** section is used to select the analysis mode:

- Select **Document** to compare two documents. This mode is explained in this chapter.
- Select **Folder** to compare two folders. This mode is explained in the [Folder Mode Operation](#) chapter.
- Select **Options...** to go to the [Options dialog box](#) which allows you to customize the CSDiff analysis and display methods.

This dialog box includes the following properties:

- *Base revision* – Specify the base (older) revision of the document. Click **Browse...** to browse for this file.
- *Compared revision* – Specify the revised (newer) revision of the document. Click **Browse...** to browse for this file.
- *Use older file as base revision* – When selected, CSDiff will examine the documents' modification time, and switch the base revision and the compared revision, if needed.

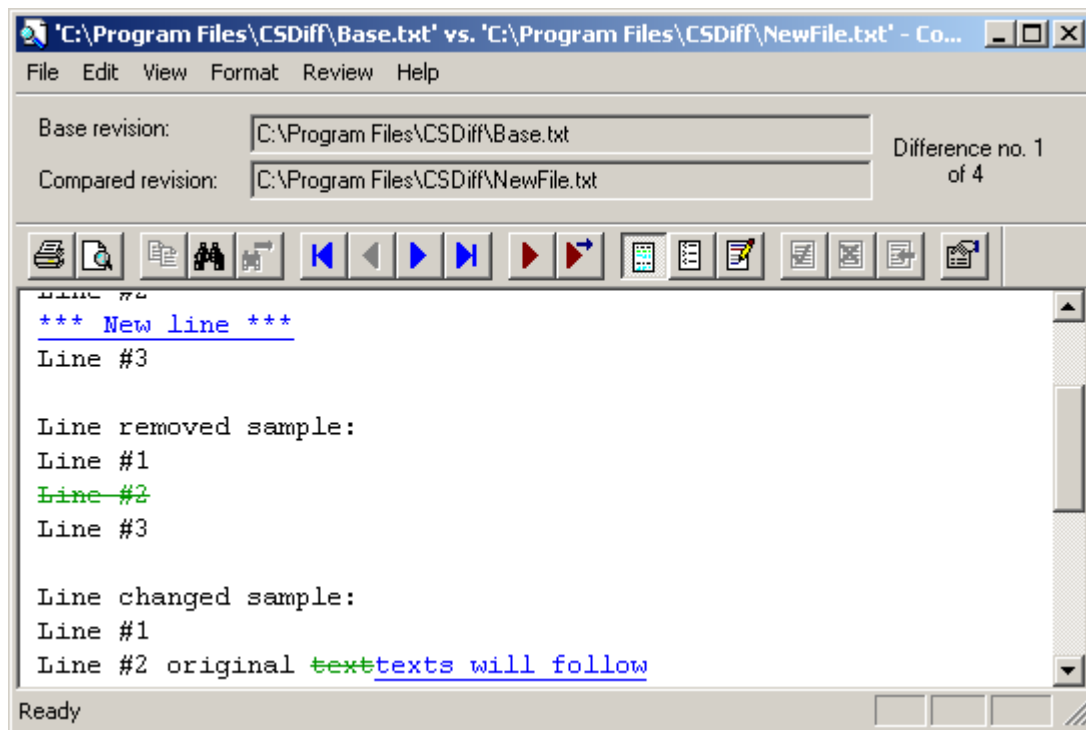
Click **OK** to perform the analysis.

Tip: If you run CSDiff for the first time, analyze the *Base.TXT* and *NewFile.TXT* sample files, which are located in the CSDiff directory, as they illustrate the full functionality of CSDiff.

2.2 Document Analysis Window

When analyzing two documents, the following screen appears:

(The files *Base.txt* and *NewFile.txt* used in this example can be found in the CSDiff directory)



By default, CSDiff uses the following semantics to emphasize changes:

- Unchanged text appears in normal black text.

- Text added to the *Compared Revision* appears in [blue/underline](#) text.
- Text removed from the *Compared Revision* appears in [green/strikeout](#) text.

At the top right hand corner you are constantly updated about which change is currently 'selected' and how many differences there are in total between the two compared documents.

2.3 File Menu

The **File** menu enables you to perform the following:

- Click **New Window** to open a new window of CSDiff.
- Click **Save as HTML** to save the current analysis as HTML document. For further details refer to [HTML Document Report](#) in the CSDiff Reports chapter.
- Click **Save as Diff** to save the current [Diff Format](#) analysis as text document.
- Click **Print Preview** to preview the analysis before printing.
- Click **Print** to print the current analysis.
- Click **Settings** to configure the activation methods of CSDiff. (Refer to [Settings Dialog](#) in this chapter.)
- Click **Exit** to close CSDiff

2.4 Edit Menu

The **Edit** menu enables you to perform the following:

- Click **Copy** to copy the selected text to the clipboard.
- Click **Select all** to select all text within document.
- Click **Find** to find specific text within the document.
- Click **Find Next** to find the next occurrence of the text within the document.

2.5 View Menu

The **View** menu enables you to perform the following:

- Click **Recalculate** to analyze the open files again. This is useful in cases where the compared files have been modified after the CSDiff analysis has been performed, and one wants to update the comparison.
- Click **Exchange Files** to switch the base and revised files.
- Click **First Change** to jump to the first change.
- Click **Next Change** to jump to the next change.
- Click **Previous Change** to jump to the previous change.
- Click **Last Change** to jump to the last change.
- Click **Current Change** to return the cursor to the currently selected change.
- Click **Next Change From Here** to move to the next change after the current cursor position.
- Click **Base Revision** to view the base revision. CSDiff uses the Windows *Open* command to view the file.
- Click **Compared Revision** to view the compared revision. CSDiff uses the Windows *Open* command to view the file.
- Click **Toolbar** to view the CSDiff toolbar.
- Click **Status Bar** to view the CSDiff status bar.

2.6 Format Menu

The **Format** menu enables you to perform the following:

- Click **Friendly Format** to display analysis using rich-text friendly format (default mode).
- Click **Diff Format** to display analysis using traditional [GNU DIFF text format](#). This format is explained later in this chapter.
- Click **Edit Format** to change to the edit view which allows you to make changes to the displayed text. (**For users of CS-RCS Pro v3.0 only**) (Refer to [Edit Menu](#) later in this chapter.)
- Click **Options** to customize the CSDiff analysis and display methods. (Refer to [Options Dialog](#) later in this chapter.)
- Click **Fonts** to customize the CSDiff display fonts. (Refer to [Fonts Dialog](#) later in this chapter.)

2.7 Review Menu

The **Review** menu enables you to perform the following:

(**This feature is available for users of CS-RCS Pro v3.0 only**)

- Click **Accept Change** to accept the currently selected change.
- Click **Reject Change** to reject the currently selected change.
- Click **Accept All** to accept all changes in the current document.
- Click **Reject All** to reject all changes in the current document.
- Click **Save Result** to save the edited output to a text file. Please note that all changes have to be accepted/rejected in order to save to file.

Note: Changes made in edit mode are not applied to the file until '**Save Result**' is selected.

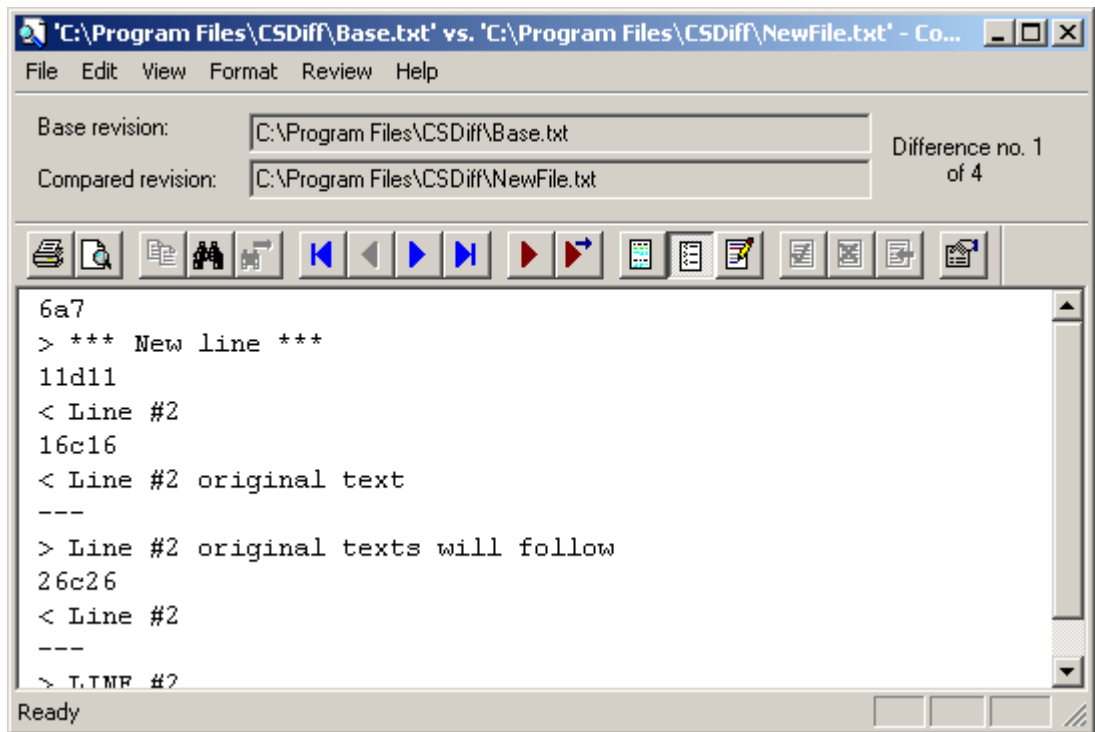
Hint: Select '*Current Change*' from the '*View*' menu before accepting or rejecting a change to make sure that you have selected the right change.

The accept, reject and edit functions cannot be undone in the current edit view once performed. In order to restart the edit session, simply select '*Recalculate*' from the '*View*' menu.

2.8 The Diff Formats

The **Format** menu enables you to select the display formats:

- Click **Friendly Format** to display analysis using rich-text friendly format (default mode).
- Click **Diff Format** to display analysis using traditional *GNU DIFF* text format. The following analysis appears:



The normal output contains lines of these forms:

```
n1 a n3,n4
n1,n2 d n3
n1,n2 c n3,n4
```

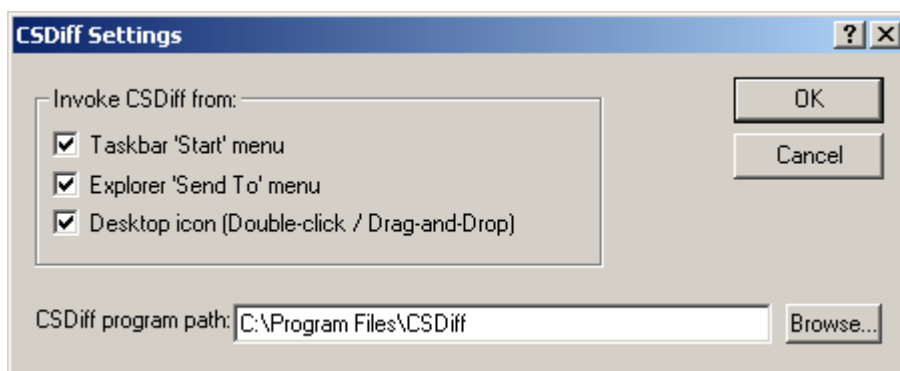
These lines resemble Unix *ed* utility commands to convert the base file into the revised file. (Identical pairs are abbreviated as a single number.)

Each of these lines are followed by all the lines that are affected in the base file flagged by <, then all the lines that are affected in the revised file flagged by >.

2.9 Settings Dialog Box

The **Settings** dialog box allows you to configure the activation methods of CSDiff. To open the **Settings** dialog, from the **File** menu, click **Settings**.

The **Settings** dialog box appears:



The **Settings** dialog box allows you to define the following:

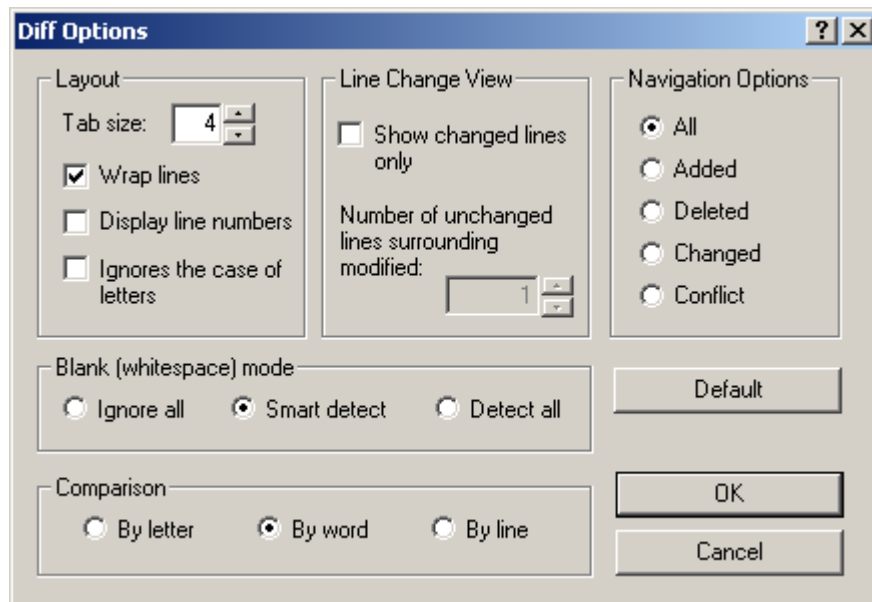
- In the Invoke **CSDiff from** section, the following options are available:
 - Select **Taskbar 'Start' menu** to activate CSDiff from the *Windows Explorer Start* menu.
 - Select **Explorer 'Send To' menu** to create a *Windows Explorer Send to* menu shortcut. If you select this option, you may select one or two files within the *Windows Explorer* and activate CSDiff by selecting **CSDiff** on the **Send to** menu (right-click).
 - Select **Desktop icon** to create a desktop shortcut to CSDiff. You may double-click on the icon or drag-and-drop one or two files to the CSDiff desktop icon.
- Make sure the **CSDiff program path** property points to the folder used to hold the CSDiff program.

Click **OK** to save the new settings.

2.10 Options Dialog Box

The **Options** dialog box allows you to customize the CSDiff analysis and display methods. To open the **Options** dialog, from the **Format** menu, click **Options**.

The **Options** dialog box appears:



The **Options** dialog box allows you to define the following:

- **Tab size** – Specify the number of characters used for tab-stop position (distance from left).
- **Wrap lines** – Select this option to wrap long lines to the window width.
- **Display line numbers** – Select this option to display line numbers.
- **Ignores the case of letters** – Select this option to ignore changes to letter-case. For example, *A* will compare equal to *a*.
- In the **Blanks (white space) mode** section, select one of the following:
 - **Ignore all** – All changes caused by blanks will be ignored. For example, *a=b* will compare

- equal to $a = b$.
- **Smart detect** – changes caused by blanks will be examined. For example, `a_=_b1` will compare equal to `a_=_b1` but will not to `a= b_1`.
- **Detect all** – All changes caused by blanks will be considered.
- In the **Comparison** section, click one of the following:
 - **By letter** – Changes are displayed on a letter basis. For example, when a word is capitalized the analysis will display: **A**pple
 - **By word** – Changes are displayed on word basis. For example, when a word is capitalized, the analysis will display: **Apple**apple
 - **By line** – Changes are displayed on line basis. A new line containing the change will be added after the original line.
- **Line Change View** – Specify whether to show the whole document or changed lines only. (Refer to [Line Change View](#) later in this chapter)
- **Navigation Options** – Specify between which type of changes to navigate. Once selected, the 'View Change' buttons will only navigate you between the type of changes specified here.

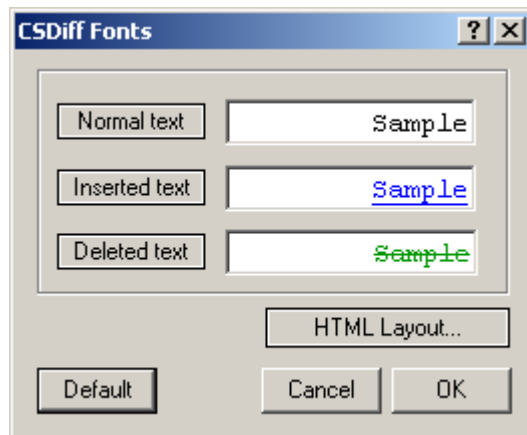
Click **OK** to save the new settings.

2.11 Fonts Dialog Box

The **Fonts** dialog box allows you to customize the fonts used by CSDiff when displaying the difference analysis.

To open the **Fonts** dialog, from the **Format** menu, click **Fonts**.

The **Fonts** dialog box appears:



The **Fonts** dialog box allows you to define the following:

- Click **Normal text** to configure the font used to display unmodified text.
- Click **Inserted text** to configure the font used to display text added in the revised document.
- Click **Deleted text** to configure the font used to display text removed in the revised document.
- Click **Default** to restore the CSDiff defaults.
- Click **HTML Layout...** to define the colors for the HTML output. (Refer to [HTML Layout Dialog](#) later in this chapter.)

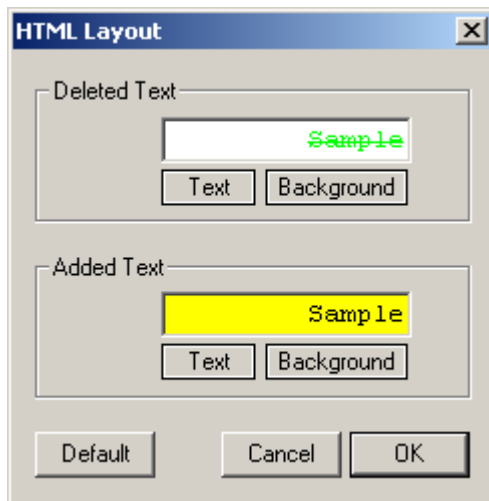
Click **OK** to save the new settings.

2.12 HTML Layout Dialog

The **HTML Layout** dialog box allows you to customize the fonts used by CSDiff when saving a comparison as HTML.

To open the **HTML Layout** dialog, access the [Fonts Dialog](#) from the **Format** menu, and click on **HTML Layout**.

The **HTML Layout** dialog box appears:

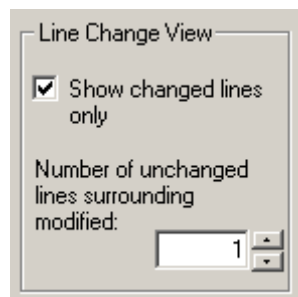


The **HTML Layout** dialog box contains two sections - one for *deleted text* format and one for *inserted text* format. Each section lets you define the following:

- Click **Text** to configure the font used to display deleted/inserted text in the revised document.
- Click **Background** to configure the background color used for the deleted/inserted text in the revised document.
- Click **Default** to restore the CSDiff defaults.

2.13 Line Change View

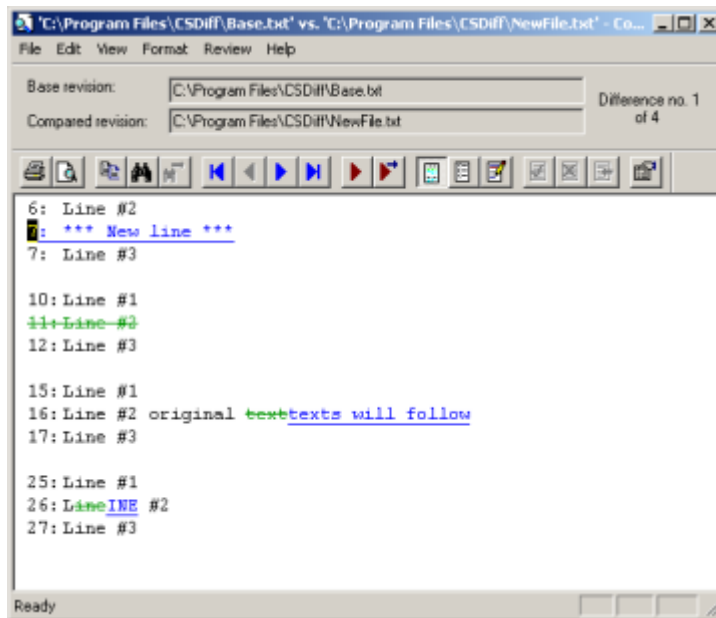
In the [Options dialog](#) you will find a section called **Line Change View**.



When this option is turned on, only the lines containing changes will be shown (Friendly format). In addition, the possibility is given to show "wrapping lines". These are the unchanged lines which

surround those containing changes. By selecting 0, only the changed lines will be shown.

In the example below, 1 surrounding line has been selected.



2.14 Document Analysis Toolbar

The toolbar in the **Document Analysis** screen gives you quick access to the most important features.



Print - Prints the current report



Print Preview - Displays the document before it is printed



Copy - Copies the selected text to the clipboard



Find - Finds a specified word/sentence



Repeat Find - Repeats the previous find operation



First Change - Moves the cursor to the first change in the document



Previous Change - Moves the cursor to the previous change that was found



Next Change - Moves the cursor to the next change that was found



Last Change - Moves the cursor to the last change in the document



Current Change - Moves the cursor to the last currently selected change.



Next Change From Here - Moves the cursor to next change after the current cursor position.



Friendly Format - Displays the analysis in an easy-to-read format



Diff Format - Displays the analysis in UNIX Diff format



Edit Format - Open the [edit view](#) which allows you to make changes to the displayed text. (***This feature is available for users of CS-RCS Pro v3.0 only***)



Accept Change - Accept the currently selected change. (***This feature is available for users of CS-RCS Pro v3.0 only***)



Reject Change - Reject the currently selected change. (***This feature is available for users of CS-RCS Pro v3.0 only***)



Edit Text - Edit highlighted text, changes or insert text. (***This feature is available for users of CS-RCS Pro v3.0 only***)



Options - Opens the [Options dialog](#).

For more information about the edit features, please refer to 'Edit Mode Operations'

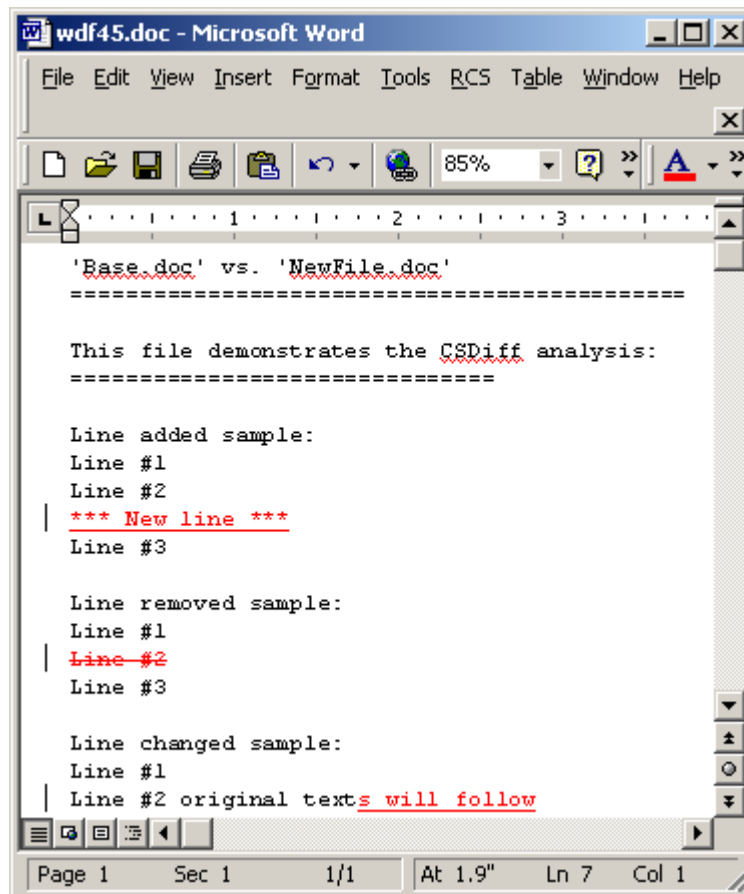
2.15 MS-Word Documents Analysis

When comparing two MS-Word documents, the resulting output is opened as a temporary document in MS-Word.

MS-Word will use it's own semantics to highlight the altered areas.

These semantics are:

- Unchanged text appears in normal black text.
- Text added to the *Compared Revision* appears in **red/underline** text.
- Text removed from the *Compared Revision* appears in **red/strikeout** text.



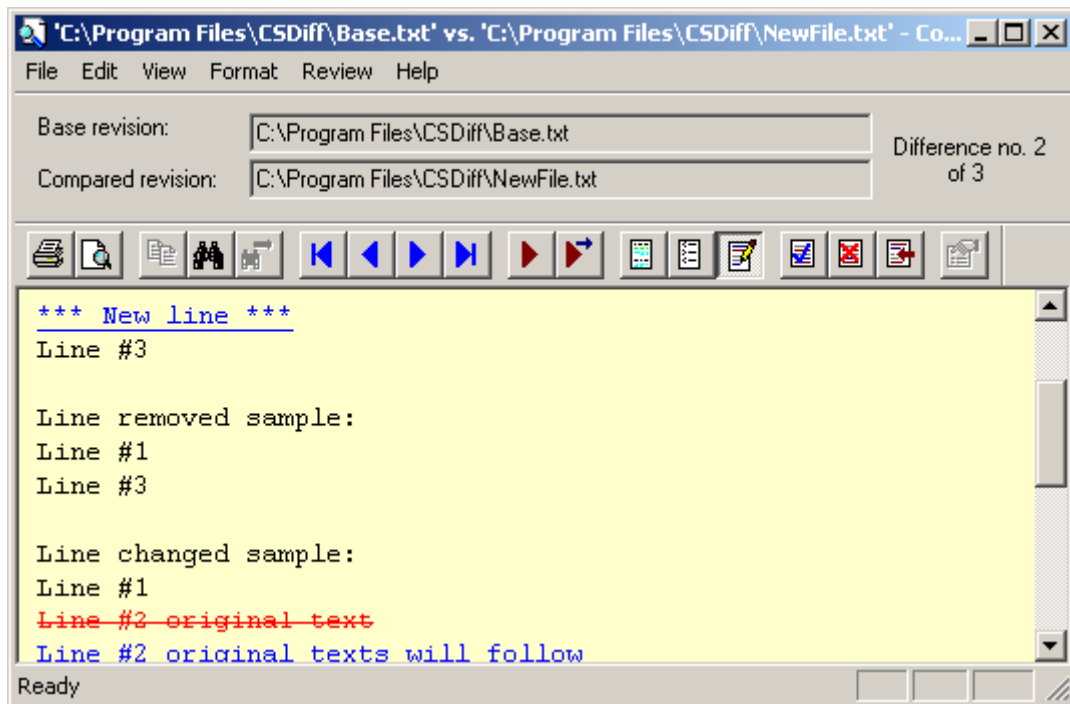
Tip: You may use MS-Word *Reviewing* toolbar to navigate between changes. To activate it, right click on the MS-Word toolbar area and check the *Reviewing* option.

2.16 Edit Mode

2.16.1 Introduction

The **Edit Mode** in CSDiff gives the possibility of Accepting and Rejecting changes, editing changes before converting them to normal text and inserting text.

(This feature is available for users of CS-RCS Pro v3.0 only)



Accept a change

In order to accept a change, you can either navigate to the change, or you can place the cursor anywhere within the change and press 'Accept Change'.

Reject a change

In order to reject a change, you can either navigate to the change, or you can place the cursor anywhere within the change and press 'Reject Change'.

Edit a change

In order to edit a change yourself before applying the modified text, you can either navigate to the change, or you can place the cursor anywhere within the change and press 'Edit'. *This feature uses the [Text Edit Dialog](#) for editing when selecting Added or Deleted lines. When editing Changed lines, the [Section Editor](#) is used.*

Insert text

To insert text at any point outside of the changes marked by CSDiff, simply place the cursor at the desired point and press "Text edit. *This feature uses the [Text Edit Dialog](#) for editing.*

Change text

You can change text in CSDiff screen by simply highlighting the text and selecting 'TextEdit'. When selecting text to edit, please make sure that the selection does not contain partial change-sections. *This feature uses the [Section Editor](#) for editing.*

Note: Changes made in edit mode are not applied to the file until 'Save Result' is selected.

Hint:

- In order to make minor changes to the document before checking-in, perform 'Accept All' and then use the 'Text Edit' feature to make minor changes.

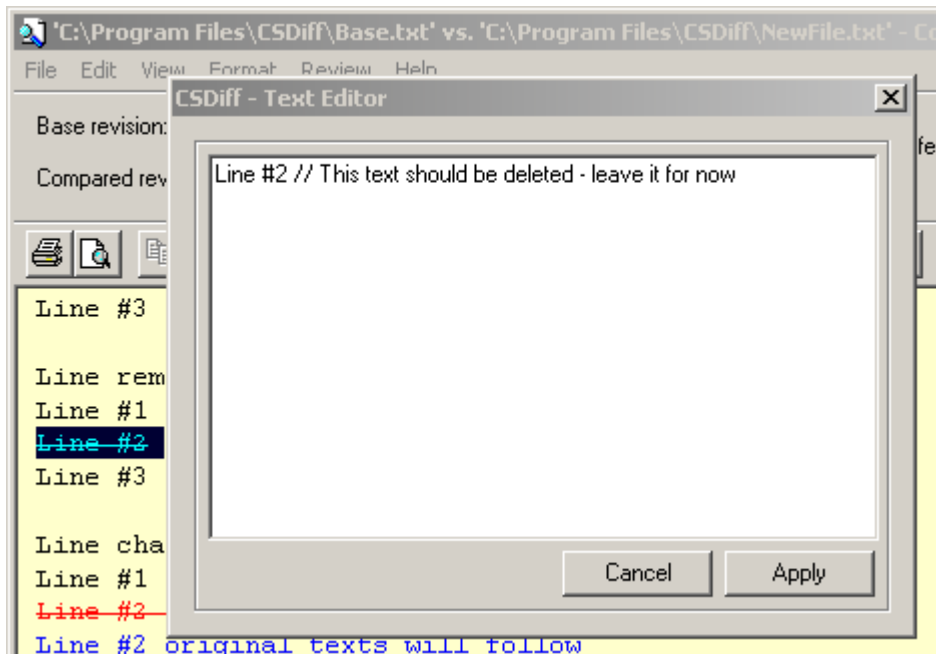
- Select 'Current Change' from the 'View' menu before accepting or rejecting a change to make sure that you have selected the right change.

The accept, reject and edit functions cannot be undone in the current edit view once performed. In order to restart the edit session, simply select *'Recalculate'* from the *'View'* menu.

2.16.2 Text Editing

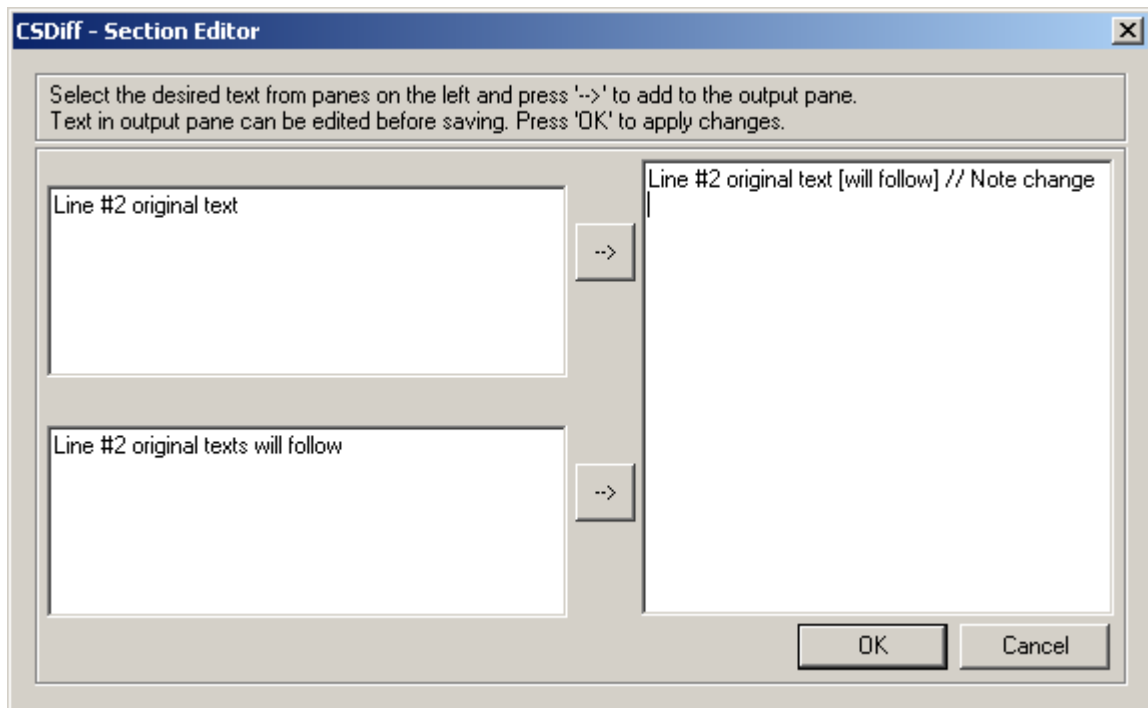
The **Text Edit** dialog lets you type in new text or edit already selected text before applying the changes to the document.

(This feature is available for users of CS-RCS Pro v3.0 only)



In the **Section Editor** you may select the desired sections of two versions of text, edit the output and apply to document.

(This feature is available for users of CS-RCS Pro v3.0 only)



2.17 Document Shortcuts

File Shortcuts

New Window	Ctrl+N
Save as HTML	Ctrl+S
Save as Diff	Ctrl+D
Print	Ctrl+P
Exit	Ctrl+Q

Edit Shortcuts

Copy	Ctrl+C
Select All	Ctrl+A
Find	Ctrl+F
Find Next	F3

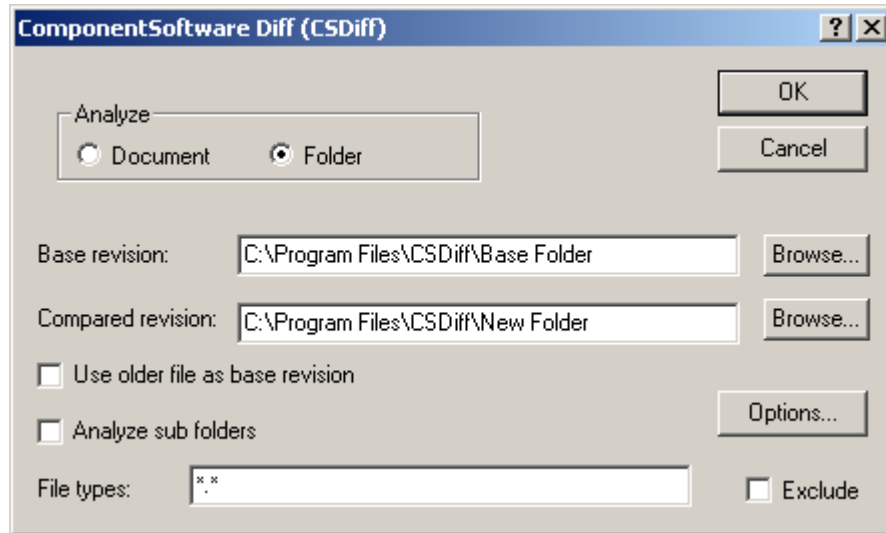
View Shortcuts

Recalculate	F5
First Change	F4

3 Folder Mode Operation

3.1 Introduction

When CSDiff is activated, the following dialog-box appears:



The **Analyze** section is used to select the analysis mode:

- Click **Document** if you want to compare two documents. This mode is explained in the [Document Mode Operation](#) chapter.
- Select **Folder** if you want to compare two folders. This mode is explained in this chapter.

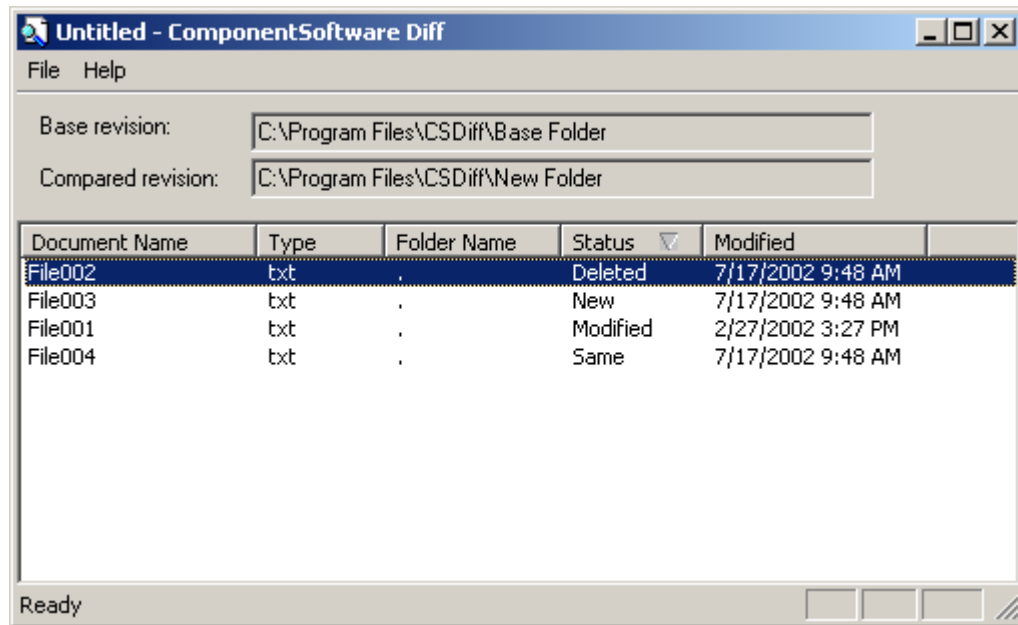
This dialog box includes the following properties:

- Select **Options...** to go to the [Options dialog box](#) which allows you to customize the CSDiff analysis and display methods.
- **Base revision** – Specify the base (older) folder. Click **Browse...** to browse for this folder.
- **Compared revision** – Specify the revised (newer) folder. Click **Browse...** to browse for this folder.
- **Use older file as base revision** – When selected, CSDiff will examine the documents modification time, and set the older of the two as base revision file.
- **Analyze sub folders** – Select to compare sub-folders as well.
- **File types** - Define file types (extensions) to include on the difference analysis. Use ; (semicolon) to specify several file types. For example, if you specify *.txt;*.doc, only files with txt extension or doc extension are analyzed.
- **Exclude** - Select this option to exclude the specified file types from the difference analysis. For example, by selecting this option and entering *.txt;*.doc, all files except those ending with .doc and .txt will be included.

Click **OK** to perform the analysis.

3.2 Folder Analysis Window

When analyzing two folders, the following window appears:



You can sort the list as you wish by clicking on the desired column header. Click again on the same column header to reverse the sort order. You can also right-click or double-click on any document to open the file or perform a detailed difference analysis. CSDiff uses the Windows *Open* command to open files.

The folder analysis window displays the following document properties:

- **Document Name** – The file's name.
- **Type** – The file's extension.
- **Folder Name** – The path of the sub-folder that holds the file (only when *analyze sub-folders* is selected).
- **Status** – The file's analysis status. The possible statuses are listed below.
- **Modified** – The date and time of the last changes made to the file.

Analyzed documents may display one of the following RCS statuses:

- **Same** – The document is identical in both folders
- **Modified** – The document exists in both folders. However, it has been modified.
- **New** – The document has been added to the compared (revised) folder.
- **Deleted** – The document no longer exists in the compared (revised) folder.

3.3 File Menu

The **File menu** enables you to perform the following:

- Click **New Window** to open a new window of CSDiff.
- Click **Open** to perform a detailed difference analysis on the selected file that has been *modified*.

If the file is *New* or *Deleted*, this command displays the content of the file. CSDiff uses the Windows *Open* command to open files.

- Click **Report** to generate the various CSDiff reports. For further details refer to the [CSDiff Reports](#) chapter.
- Click **Exit** to quit CSDiff.

3.4 Folder Shortcuts

File Shortcuts

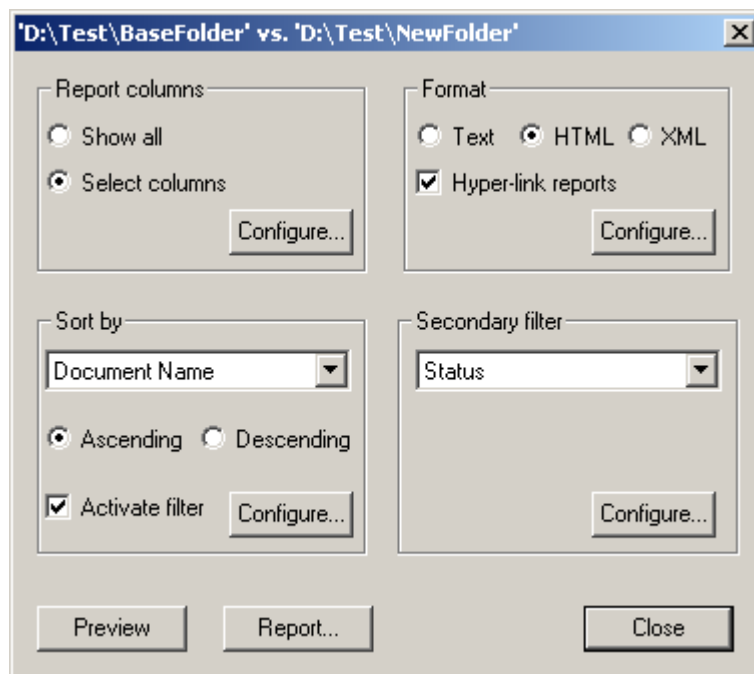
New Window	Ctrl+N
Open	Ctrl+O
Report	Ctrl+R
Exit	Ctrl+Q

4 CSDiff Reports

4.1 Reports Generator Dialog Box

The **Reports Generator** dialog box allows you to generate many reports in folder analysis mode. To open the **Reports Generator** dialog, from the **File** menu, click **Report**.

The **Reports Generator** dialog box appears:



The **Reports Generator** dialog box allows you to define the following:

Report Columns

- Check **Show all** to report all columns

- Check **Select Columns** to decide what columns will be included in the report and in what order. Click on the **Configure** button to enter the [Select Columns Dialog](#) and specify which columns to include in the report.

Format

- Choose **Text** for text reports. Any Windows editor, spreadsheet, database or report-generator can import text reports.
- Choose **HTML** for HTML reports. These reports can be examined and printed by using any web-browser, and can easily be published on the Web.
- Choose **XML** to generate a XML report. This is useful for exporting to applications which process XML data input.
- Check [Hyper-links reports](#) to enhance the report by inserting links to related information. (This feature is enabled only for reports in HTML and XML format).
- Choose **Configure** - to configure the hyper-links report. This feature is explained in the [Configure Hyper-link Reports](#) section.

Sort by

- Select the sort column on the **Sort by** list and Choose **Ascending** or **Descending** as desired.
- Check **Activate filter** to report a range according to the chosen sorting column. Click on the **Configure** to set the filter options according to the selected filter criteria. The available filters are:
 - [String Filter](#) when filtering by 'Document Name', 'Folder Name' or 'Type'
 - [Time Filter](#) when filtering by 'Modified'
 - [Enumeration Filter](#) for filtering by 'Status'

Secondary filter

For a more comprehensive filtering, select any column as a secondary filter. Click on the **Configure** button to set the filter options according to the selected filter criteria. The available filters are identical to the filters described above.

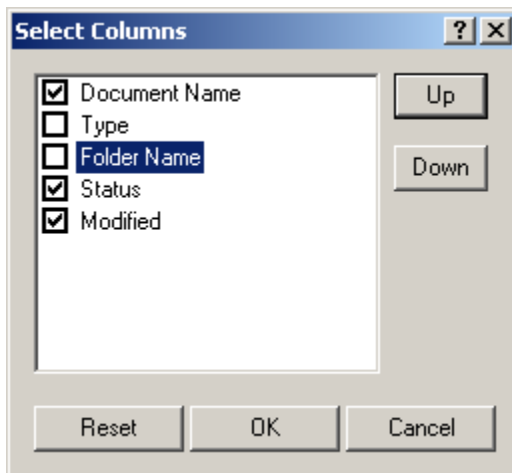
After configuring the report you may either:

- Choose **Preview** to preview your report before saving. (To save time, hyper links reports are not generated in this mode)
- Choose **Report...** to save your settings and generate a report to a file.
- Choose **Close** to close the Reports Generator dialog.

4.2 Select Columns Dialog

The **Select Columns Dialog** allows you to specify the columns you wish to include in the report. To open the **Select Columns Dialog** in the [Reports Generator dialog](#), click **Configure** on the **Report column** section of the **Reports Generator dialog**.

The following dialog box appears:



To select which columns to include in the report, check the box to the left of its name.

The columns will appear in the report in the same order as which they appear in this list. In order to change the order, select the name of a column using the right mouse button and click on the **Up** or **Down** button to change its position.

Click on the **Reset** button to select all the columns.

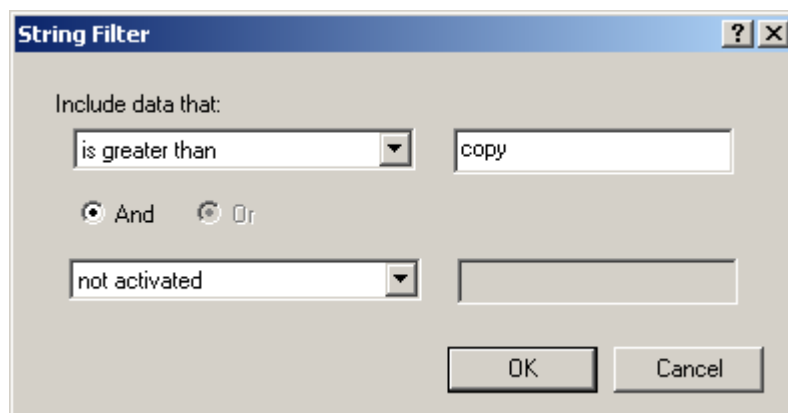
Click **OK** to continue or **Cancel** to go back without making any changes.

4.3 String Filter Dialog

The **String Filter Dialog** allows you to specify the requested range of files by the use of alphanumeric conditions. To open the **String Filter Dialog**, click **Configure** on the **Sort** or **Filter** sections of the [Reports Generator dialog](#).

The **String Filter** can be used when filtering files by Document, Folder or Type.

The following dialog box appears:



In the **String Filter**, strings can be defined with simple queries.

To define a query, chose a condition from the drop down menu and specify an alphanumeric string. The options in the drop-down menu are:

include all - Includes all documents, folders or types (according to what the sorting criterion is - only top condition)

not activated - the filter is not being used (only the bottom condition)

equals - Only includes names equal to the string entered by user

does not equal - Includes all names not equal to the string entered by user

is greater than - Compares each letter from the beginning of the word until the first difference. Words will be included if the first letter that deviates from that in the string is of a higher value, that is, later in the alphabet. For example, Guide is greater than Guard

is greater than or equals - Same as above, but will also permit two equal words.

is less than - Compares as above. Word will be included if the first letter that deviates from that in the string is of a lower value, that is, earlier in the alphabet. For example, Snail is less than Snake

is less than or equals - Same as above, but will also permit two equal words.

begins with - Includes all words starting with the given string

does not begin with - Includes all words except those starting with the given string

contains - Includes all words containing a given string.

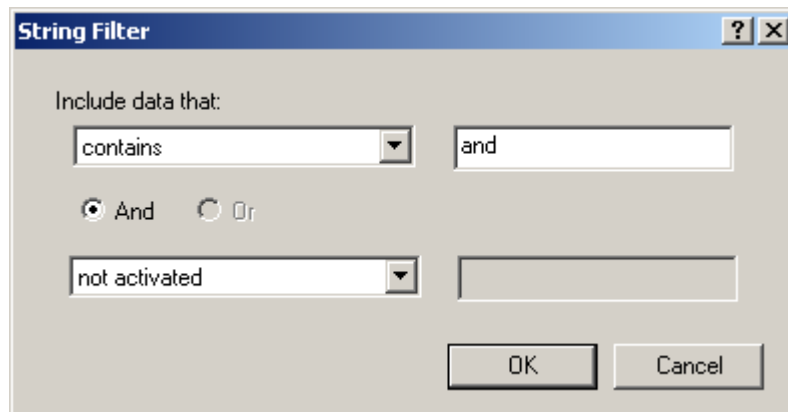
does not contain - Only Includes words which do not contain the given string

When the **'And'** button is selected, both the top and the bottom conditions have to exist.

With the **'Or'** button selected, it's enough that only one of the conditions exist.

Example:

To include only those files which contain the string 'and':



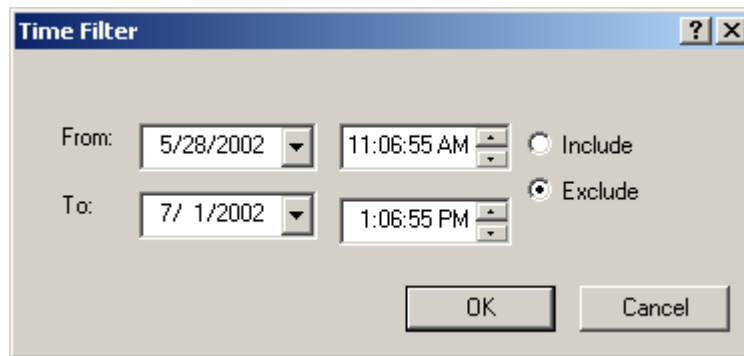
4.4 Time Filter Dialog

The **Time Filter Dialog** allows you to specify a specific time range for files.

With this filter you can define a time range for the files which you want to include or exclude from your report. To open the **Time Filter Dialog**, click **Configure** on the **Sort** or **Filter** sections of the [Reports Generator dialog](#).

The **Time Filter** is used when filtering files according to the **'Modified'** column.

The following dialog box appears:



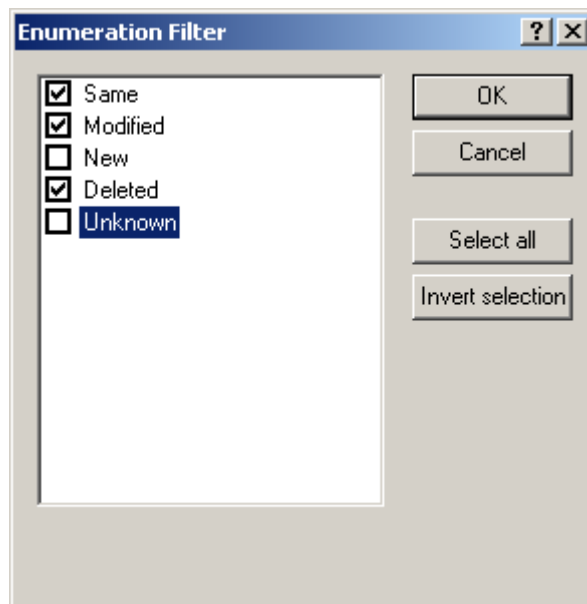
Enter the date and time range in the **From** and **To** boxes.
Select **Include** to report files modified within the given range.

Select **Exclude** to report files modified before and after the given range.

4.5 Enumeration Filter Dialog

The **Enumeration Filter Dialog** allows you to define which statuses to include in the report. To open the **Enumeration Filter Dialog**, click **Configure** on the **Sort** or **Filter** sections of the [Reports Generator dialog](#).

The following dialog box appears:



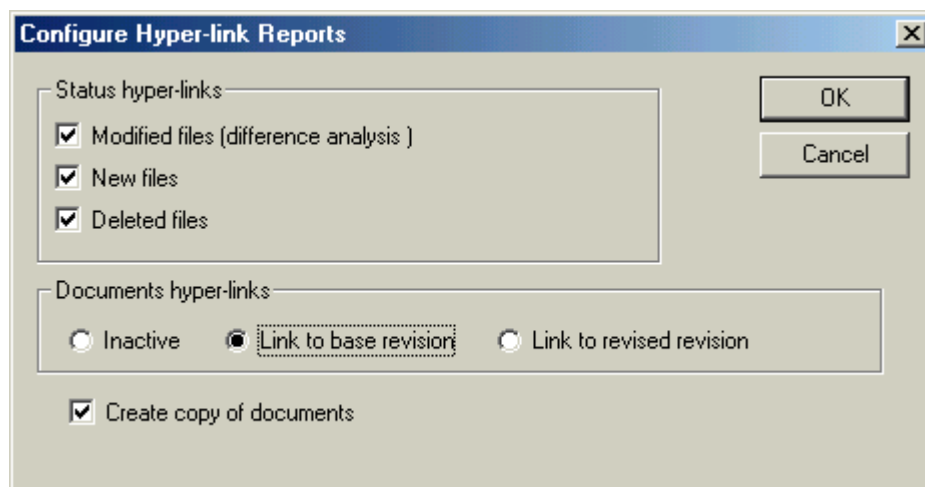
Check the box to the left of the status types which you want to add.
Select All adds all the types, while **Invert Selection** inverts the types currently selected.

4.6 Configure Hyper-link Reports Dialog

The **Configure Hyper-link Reports** dialog lets you enhance your report by creating optional links to the analyzed files and to difference analysis.

To open the **Configure Hyper-link Reports** Dialog, click **Configure** on the **Format** section of the [Reports Generator dialog](#).

The following dialog box appears:



The **Configure Hyper-link Reports** dialog box includes the following options:

Status hyper-links

Use this section to create links from the Status column in the report.

- Check **Modified files** to create links to detailed difference analysis of modified files. For example, refer to [HTML Document Report](#).
- Check **New files** to create links to new files' text.
- Check **Deleted files** to create links to deleted files' text.

Document hyper-links

Use this section to create links from the Document column in the report.

- Choose **Inactive** to deactivate this feature.
- Choose **Link to base revisions** to create links to the base revision text (new files will not be linked).
- Choose **Link to revised revisions** to create links to the revised revision text (deleted files will not be linked).

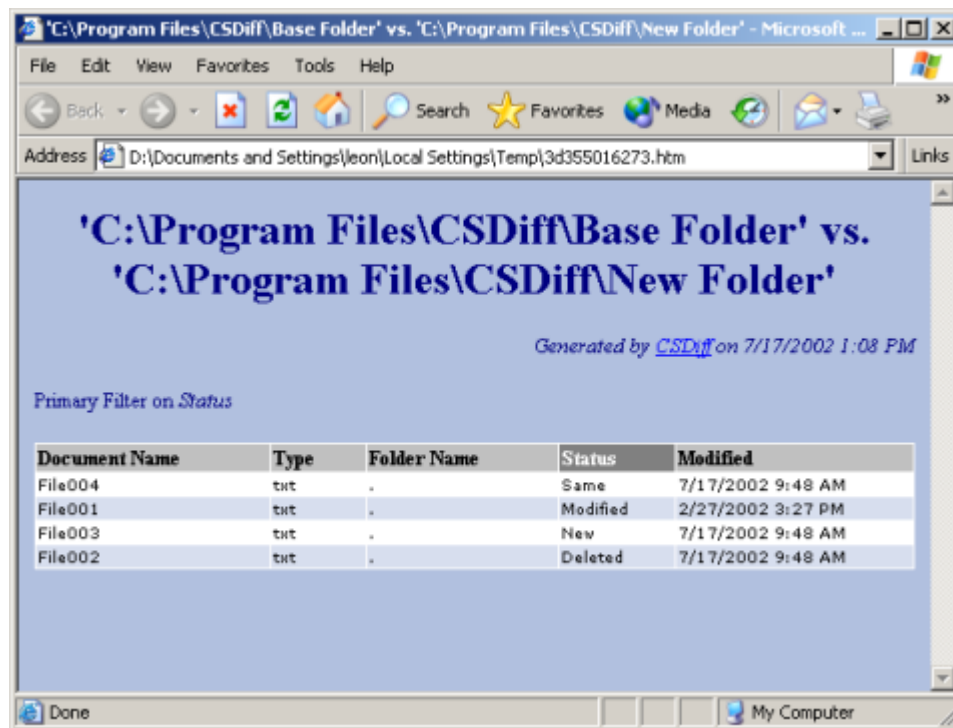
Create copy of documents

- Check this option to create a copy of the linked documents. This feature is useful if you wish to publish the report on a web site.
- Clear this option to create links to the source files' location. This feature is useful if you wish to keep the report on the computer used to generate the analysis.

Note: The **Preview** mode does not produce Hyper-links in the temporary report. In order to activate this feature, you must save the report to file and open it with your web-browser.

4.7 HTML Folder Report

A folder comparison saved as HTML, produces a screen as shown below:

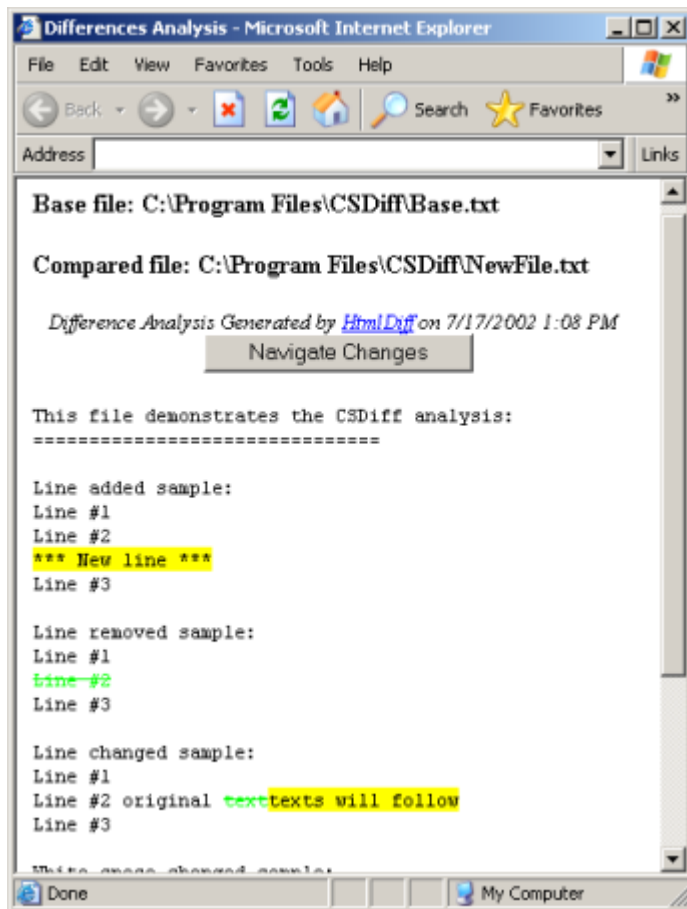


In the example above, a link has been made to the base revision and also to the modified files (done with the [Hyper-link Report](#) function in the [Reports Generator](#) dialog box)

By clicking on links to revisions in the Document Name column, the files are opened in their normal format - the same happens when clicking on a status link for files which are 'New' or 'Deleted'. Clicking on the status link for a file that has been modified will open an [HTML Document Report](#) with a comparison of the changes made to the specific file.

4.8 HTML Document Report

A file comparison saved as HTML, produces a screen as shown below:



The HTML report is can be opened in any web-browser and gives you the ability to move from one change to another.

The comparison mode will be the same as that of the document saved.
If the report has been accessed through a folder comparison, the changes will be displayed using the last single-documents settings saved.

The **Navigate Changes** button which is found in the top right hand corner of the screen opens the following box:



The **Navigation** dialog box lets you move between changes made in the document.
'<' and '>' let you move to the previous and next change, while '<|' and '>|' moves you to the first and last change made.

5 Command-line Interface

5.1 Document Analysis

Syntax:

CSDiff.exe /OoutFormatOutfile [/bblanksMode] [/scomparMethod] [/i] [/n] [/t=nnn] [/q] BaseFileName
CmpFileName [BaseFileTitle CmpFileTitle]

Parameters:

/O[outFormat][outfile] - Generate a report to the specified outfile.

- **h** - Generate an [HTML report](#) in Friendly Format to outfile.htm (Document Mode)
- **d** - Generate a text output in Diff Format to outfile.txt (Document Mode)
- **a** - Generate a text output in Diff Format and append to end of outfile.txt (Document Mode)

(If out-file is not defined, output will be opened in a CSDiff window)

/bblanksMode - Choose blanksMode as follows:

- I** -- Ignores all blanks. As an example, a = b will compare equal to a=b.
- S** -- Smart – same as before (*default*).
- D** -- Detects all blanks.

/scomparMethod – Choose comparMethod as follows:

- L** -- perform line fragments analysis.
- W** -- perform analysis on word level (*default*).
- C** -- perform analysis on character level.

/i --Ignores the case of letters. As an example, A will compare equal to a.

/n – Output line numbers

/t=size – Set the tab-stop size.

/q – Do not invoke any windows. (Useful for remote activation and Web server activation.)

BaseFileName - Base File to be compared to the Compared File

CmpFileName - Compared File

BaseFileTitle - Sets alternative title to the default baseFileName title

CmpFileTitle - Sets alternative title to the default CmpFileName title

Examples:

CSDiff.exe /OdDiffOutput.txt C:\temp\base.txt C:\temp\NewFile.txt

CSDiff.exe /OhHtmlOutput.htm /sW /t=4 C:\temp\base.txt C:\temp\NewFile.txt BaseFile RevisedFile

5.2 Folder analysis

Syntax:

CSDiff.exe /OoutFormatOutfile [/q] [/bblanksMode] [/scomparMethod] [/i] [/fileTypes | /XfileTypes] [/d]

[/rReportDescription] BaseFolderName CmpFolderName [BaseFolderTitle CmpFolderTitle]

Parameters:

/O[outFormat][outfile] - Generate a report to the specified outfile.

- **h** - Generate an [HTML report](#) in Friendly Format to outfile.htm
- **t** - Generate a text output to file outfile.txt
- **x** - Generate a XML report to file outfile.xml

(If out-file is not defined, output will be opened in a CSDiff window)

/q – Do not invoke any windows. (Useful for remote activation and Web server activation.)

/bblanksMode - Choose blanksMode as follows:

I -- Ignores all blanks. As an example, a = b will compare equal to a=b.

S-- Smart – same as before (*default*).

D -- Detects all blanks.

/scomparMethod – Choose comparMethod as follows:

L -- perform line fragments analysis.

W -- perform analysis on word level (*default*).

C -- perform analysis on character level.

/i --Ignores the case of letters. As an example, A will compare equal to a.

/ffileTypes - Generate a report that includes only the specified file types (extensions)

(File types should be written in the form /I*.txt;*.exe)

/XfileTypes - Generate a report that excludes the specified file types (extensions)

/d - Perform Sub folder analysis

/r "ReportDescription" – Report definition string. The report definition string consists on the following fields: (*Note: All fields are optional. Fields are concatenated and may be specified in any order.*)

- **C:ColNum**[...] -- Specify one or more columns to report. (0 - Document name ; 1 - Document type ; 2 - Folder name ; 3 - Status ; 4 - Time modified)
- **S:ColNum**[A][D] -- Column number used as the sort key (column numbers as above). Optionally, Specify the sort order (A - Ascending = default ; D - Descending)
- **F:From**[,To] - Specify alpha-numeric filter. The filter is applied on the selected sort field.
- **H:ReportMode**[...] -- Specify links to the Status column of the report.
 - 0** -- No links (default)
 - 1** -- Link to modification report for modified files and to **copies** of new or deleted files
 - 2** -- Link to modification report for modified files and to **original source** of new or deleted files

BaseFolderName - Base Folder to be compared to the Compared Folder

CmpFolderName - Compared Folder

Examples:

CSDiff.exe /OtTextReport.txt C:\temp\ver10 C:\temp\ver20

CSDiff.exe /OhHtmlReport.htm /rC:3012S:3A C:\temp\ver10 C:\temp\ver20 BaseFolder RevisedFolder
BaseFolderTitle RevisedFolderTitle

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