Text Import-Export

**SpreadCommander** provides built-in way to import and export text files, both delimited and fixed length. Data output goes into **Spreadsheet**.

First sample shows import/export of delimited file using default settings.

Second sample shows how to customize columns. Each column has to be listed. If column needs to be skipped - set **ColumnType** to *$null*.

**Columns** supports following properties:

* **ColumnName (string)**

Column name.

* **ColumnType (Type)**

Type of the values in the column.

* **ColumnLength (integer)**

Length of the column in fixed-length format.

* **Caption (string)**

Column name to use in output.

* **IsNullable (boolean)**

Whether nulls are allowed for the column.

* **DefaulValue (object)**

Default value to use when a null is encountered on a non-nullable.

* **Culture (string)**

Culture used as format provider to use to parse the value.

* **NumberStyles (NumberStyles?)**

Number styles to use when parsing the value..

* **InputFormat (string)**

Format string to use when parsing the date and time.

* **OutputFormat (string)**

Formatting to use when converting the value to a string..

* **TrueString (string)**

Value representing True.

* **FalseString (string)**

value representing False.

* **AllowTrailing (boolean)**

.

* **Trim (boolean, default True)**

Whether the value should be trimmed prior to parsing.

* **FillCharacter (char?)**

.

* **Alignment (FixedAlignment?)**

Alignment of a fixed width column. Possible values: *$null*, *LeftAligned*, *RightAligned*.

* **TruncationPolicy (OverflowTruncationPolicy?)**

How to truncate columns when the data exceeds to maximum width. Possible values: *$null*, *TruncateLeading*, *TruncateTrailing*.

Import and export of text file with fixed-length formatting requires to specify columns.

Final sample shows import and export of **DBF** file. Support for **DBF** is added mostly to read files that comes with ESRI **SHP** map files. Export to **DBF** is very simple and exists mostly as companion for **DBF** import.

Text Import-Export cmdlets

This section contains help for *cmdlets* that allow to import and export text files.

Cmdlet *Import-DelimitedText*

**NAME**  
    Import-DelimitedText  
      
**SYNTAX**  
    Import-DelimitedText [-FileName] <string> [[-Columns] <BaseTextImportExportCmdlet+TextColumnDefinition[]>] [-Separator <string>] [-RecordSeparator <string>] [-Quote <char>] [-NoHeaderRow] [-PreserveWhiteSpace] [-Culture <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Columns <BaseTextImportExportCmdlet+TextColumnDefinition[]>**  
        Definition of columns in delimited data.  
          
        Required?                    false  
        Position?                    1  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Culture <string>**  
        Culture as format provider.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FileName <string>**  
        Name of the file containing delimited data.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-NoHeaderRow**  
        If set - file has no header row.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PreserveWhiteSpace**  
        Whether leading and trailing whitespace should be preserved when reading.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Quote <char>**  
        Character used to quote records containing special characters.)  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RecordSeparator <string>**  
        Record separator. Default is /r, /n, /r/n when reading and Environment.NewLine when writing.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Separator <string>**  
        Character or characters used to separate the columns.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.String  
      
      
**OUTPUTS**  
    System.Data.DataTable  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Export-DelimitedText*

**NAME**  
    Export-DelimitedText  
      
**SYNTAX**  
    Export-DelimitedText [-FileName] <string> [[-Columns] <BaseTextImportExportCmdlet+TextColumnDefinition[]>] [-DataRecord <psobject>] [-DataSource <Object>] [-IgnoreErrors] [-Overwrite] [-Separator <string>] [-RecordSeparator <string>] [-Quote <char>] [-QuoteBehavior {Default | AlwaysQuote | Never}] [-NoHeaderRow] [-PreserveWhiteSpace] [-Culture <string>] [-PassThru] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Columns <BaseTextImportExportCmdlet+TextColumnDefinition[]>**  
        Definition of columns in delimited data.  
          
        Required?                    false  
        Position?                    1  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Culture <string>**  
        Culture as format provider.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataRecord <psobject>**  
        Data source for spreadsheet tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FileName <string>**  
        Name of the file containing delimited data.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-NoHeaderRow**  
        If set - file has no header row.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Overwrite**  
        Whether to allow overwrite file or no.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PassThru**  
        Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PreserveWhiteSpace**  
        Whether leading and trailing whitespace should be preserved when reading.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Quote <char>**  
        Character used to quote records containing special characters.)  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-QuoteBehavior <QuoteBehavior>**  
        How to handle quoting values.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RecordSeparator <string>**  
        Record separator. Default is /r, /n, /r/n when reading and Environment.NewLine when writing.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Separator <string>**  
        Character or characters used to separate the columns.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Import-FixedLengthText*

**NAME**  
    Import-FixedLengthText  
      
**SYNTAX**  
    Import-FixedLengthText [-FileName] <string> [[-Columns] <BaseTextImportExportCmdlet+TextColumnDefinition[]>] [-FillCharacter <char>] [-NoRecordSeparator] [-RecordSeparator <string>] [-NoHeaderRow] [-Alignment {LeftAligned | RightAligned}] [-Culture <string>] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Alignment <FixedAlignment>**  
        Column alignment.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Columns <BaseTextImportExportCmdlet+TextColumnDefinition[]>**  
        Definition of columns in delimited data.  
          
        Required?                    false  
        Position?                    1  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Culture <string>**  
        Culture as format provider.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FileName <string>**  
        Name of the file containing delimited data.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FillCharacter <char>**  
        Character used to buffer values in a column.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-NoHeaderRow**  
        If set - file has no header row.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-NoRecordSeparator**  
        When set - Import-FixedLength text will attempt to start reading the next record immediately after the end of the previous record.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RecordSeparator <string>**  
        Record separator. Default is /r, /n, /r/n when reading and Environment.NewLine when writing.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.String  
      
      
**OUTPUTS**  
    System.Data.DataTable  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Export-FixedLengthText*

**NAME**  
    Export-FixedLengthText  
      
**SYNTAX**  
    Export-FixedLengthText [-FileName] <string> [[-Columns] <BaseTextImportExportCmdlet+TextColumnDefinition[]>] [-DataRecord <psobject>] [-DataSource <Object>] [-IgnoreErrors] [-Overwrite] [-FillCharacter <char>] [-NoRecordSeparator] [-RecordSeparator <string>] [-NoHeaderRow] [-Alignment {LeftAligned | RightAligned}] [-TruncationPolicy {TruncateLeading | TruncateTrailing}] [-Culture <string>] [-PassThru] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-Alignment <FixedAlignment>**  
        Column alignment.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Columns <BaseTextImportExportCmdlet+TextColumnDefinition[]>**  
        Definition of columns in delimited data.  
          
        Required?                    false  
        Position?                    1  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Culture <string>**  
        Culture as format provider.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataRecord <psobject>**  
        Data source for spreadsheet tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FileName <string>**  
        Name of the file containing delimited data.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FillCharacter <char>**  
        Character used to buffer values in a column.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-NoHeaderRow**  
        If set - file has no header row.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-NoRecordSeparator**  
        When set - Import-FixedLength text will attempt to start reading the next record immediately after the end of the previous record.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-Overwrite**  
        Whether to allow overwrite file or no.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PassThru**  
        Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-RecordSeparator <string>**  
        Record separator. Default is /r, /n, /r/n when reading and Environment.NewLine when writing.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-TruncationPolicy <OverflowTruncationPolicy>**  
        Truncation policy  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Import-Dbf*

**NAME**  
    Import-Dbf  
      
**SYNTAX**  
    Import-Dbf [-FileName] <string> [<CommonParameters>]  
      
      
**PARAMETERS**  
**-FileName <string>**  
        Name of the file containing delimited data.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.String  
      
      
**OUTPUTS**  
    System.Data.DataTable  
      
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Cmdlet *Export-Dbf*

**NAME**  
    Export-Dbf  
      
**SYNTAX**  
    Export-Dbf [-FileName] <string> [-DataRecord <psobject>] [-DataSource <Object>] [-IgnoreErrors] [-Overwrite] [-PassThru] [<CommonParameters>]  
      
      
**PARAMETERS**  
**-DataRecord <psobject>**  
        Data source for spreadsheet tables. Data source shall implement interface IList or IListSource and final IList shall implement ITypedList.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       true (ByValue)  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-DataSource <Object>**  
        Data source  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-FileName <string>**  
        Name of the file containing delimited data.  
          
        Required?                    true  
        Position?                    0  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-IgnoreErrors**  
        Ignore errors thrown when getting property values  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      NoErrors  
        Dynamic?                     false  
          
**-Overwrite**  
        Whether to allow overwrite file or no.  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**-PassThru**  
        Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output  
          
        Required?                    false  
        Position?                    Named  
        Accept pipeline input?       false  
        Parameter set name           (All)  
        Aliases                      None  
        Dynamic?                     false  
          
**<CommonParameters>**  
        This cmdlet supports the common parameters: Verbose, Debug,  
        ErrorAction, ErrorVariable, WarningAction, WarningVariable,  
        OutBuffer, PipelineVariable, and OutVariable. For more information, see  
        about\_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).   
      
      
**INPUTS**  
    System.Management.Automation.PSObject  
      
      
**OUTPUTS**  
    System.Object  
      
**ALIASES**  
    None  
      
  
**REMARKS**  
    None

Table of Contents

Text Import-Export 1

Text Import-Export cmdlets 3

Cmdlet Import-DelimitedText 3

Cmdlet Export-DelimitedText 5

Cmdlet Import-FixedLengthText 8

Cmdlet Export-FixedLengthText 10

Cmdlet Import-Dbf 13

Cmdlet Export-Dbf 14

Table of Contents 16