dtSearch Web

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Introduction

dtSearch Web is a search engine that you can install on a Web server to publish documents on your web site. It can perform fast indexed searches using the same search features that dtSearch Desktop supports -- fuzzy searching, phonic searching, boolean logic, proximity, etc. Indexed documents can be in any format that dtSearch supports, such as Word, Excel, PowerPoint, WordPerfect, RTF, and ZIP archives.

After a search, dtSearch Web will convert documents as needed to HTML for display, with hits highlighted. If a retrieved document is already in HTML, dtSearch Web will display it with hits highlighted while preserving the HTML attributes (so links and images will work in your browser).

Highlighting hits in PDF files is done using an Adobe Reader plug-in, which is available for download from this page: https://download.dtsearch.com/pdfhl/

dtSearch Web requires Microsoft Internet Information Server (IIS) version 6 or later.

With a CD publisher license, you can also use dtSearch Web to publish documents on a CD.

Quick Start

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dtSearch Web quick start

dtSearch Web is a search engine that you can install on a Web server to publish documents on your web site. It can perform fast indexed searches using the same search features that dtSearch Desktop supports -- fuzzy searching, phonic searching, natural language searching, boolean logic, proximity, etc. Indexed documents can be in any format that dtSearch supports, such as HTML, PDF, XML, Word, Excel, PowerPoint, and ZIP archives.

After a search, dtSearch Web will convert documents as needed to HTML for display, with hits highlighted. If a retrieved document is already in HTML, dtSearch Web will display it with hits highlighted while preserving the HTML attributes (so links and images will work in your browser).

This Quick Start will describe how to get a basic search form running on your web site with minimal effort. You can create any number of search forms, each with its own set of option settings and index selections. For information on setting up dtSearch Web to run from a CD, DVD, or other portable media, see CD Publishing (Overview).

1. **Install the dtSearch and dtSearch Web program files on your web server.**
   dtSearch Web requires Microsoft Internet Information Server (IIS), which is included with Windows. For supported Windows versions, see dtSearch Web system requirements and performance.
   For instructions to install the required IIS components, please see:
   How to install dtSearch Web on Windows Server
   How to install dtSearch Web

2. **Make the document folders accessible on your web server**
   To provide access to documents on your web server, designate each folder that contains documents to be published as a virtual directory in IIS. IIS will automatically include subfolders of a virtual directory that you create, so you only need to define the top-level document folder as a virtual directory. To allow anonymous access for document searches, the document folders and index folders must have read permission enabled for the IUSR account.

3. **Build an index of your documents**
   dtSearch Web uses the same indexes as dtSearch, so if you already have a dtSearch index of the documents that you want to make searchable, you can use this index with dtSearch Web. If not, follow the dtSearch Quick Start to set up an index. If you are indexing a dynamically-generated web site (such as a web site generated by a content manager) see "How to use dtSearch web with dynamically-generated

content" for information on using the dtSearch Spider to set up your index.
The index folder must also have read permissions enabled for the IUSR account to allow anonymous access for searching.
For faster display of search results, you can use the "Create Index (Advanced)" dialog box to enable the "Cache document text in index" option when you create the index. If you do this, a user who is able to search an index will also be able to open any documents that are cached in the index. Therefore, if documents are subject to security restrictions, the same security restrictions should apply to the index folder, if the documents are being stored in the index.

4. Run dtSearch Web Setup

In dtSearch, click **File > dtSearch Web Setup**. dtSearch Web Setup will display a drop-down list of the web sites on your server, and below it a list of the virtual directories defined for each site.

5. Select the web site to use with dtSearch Web

If you have more than one web site on this server, you can install dtSearch Web on each of them, or just one. (To install dtSearch Web on additional web sites, repeat the procedure described in this Quick Start for each site.)

6. Select the folder where dtSearch Web should be installed

dtSearch Web Setup will create a "dtSearch" folder under the folder you select where the dtSearch Web files will be installed. Click the **Install or Upgrade** button to install the dtSearch Web files in the folder you selected.
If the folder you selected does not already have 'Execute' permission enabled, dtSearch Web Setup will ask if it can enable 'Execute' permission in the folder so dtSearch Web can run from that folder. When dtSearch Web Setup asks if it can register dtSearch Web with Internet Information Services, answer **Yes** to have dtSearch Web Setup take care of this automatically.

7. Build a Search Form for your site

Click the **Build Search Form...** button to build a search form to use with your site. You can make as many search forms as you want for each site. After dtSearch Web Setup has generated a search form, you can use an HTML editor to edit the form to fit into your web site.
dtSearch Web provides several alternative templates you can use to create your search form. For each form you create, select a template from the **Template** drop-down list to specify the type of form to generate. Examples of each type of template are available at https://support.dtsearch.com/support/forms.
In the **Form Builder** dialog box, click the **Indexes** tab to select indexes for the search form. Check the box next to each index to include it on your search form.

8. Click OK to build the search form.

After the search form is built, dtSearch Web will open it in your browser so you can try out a search. Once you have a basic search form working, you can run **Form Builder** again to customize the search form, the appearance of search results, and many other options.

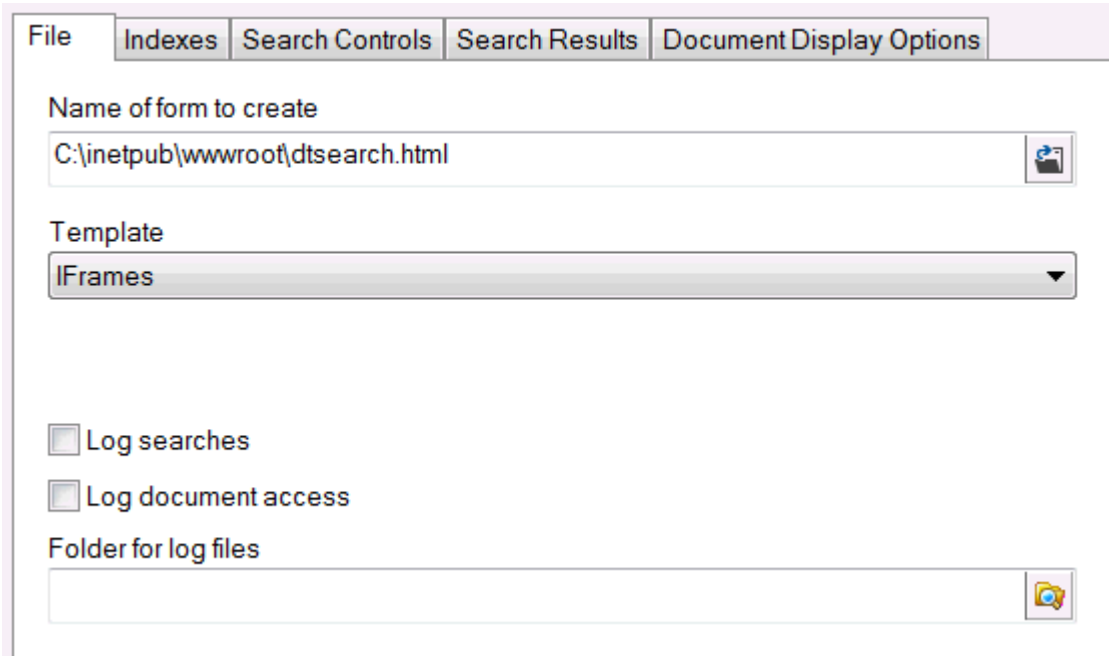
Logging

To enable logging in dtSearch Web, check the **Log document access** or **Log searches** checkboxes in the **File** tab of the **Form Builder** dialog box. For information, see Logging.

Customizing the search interface

Form builder

Click the **Build Search Form...** button in dtSearch Web Setup to build a search form to use with your site. You can make as many search forms as you want for each site. After dtSearch Web Setup has generated a search form, you can use an HTML editor to edit the form to fit into your web site.



Under the **File** tab of the **Form Builder**, you can select the name and location of the search form to create. When you create a search form, Form Builder will generate a set of files containing JavaScript, CSS styles, help, and other components of the search form. For details on these files, see Generated files. To avoid cluttering your other web site folders with these files, you may want to generate the form in its own subfolder of your web site. For example, if you generate the search form in c:\inetpub\wwwroot\SearchForms\form1.html, then the other generated files will also go in the c:\inetpub\wwwroot\SearchForms folder.

Template

dtSearch Web provides several alternative templates you can use to create your search form. For each form you create, select a template from the **Template** drop-down list to specify the type of form to generate. Examples of each type of template are available at https://support.dtsearch.com/support/forms.

The following templates are included with dtSearch Web:

IFrames. The IFrames template is a search form with one IFrame for search results and a second IFrame for retrieved documents.

No Frames. The No Frames template does not use frames or IFrames for anything. After a search, the search results will open in a new tab overlaying the search form, and when users click on retrieved documents, the documents will appear in another new tab overlaying the search results.

Two Frames. The Two Frames template uses two resizable frames, one for the search form and search results, and a second for retrieved documents.

Three Frames. The Three Frames template is similar to the Two Frames template, but it adds a separate frame for the button bar with the "Next Hit", "Prev Hit", etc. buttons. This template is most similar to the layout used in older versions of dtSearch Web.

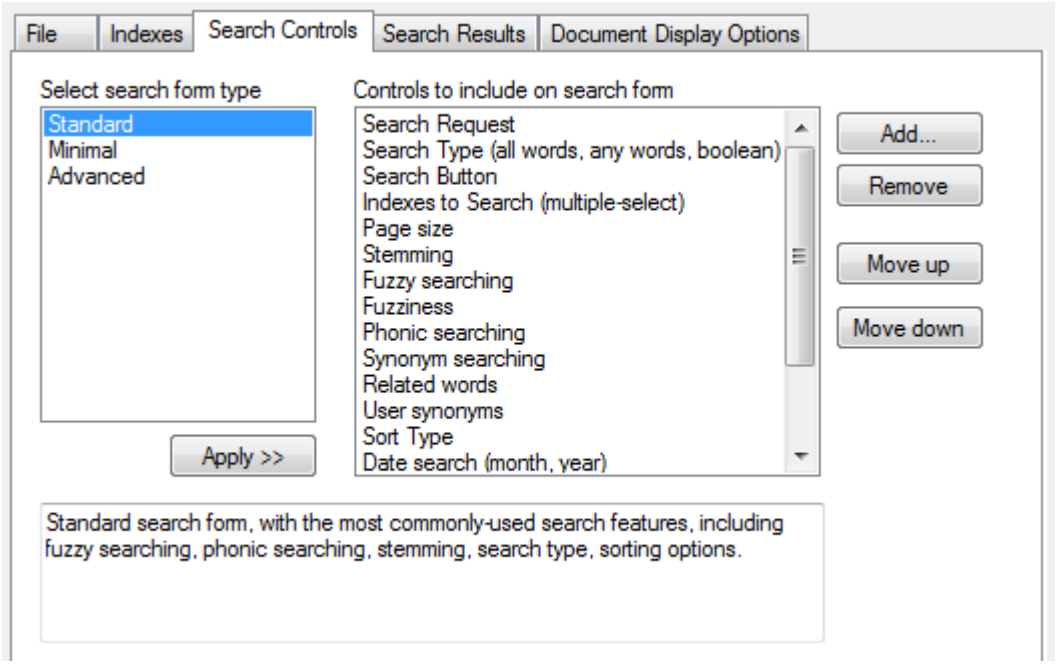
Logging

Check the **Log searches** and **Log document access** boxes to enable logging of searches from this search form. For more information on logging options, see **Logging.**

Search controls

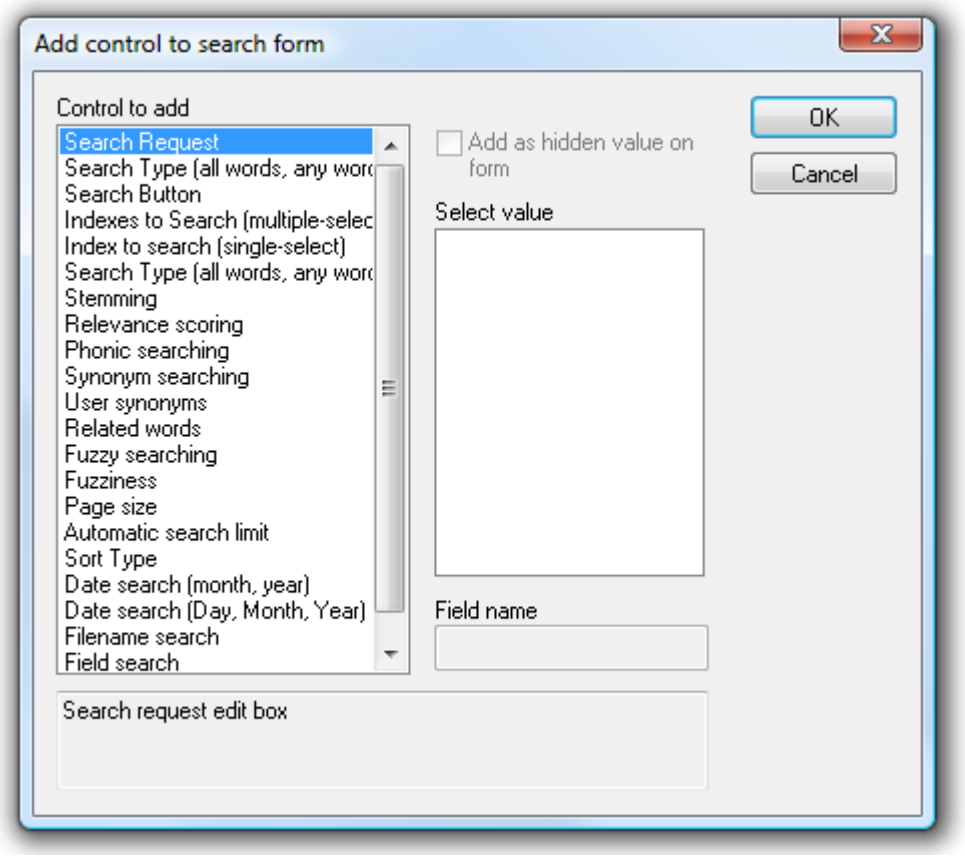
The **Search Controls** tab in the **Form Builder** lets you specify the contents of the search form that will be generated.

Once the form is generated, you can edit it using any HTML editor to match the rest of your web site.



Click a search form type under **Select search form type**, and click **Apply>>**, to set up one of the standard sets of search controls. Once you have done this, you can click **Add...** or **Remove** to add or remove specific controls. Use **Move up** and **Move down** to change the order of the controls on the search form.

Adding a control



To add a control:

1. Select the type of control to add under **Control to add.**

2. To add a hidden control that specifies a default value, check the **Add as hidden value on form** box and select one of the listed values.

To add custom fields such as Subject or Author:

1. Select the **Field search** field type under **Control to add.**

2. Enter the name of the field under **Field name.**

Selecting indexes to include

In the **Form Builder** dialog box, click the **Indexes** tab to select the indexes that you want to put on the search form. Check the box next to each index to include it on your search form.

When you check the box next to an index name, dtSearch will include that index in the list of indexes on the search form.

Check the box to **Encrypt index paths in search form** to have the search form use numeric codes instead of folder names to identify indexes in the search form.

dtSearch Desktop Integration

dtSearch Desktop integration allows a dtSearch Desktop user to combine searches of local and network indexes with dtSearch Web searches through the dtSearch Desktop user interface. If some of your users will have dtSearch Desktop, check the box labelled **Make these indexes accessible to users through dtSearch Desktop** to allow these users to search directly from dtSearch Desktop. The search form generated will have a "Get index library" link added that these users can click on to integrate dtSearch Desktop with your site. Once a user has done this, the indexes listed on your search form will be added to the user's **Search** dialog box in dtSearch.

Customizing the search results format

The **Search Results** tab in the **Form Builder** lets you change the way dtSearch displays the results of a search.

Items to include in search results list
Add or remove items that will appear in search results. To remove an item on the list, un-check the box next to it. Click the **Add...** button to add a new item. For each item, you can use **Modify...** to customize the way it appears in search results.

Search results header
Search results footer
This is the HTML that appears at the top and bottom of the search results list. You can modify it to change the way search results appear. The header and footer can contain the following special codes:

Symbol	Meaning
%%Request%%	The search request that the user entered.
%%FileCount%%	The number of documents retrieved.
%%HitCount%%	In search results, the total number of hits in all files. For a document, the number of hits in the document.

Display the PDF Title as the filename for PDF files
PDF files have a "Title" attribute that is usually more readable than the filename. Check this box to make the Title appear in search results instead of the filename.

Display the HTML <TITLE> as the filename for HTML files
HTML files also have a title, included between <TITLE> and </TITLE> tags in the file, that is often more readable than the filename. Check this box to make the HTML title appear in search results instead of the filename for HTML files.

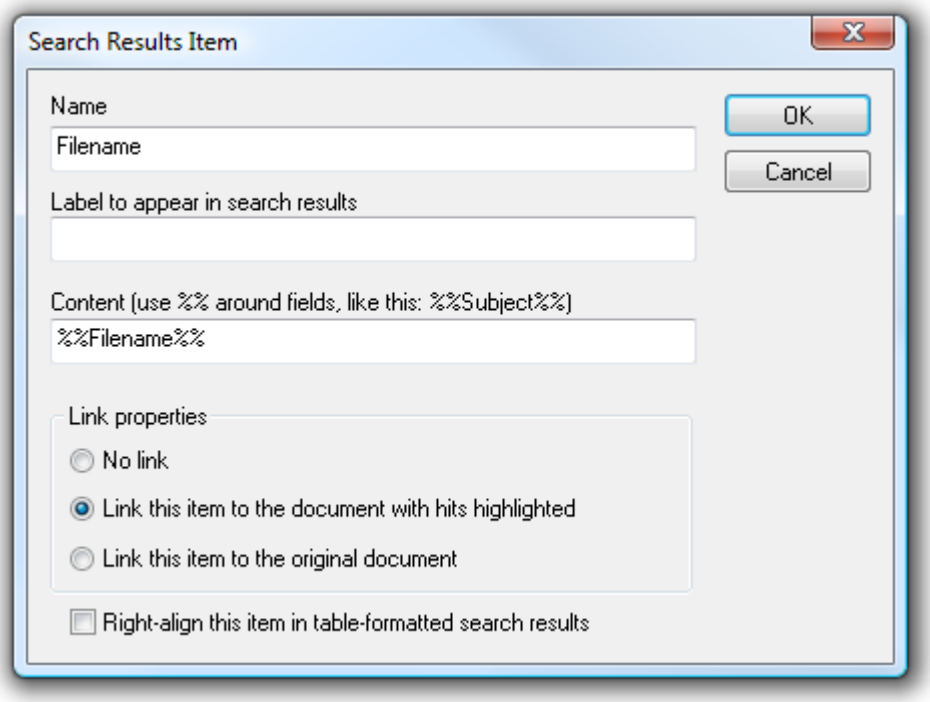
Remove scripts from HTML files when highlighting hits
HTML files often contain JavaScript code that may not work properly when the file is displayed outside of its usual context. For example, the JavaScript may refer to documents or objects that would appear in another frame. Check this option to have dtSearch remove any JavaScript it finds in an HTML file when highlighting hits. (The original HTML file will be unaffected. This option only affects what dtSearch Web will display when highlighting hits in an HTML file returned after a search.)

Highlight hits in documents indexed using the Spider
Check this box to enable highlighting of hits in documents that were indexed using the Spider. To make hit highlighting faster, create your index with the "Cache original documents" option enabled.

Use HTTP proxy
When highlighting documents indexed using the Spider, dtSearch Web must download a local copy of the file (unless the index was created with caching of original documents enabled). Check the "Use HTTP Proxy" box, and supply the URL of the proxy server to use, if dtSearch Web should use a proxy server when downloading web pages.

Modifying a search results item

When you click **Add...** or **Modify...** in the Search Results tab of the **Form Builder**, you can specify the content of an item to appear in search results.



Name
The name of the item. This name is only used in the list of items in the **Search Results** tab and is not displayed in search results.

Label to appear in search results
This label is any HTML that you want to appear in front of the item. For example <B>Date:</B> would put **Date:** in front of the field.

Content
This is the information about the document that you want to appear in search results. The following pre-defined fields can be used:

String	Purpose
%%Hits%%	Hit count
%%Filename%%	Name of the retrieved document
%%Location%%	Path to the retrieved document
%%Date%%	Modification date of the document
%%Size%%	Size of the document

%%Synopsis%%	Brief segment of text showing the first few hits in context
%%Title%%	Text from the first few lines of the document, or the TITLE of an HTML document

Additionally, if you have stored user-defined fields in the index, you can insert these as well. For example, if you set up a stored field named "Subject", put %%Subject%% in the Content to insert the value of this field for each document.

Link properties
Select the type of link to insert for this search results item, if any.

Document display options

The **Document Display Options** tab in the **Form Builder** lets you specify how documents will appear in search results.

Before hit
After hit
Code to insert before and after a hit for hit highlighting.

File types to display without conversion to HTML
List any file types that you want dtSearch Web to display without conversion to HTML. For example, if you want the Microsoft Word viewer plug-in to display .DOC files, add DOC to the list. PDF files are always displayed in Adobe Reader, without conversion to HTML.

Highlight hits using multiple colors
By default, all hits are highlighted using a yellow background. Check this box to have dtSearch Web highlight each search term hit using a different color. The colors used are the same ones used in dtSearch Desktop (Options > Preferences > Fonts and Colors).

Allow display of documents that are not located in a virtual root folder
This box should not be checked unless for some reason it is impossible to create a virtual directory for the documents on your site. Please see the **Security** topic before changing this setting.

Logging

dtSearch Web can log searches and document access to text files that you can use to generate reports. The log files are generated in CSV format, which you can import into Excel or most databases. The document access log will only log access to documents that have hits highlighted. dtSearch Web has no way to monitor access to documents that users open directly, without hit highlighting.

The location for the log file must be a folder that allows write access by the user account(s) that will be searching. For anonymous access, this is usually the IUSR account. Therefore, you may want to create a separate folder just for the log files.

To enable logging in dtSearch Web, check the **Log document access** or **Log searches** checkboxes in the **File** tab of the **Form Builder** dialog box.

This will set up the search form for default logging of search requests or document access. Each search form can have its own separate log settings.

You can also enable logging for a search form by directly editing the generated options file. Directly editing the file gives you access to low-level options such as the fields that will be included in the log.

The entries in the generated options file that control logging are listed below. The DocumentLogNameTemplate and SearchLogTemplate control the locations of the log files.

```
<BR><HR><I>Log searches: </I>
<!-- $Begin LogSearches -->
1
<!-- $End -->
<BR><HR><I>Log document access: </I>
<!-- $Begin LogDocumentAccess -->
1
<!-- $End -->
<BR><HR><I>Document log name template: </I>
<!-- $Begin DocumentLogNameTemplate -->
c:\temp\dtSearchWebLogs\dtSearch Docs %%Year%%-%%Month%%.log
<!-- $End -->
<BR><HR><I>Document log item template: </I>
<!-- $Begin DocumentLogItemTemplate -->
%%DateTime%%, "%%REMOTE_USER%%", "%%REMOTE_ADDR%%", "%%DocName%%", "%
%Result%%"
```

```
<!-- $End -->
<BR><HR><I>Search log name template: </I>
<!-- $Begin SearchLogNameTemplate -->
c:\temp\dtSearchWebLogs\dtSearch Search %%Year%%-%%Month%%.log
<!-- $End -->
<BR><HR><I>Search log item template: </I>
<!-- $Begin SearchLogItemTemplate -->
%%DateTime%%, "%%REMOTE_USER%%", "%%REMOTE_ADDR%%", "%%SearchRequest%
%", "%%SearchIndex%%", %%DocCount%%, "%%Result%%"
<!-- $End -->
```

Technical information

Generated files

For each search form generated in **Form Builder**, a set of HTML files is created. Assuming the form is named dtsearch.html, the files created are:

File	Purpose
dtsearch_minihelp.html dtsearch_help.html	Help on search requests. This will appear in the right panel when the user initially opens the search form.
dtsearch_options.html	The dtsearch_options.html file contains settings that dtSearch Web uses to generate search results and to format retrieved documents for display.
dtSearch_WebSearchForm.css dtSearch_SearchResults.css	Style sheets that control the appearance of the search form and search results.
dtSearch_WebSearchForm.js dtSearch_SearchResults.js dtSearch_Utilities.js	JavaScript that implements features of the search form and search results, such as hit navigation.

If the search form uses frames, the frameset will be named dtsearch.html and the search form will be named dtsearch_form.html. Otherwise, the search form itself will be named dtsearch.html.

After the search form is generated, you can edit it in an HTML editor to customize the appearance. You can also replace the text in dtsearch_help.html with other explanatory text, such as a detailed description of what is in each index. When editing the search form, be sure not to remove the META tag at the top of the form that looks like this:

```
<META HTTP-EQUIV="Content-Type" CONTENT="text/html; charset=utf-8">
```

This tag ensures that non-English characters in your search form will be handled correctly. If you move the search form to another web page, copy the META tag into the <HEAD> area of the new page.

Moving the files

When dtSearch Web receives a search request, it uses the name of the search form to find the options file, which it uses to format search results. For example, if the search

form is dtsearch_form.html, it will look for the options file in dtsearch_options.html. Therefore, if you move or rename the search form, it is important to move or rename the options file so that dtSearch Web can find it. If the search form name ends with "_form.html", the options file should end with "_options.html". If the search form name does not end in "_form.html", the options file should be the same as the search form name, but with "_options" added before the filename extension.

Examples:

Search Form Name	Options File Name
example_form.html	example_options.html
example.html	example_options.html

Another way to ensure that the options file remains linked to the search form is to add a hidden form variable with the full path and filename of the search form, like this:

```
<input type="hidden" name="OrigSearchForm" value="/
dtSearch_form.html">
```

dtSearch Web will check this form variable only if the filename matching method described above does not work.

The search form

The search form generated by dtSearch Web Setup is a standard HTML form that you can edit in an HTML editor or cut and paste into other pages.

Form Variables

dtSearch Web recognizes the following form elements:

Form Element	Meaning
cmd	A hidden form element that must have the value "search"
request	Search request
fileConditions	Optional additional search criteria based on a file's name, modification date, or size
booleanConditions	Optional additional boolean search criteria
searchType	Specifies the type of query syntax used in the request. If present, must be one of: allwords, anywords, phrase (for exact phrases), bool.
fuzziness	Level of fuzziness in a fuzzy search (0-9)
fuzzy	Enables fuzzy searching
index	Path to the index to search on the server
autoStopLimit	Search will automatically halt after this many documents have been found
maxFiles	Maximum number of files to retrieve (selects the best-matching files)
pageSize	Number of items to return per page of search results
phonic	Enables phonic searching
sort	Sorting method (name, hits, size, or date)
stemming	Enables stemming
synonyms	Enable synonym searching
userSynonyms	In synonym searches, use the user thesaurus
wordNetRelated	In synonym searches, use WordNet related words (antonyms, subcategories, etc.)
wordNetSynonyms	In synonym searches, use the WordNet synonyms

Form Element	Meaning
searchFlags	A numerical value with any combination of the search flags in the dtSearch developer API. For more information see: SearchFlags
mc	Highlight hits using multiple colors
returnXml	Return search results as XML rather than HTML

If fileConditions and/or booleanConditions are included on the form, and are not blank, then they are combined with the user's search request. All conditions included in a search must be satisfied by each document retrieved.

Selecting Multiple Indexes

Using the standard dtSearch Web search form, your users can select multiple indexes to search by holding down the CTRL key and clicking on the index names.

You can also edit the search form to add a single option that would cover multiple indexes. In an HTML "Select" control, the options look like this:

```
<option value="something"> visible text
```

The "visible text" appears in the list of choices, and if it is selected, the *value* is what gets sent to the server. To add an option that includes more than one index, make the *value* a list of index paths, using the | character to separate each index path. The visible text can be anything you want. Example:

```
<option value="C:\indexes\first|c:\indexes\second|c:
\indexes\third">Search all indexes
```

Sorting

If sort is not "size", "name", "date", or "hits", then dtSearch Web will assume that the sort key is a stored field and will use the dtsSortByField search flag. Sort can be followed by a colon and a numerical value that will be combined with the sort type. Example: "subject:0x210002". See Sorting Search Results for more information on sort flags.

hits
In a search that is sorted by hits, dtSearch will return up to maxFiles of the most relevant documents, organized into pages each with pageSize documents. If pageSize is not specified in the search form, the maxFiles value will be used as the page size.

date
Sorting by date works like sorting by hits, except that the most recent documents are returned instead of the most relevant.

size, name, and custom fields
When sorting by criteria other than hits or date, dtSearch will return up to maxFiles of the

most relevant files, organized into pages each with pageSize documents, with the entire results list sorted by the specified criteria. For example, if the sort criterion is "size", pageSize is 10, and maxFiles is 100, dtSearch will find the 100 most relevant files (not the 100 largest), and will display them in pages of 10 documents, sorted by size.

The options file

cThe option settings in dtsearch_options.html control the appearance of search results and retrieved files, generation of the synopsis, logging, and other options.

Each setting is bracketed with HTML comments, like this:

```
<!-- $Begin DocHeader -->
%%Filename%% (%%HitCount%% hits)
<!-- $End -->
```

The text that appears between the $Begin and $End comments has to be valid HTML. Text that is not between $Begin and $End comments is ignored, and can be used to insert explanatory comments.

Template Settings

Because dtsearch_options.html is a valid HTML file, you can edit it directly in an HTML editor to change the appearance of retrieved documents or search results. When editing the HTML, be careful to keep the $Begin and $End comments around each option setting.

Setting	Purpose
DocHeader	Text displayed above each retrieved document
DocFooter	Text displayed below each retrieved document
DocScript	JavaScript inserted in each retrieved document to enable hit navigation
ResultsHeader	Text displayed above each search results list
ResultsFooter	Text displayed below each search results list
ResultsScript	JavaScript inserted in each search results list to enable navigation between documents.
BeforeHit	Text displayed before each hit in a document
AfterHit	Text displayed after each hit in a document
ResultsTableHeader	Top row of search results table (for column labels)
ResultsTableItem	Format of each item in the search results table
ResultsTableFooter	End of search results table (generally </table>)

In **ResultsTableItem**, the following symbols identify where document-related information is displayed:

Symbol	Purpose
%%Hits%%	Hit count
%%PhraseCount%%	Hit count, counting a phrase as a single hit
%%HitsByWord%%	List each word or phrase found in the search and the number of hits for each
%%Filename%%	Name of the retrieved document
%%Synopsis%%	Brief snippet of text showing the first hits in the document with a few words of context around each hit. See Synopsis Settings, below.
%%Location%%	Path to the retrieved document
%%Date%%	Modification date of the document
%%SizeK%%	Size of the document in kilobytes
%%Size%%	Size of the document in bytes
%%Title%%	Text from the first few lines of the document, or the TITLE of an HTML document
%%DirectLink%%	The string to be used for the HREF for an http: link to the document without hits highlighted (to directly open a file over a web connection)
%%HighlightLink%%	The string to be used for the HREF for a link to the document with hits highlighted
%%LocalLink%%	The string to be used for the HREF for a link to the local path to the document (for use with dtSearch Publish only)
%%ThisDocOrdinal%%	Sequential number of this item in the search results list (1, 2, 3, ...)

The search results format can also include a string that tells dtSearch Web to include the search form at the end of the search results list. This string is:

```
%%Include{%%SearchForm%%}%%
```

Link Types

ResultsTableItem usually will contain one or more links to open the retrieved document. In these links, use %%DirectLink%%, %%HighlightLink%%, or %%LocalLink%% to specify the type of link you want. For example:

```
<a href="%%HighlightLink%%">%%Filename%%</a>
```

This would produce a link with the name of the document in the link. When clicked, the document would open with hits highlighted.

If you want to open the file without highlighting, to allow the native viewer for the file to open it, use either %%DirectLink%% or %%LocalLink%%. %%DirectLink%% produces a link to the file using http, and is appropriate for use over a web connection (example: https://www.example.com/documents/sample.doc). %%LocalLink%% produces a link to the location of the file on disk (example: c:\documents\sample.doc) and is appropriate for use in dtSearch Publish or to give users on a LAN direct access to files.

Option Settings

The options file also contains settings that control searching behavior and the way links and file information appear in search results.

Setting	Purpose
MultiColorHighlighting	Highlight each search term using a different color, instead of using one color for all terms
HighlightColors	Ten six-digit hex color codes to use as the highlighting colors if MultiColorHighlighting is enabled
DisplayPdfAsText	Display PDF files as plain text instead of using the browser's default PDF viewer.
FieldWeights	Specify the weight for hits that occur in fields. Example: subject:10, HtmlTitle:15
HtmlRemoveScripts	Disable JavaScript in retrieved HTML files
HtmlUseTitleAsName	Use the Title of HTML files as the filename
PdfUseTitleAsName	Use the Title of PDF files as the filename
MaxUrlSize	Maximum size of a URL to generate
MaxWordsToRetrieve	Maximum number of words to match in a single search
MaxWordsMessage	Message to display when too many words matched
UnconvertedTypes	File types to display without conversion to HTML
NoFilesMessage	Message to display when no files are retrieved
HighlightHttpDocs	Highlight hits in documents indexed via HTTP (using the dtSearch Spider)
HttpProxy	Proxy server to use to access web resources

Setting	Purpose
SERVER_NAME	Server address for the dtSearch Web server in search results. (Specify only if it is necessary to override the automatically-detected server name.)

Synopsis Settings

The %%Synopsis%% symbol in search results represents a brief snippet of text including the first hits in each document, with a few words of context around each hit. The settings below provide options to customize how the synopsis is generated.

Performance
Generating a synopsis requires that dtSearch Web open the original document and scan through it to extract the text around each hit, which can be a time-consuming operation. To make generation of a synopsis faster, enabling caching of text when you create the index of the documents. For more information on this option, see "Caching Text" in the dtSearch Desktop help file.

Formatting
dtSearch Web will format the synopsis so it can be inserted into a search results table. Line breaks, paragraph formatting, colors, and extra spacing will all be removed to produce a simple snippet of text, with hits marked in bold.

Setting	Purpose
SynopsisMaxContextBlocks	Number of blocks of context to include in the synopsis.
SynopsisContextHeader	Text to include in front of each block of context.
SynopsisWordsOfContext	Number of words to include around each hit in the synopsis.
SynopsisMaxWordsToRead	Number of words in each document to scan looking for blocks of context to include in the synopsis.

Log Settings

To enable logging in dtSearch Web, check the **Log document access** or **Log searches** checkboxes in the **File** tab of the **Form Builder** dialog box. This will set up the search form for default logging of search requests or document access. The options, like the options for document display, are controlled by a list of templates that you can customize by editing the generated options file.

Setting	Purpose
LogSearches	Set to 1 to enable logging of all search requests
LogDocumentAccess	Set to 1 to enable logging of document access
DocumentLogNameTemplate	Template used to generate the filename for the document access log
DocumentLogItemTemplate	Template used to generate a single entry in the document access log
SearchLogNameTemplate	Template used to generate the filename for the search log
SearchLogItemTemplate	Template used to generate a single entry in the search log

The two filename templates, DocumentLogNameTemplate and SearchLogNameTemplate, are used to generate log filenames. By building date symbols into the log name, you can have a new log file start every day, month, or year. Example:

```
c:\logs\SearchLog%%Year%%-%%Month%%.log
```

The two item templates, SearchLogItemTemplate and DocumentLogItemTemplate, are used to generate the lines added to the log file. The following symbols can be used in the templates to customize the content of the logs:

Symbol	Meaning
%%DateTime%%	The date and time of the search
%%Result%%	"OK" if the request succeeded, "DENIED" if access was denied, "FAILED" on other errors
%%REMOTE_USER%%	The value of the REMOTE_USER HTTP variable (unless your site requires a login, it will be blank)
%%REMOTE_ADDR%%	The value of the REMOTE_ADDR HTTP variable (the IP address of the user accessing the site)
%%DocName%%	The name of the document accessed (document log only)
%%SearchRequest%%	The user's search request (search log only)
%%FileConditions%%	The value of the fileConditions form variable (search log only)
%%BooleanConditions%%	The value of the booleanConditions form variable (search log only)

Symbol	Meaning
%%SearchIndex%%	The index (or indexes) searched (search log only)
%%DocCount%%	The number of documents retrieved (search log only)
%%Month%%	The month of the search (01-12)
%%Day%%	The day of the search (01-31)
%%Year%%	The year of the search (4-digit)

The log files are generated in CSV format, which you can import into Excel or most databases.

Virtual directories

When users access your web site through a web server, they do not see the same folders and files that you would see in Explorer. Instead, they see "virtual" folders with names like "/Scripts" or "/Docs" that you map to folders on your hard disk when you set up your web server.

Virtual folders (also called virtual roots, virtual paths, or virtual directories) are the names of folders that you decide to publish on your site. For example, if your site is www.sample.com and you decide to publish c:\website\docs on your hard disk as "/Docs", then users accessing that folder would go to https://www.sample.com/Docs. The local path is c:\website\docs, and the virtual path is /Docs.

To set up a virtual folder using Internet Information Server, right-click on the web site entry in IIS. (It will usually be called "Default Web Site" unless you have renamed it.) Select **New > Virtual Directory** and enter the name and location of the virtual directory that you want to create.

Note: After you have created a new virtual directory, run the dtSearch Web Setup program again so that dtSearch Web will know about the new directories. (You do not have to do anything in dtSearch Web Setup -- just open the program and then close it again.)

Security

dtSearch Web does not alter Windows security settings and only provides access to documents when the user seeking access has the necessary permissions. To secure a site, or to make a site open to the public, use Explorer and Internet Service Manager to set the permissions you want and dtSearch Web will recognize those permissions automatically. There is no need to rebuild your indexes after changing security settings.

Documents on an internet site are usually placed in virtual directories. These are folders that have been designated as part of your site and that have been given an "alias" such as /Docs. dtSearch Web will only display documents that are located in a virtual directory, and will display an error message if a user tries to access documents located in other folders. The purpose of this is to provide an additional layer of protection against unauthorized access to documents.

There is an option to override this setting in the Document Display Options tab, but this option is **not** recommended, because of the risk that documents could be inadvertently made available on the web through dtSearch Web.

dtisapi6.dll

dtSearch Web is an ISAPI DLL, dtisapi6.dll, that works with Microsoft Internet Information Server version 4 or later. (Other web servers, even if they are ISAPI-compliant, will not work with dtSearch Web.)

Searching

The search request web page contains an HTML form with input fields specifying the index to be searched, the search request, and search features such as stemming, phonic searching, etc. For a list of the form variables in the search form, see "The Search Form."

When the user clicks the Submit button on the search form, your web server sends the form data to dtisapi6.dll using the Common Gateway Interface (CGI) and Microsoft's ISAPI interface. dtisapi6.dll performs the search using the dtSearch Engine (dten600.dll) and returns HTML search results.

Limiting Searches

The maxFiles form element determines how many documents will be returned from a search. For example, if you set this to 25, dtSearch Web will return the best-matching 25 documents.

You can also limit the total number of files found in a search, using the autoStopLimit. While maxFiles allows the entire search to complete and then returns the best-matching files, autoStopLimit halts the search if it finds too many files and returns the partial results. AutoStopLimit can be useful for very large document collections. Example: A document collection contains 1,000,000 documents on banking, nearly all of which include the word "bank". A search for "bank" could take a long time because dtSearch would have to count the number of hits in each of the 1,000,000 documents to find the best-matching files. Setting AutoStopLimit to 5000 would halt the search after it had found 5000 matching files.

Viewing Documents

The HTML search results returned by dtisapi6.dll contain links back to the server site that enable the user to view retrieved documents with hits highlighted. The HREF in each link invokes dtisapi6.dll as follows:

HREF="dtisapi6.dll?cmd=getdoc&doc=<doc info> &hits=34+68"

The text after the ? indicates a CGI query. The elements of the query are separated by the & character and punctuation marks are URL-encoded -- %3a = colon (":"), %5c = backslash ("\"), %2e = period (".") . The + represents a space.

Retrieved documents appear in the user's web browser as they would in the dtSearch end-user product, with basic formatting (italics, underlining, bold, centering, indentation, etc.) preserved and hits highlighted.

Windows Server Installation

Before you install

dtSearch Web requires the following prerequisites under Windows Server:

- The Web Server role must be enabled

- The following Role Services must be installed:

    ISAPI Extensions
    IIS 6 Management Capability
    IIS 6 MetaBase Compatibility
    IIS 6 Scripting Tools

In Windows Server, to access these settings,

(1) Click **Start** > **Control Panel** > **Programs and Features** > **Turn Windows features on or off**

(2) Click on the **Web Server (IIS)** role.

Installing dtSearch Web

The 64-bit version of dtSearch Web Setup should be used with the 64-bit version of Windows Server, and the 32-bit version of dtSearch Web Setup should be used with the 32-bit version of Windows Server.

(1) Run dtSearch Web Setup as Administrator. When you install dtSearch Web, note the location where dtisapi6.dll was copied (you may need it in step 4 below).

(2) When dtSearch Web Setup asks if it can register dtSearch Web with Internet Information Services, answer **Yes** to have dtSearch Web Setup take care of this automatically. If you prefer to register dtSearch Web yourself, please see "Registering dtSearch Web," below.

Creating Indexes

When you create indexes in Windows Server, the default security settings will *not* allow these indexes to be searched by dtSearch Web. Therefore, to make these indexes searchable, you can either (a) create the indexes under the wwwroot folder, or (b) change the permissions on the index folders so they are accessible to the internet user running in IIS. If the permissions on your indexes do not allow for access by dtSearch Web, you may see an "Access Denied" error when you attempt to search.

Registering dtSearch Web

Note: This step is only needed if you do not have dtSearch Web Setup automatically register dtSearch Web with IIS.

(1) Open Internet Information Services Manager and navigate to the server node

(2) Open **ISAPI and CGI Restrictions**

(3) Click **"Add..."**

(4) Under **ISAPI or CGI path**, locate the dtisapi6.dll file under the c:\inetpub folder, and select it.

(5) Under "Description" enter "dtSearch Web"

(6) Click **OK**.

autorun.inf

Autorun.inf is a file that Windows checks when a CD is inserted. It looks like this:

```
[autorun]
OPEN=cdrun.exe
```

When Windows finds an autorun.inf file on a CD, it will look for the OPEN= line and launch any program it finds referenced there. Autorun.inf has to be located in the top-level folder of a CD to work (not a in a subfolder).

Portable media publishing

Portable media publishing (Overview)

dtSearch Publish provides an easy way to publish documents on a CD, DVD, or other portable media, using a browser-based user interface so users can access the content as they would access a web site. dtSearch Publish uses the same search components and templates as dtSearch Web, so the search forms and customization options look exactly the same as for dtSearch Web running on a web server.

Note: a dtSearch Publish distribution license is required before media containing dtSearch components can be distributed to users.

Some advantages of a browser-based user interface are: it provides high-quality display of HTML files, so web sites will appear just as they do on the original site; it can be customized simply by changing some HTML files; it is easy for customers to use; and no software has to be installed on the user's hard disk to access the content.

As with dtSearch Web, PDF and HTML files are displayed exactly as they would appear in a web browser, but with hits highlighted. Other file types are converted to HTML with hits highlighted for display in the browser. To use a CD or other media created with the CD Wizard, the user needs to have Windows 10 or newer and, for viewing PDF files, Adobe Reader. To enable hit highlighting in PDF files, the user will need a compatible PDF viewer and may need a plug-in. For more information, please see "PDF viewers that support highlighting hits".

Note: While this manual refers to publishing to "CD", the content can be located on any type of media that is accessible through the file system, including DVDs, flash drives, USB drives, internal drives, etc.

For step-by-step instructions to create a CD from your documents, see Using the CD Wizard .

For detailed technical information about how the CD software works, see:

CD Types

Standard CDs

Using the CD Wizard

The CD Wizard helps you to create one or more CD master folders. Each folder contains a set of documents, software, and dtSearch indexes that is ready to be transferred to a CD. You can create any number of CD master folders, and each folder can contain any number of document folders and indexes.

Creating a CD

To create a CD master folder,

1. Install the dtSearch Publish program files on your computer.
If you have dtSearch Web on CD, run the setup program to install. If you downloaded dtSearch Web from the internet, follow the download instructions to open the dtSearch Web archive and install the files.

2. Start the dtSearch CD Wizard
In dtSearch, click **dtSearch CD Wizard...** in the **File** menu.

3. Make a new CD master folder
Click **New CD...** to make a new CD master folder, enter the name of the folder for the CD contents, and click **OK**.

4. Add documents to the CD
Click **Add Documents...** to add documents to the folder. The **Add Documents** dialog box will appear. When the CD master folder is set up, a root\data folder will be created where the documents should be stored. To add documents to the CD, you can copy them into this folder using Windows Explorer, or you can use the **Add Folder...** button to have the CD Wizard do this automatically. When you click OK after selecting a folder to add, all of the documents in the folder will be copied into the CD master folder.

5. Create an index for the documents
Click **Create Index...** to create an index for the documents. You can create any number of indexes on each CD (just click **Create Index...** for each one). The process of creating and updating an index works exactly as it does in dtSearch Desktop.

6. Build a search form
Click the **Build Search Form...** button to build a search form to use with your site. You can make as many search forms as you want for each site.
After the search form is built, dtSearch Web will open it in your browser so you can

try out a search. Once you have a basic search form working, you click Build Search Form again to customize the search form, the appearance of search results, and other options, and to create additional search forms.

7. Make a "home" page for the CD

The home page is the first page that users will see when they insert the CD. The home page is named index.html and is located in the root\data subfolder of the CD master folder.

Once the CD is done, transfer the contents of the CD master folder to a CD. Copy the contents of the CD master folder, but not the CD master folder itself. For example, if the CD master folder is C:\CDMaster, there should not be a folder named CDMaster on the CD, but everything in C:\CDMaster should be copied to the CD. (This way the autorun.inf file that the CD Wizard creates will be in the root folder of the CD.)

Modifying a CD

To add more documents, click **Add Documents...** and copy additional folders to the CD. After you have added documents click **Update Index...** to add the new documents to your indexes.

For information on changing the CD type, see **CD Types**.

Deleting a CD

To delete a CD master folder, just delete the folder in Windows Explorer. The CD Wizard will detect that the folder is gone the next time it runs and will remove it from the drop-down list of CD master folders.

"Recognizing" a CD

To access a CD master folder that the CD Wizard does not list (for example, if the CD master folder was copied from another computer), click **Recognize CD** and browse to the CD master folder. The CD master folder will be added to the list in the CD wizard.

CD types

dtSearch Publish can generate two types of CDs:

(1) "Standard" CDs that use the dtSearch Publish viewer, lbview.exe, to view content on the CD.

(2) "Local HTTP Server" CDs that use Internet Explorer to view content on the CD, and use a localhost-only HTTP server to enable Internet Explorer to access the CD.

For most applications, the "Standard" CD type is recommended.

To change the type of a CD that you have already set up, click **Change CD Settings...** and select one of the CD types.

Standard CDs

A Standard CD uses a viewer program, lbview.exe, to view content on the CD. Web pages and search forms appear exactly as they would in a web browser, and all search functions work as they would on a web site, including any JavaScript embedded in search forms.

Because no HTTP server is needed, the CD is not affected by firewall software.

CD Layout

The top-level folder of the CD will contain these files:

File	Purpose
autorun.inf	Specifies the program to start when the CD is inserted
cdrun.exe	The program launched when the CD is inserted, as specified in autorun.inf
cdrun.xml	Options specifying what cdrun.exe should do when it starts

Below this folder will be a **root** folder with two sub-folders:

- **data**, which has documents, indexes, and the search forms, and
- **cgi-bin**, which has the search program and any other executable content that you add to the CD.

The root\data folder will be equivalent to the / folder on a web site, so /something.html would be found in root\data\something.html

The root\cgi-bin folder will be equivalent to the /cgi-bin folder on a web site, and can hold any CGI programs for the web site.

Startup

The startup sequence when a CD is inserted into a user's CD drive is as follows.

1. Windows opens the autorun.inf file to get the program to launch, which is cdrun.exe.
2. cdrun.exe starts and checks that the components listed in the dependencies section of cdrun.xml are present. If any components are missing, cdrun.exe will display a warning message (as specified in cdrun.xml) and exit.
3. cdrun.exe launches lbview.exe, the browser that accesses the CD.
4. lbview.exe starts and checks the lbview.ini file for the recommended Internet Explorer and Adobe Reader versions. If either product is older than the

recommended version, the user will be prompted to download the latest version from the Microsoft or Adobe web site.

5. lbview.exe opens the home page for the CD, root\data\index.html
6. If the user clicks the search icon in the browser, the search page for the CD will open, root\data\dtsearch.html

System Requirements

Windows version: Windows 10 or later.

Internet Explorer version: Internet Explorer is required to enable hit navigation and hit highlighting to work.

Adobe Reader version: A PDF viewer that supports highlighting hits is required or PDF files will appear without hit highlighting. For information on PDF viewers that support hit highlighting, please see PDF viewers that support highlighting hits.

Error Pages

The root\data\builtin folder on the CD contains these pages that are displayed in lbview.exe when an error occurs.

File	Purpose
GetNewIE.html	Appears at startup when the Internet Explorer version is older than what is specified in lbview.ini as the minimum recommended Internet Explorer version. This page contains a link that the user can click to suppress the page from appearing the next time the CD starts.
GetAdobe.html	Appears at startup when the Adobe Reader version is older than what is specified in lbview.ini as the minimum recommended version. This page contains a link that the user can click to suppress the page from appearing the next time the CD starts.
GetPlugin.html	Appears at startup when an Adobe Reader plug-in is needed to highlight hits in PDF files. This page contains a link that the user can click to suppress the page from appearing the next time the CD starts.
Error.html	Appears when any other browsing error occurs, such as a broken link leading to a "page not found" error.

lbview.ini Settings

The following settings in lbview.ini can be used to control the behavior of lbview.exe

HomePage=/index.html
Specifies the first page that opens when the CD starts.

SearchPage=/dtSearch.html
Specifies the page that opens when the user clicks the search button.

WebLinksInBrowser=1
Specifies whether external links should open in the user's web browser or in the lbview.exe program. For example, suppose a page on your CD contains a link to https://www.microsoft.com. If WebLinksInBrowser is set to 1, when this link is clicked the user's web browser will open over the lbview.exe program. If WebLinksInBrowser is set to 0, the link will open in the lbview.exe program.

ExternalLaunchExtensions=xls;doc;ppt;wpd;docx;pptx;xlsx;rtf
List extensions to launch outside of the lbview.exe program. This enables you to create links in the CD to Word or other Office documents and have them open in their application when the user clicks a link.

CopyFileExtensions=zip
List extensions to copy instead of opening when clicked. These extensions can be used to create links to automatically copy certain files from the CD.

MinimumAdobeReaderVersion=6
Specifies the minimum version of Adobe Reader (or Adobe Acrobat) recommended to use with this CD. If an older version is present, or if Adobe Reader is not installed, the user will be prompted to get Adobe Reader from the Adobe web site. If your CD will not contain PDF files, you can set this to 0 (zero).

GetAdobeReaderPage=/builtin/GetAdobe.html
The page to display when a newer version of Adobe Reader is needed.

MinimumIEVersion=5
The minimum version of Internet Explorer recommended to use with this CD. If an older version is present, the user will be prompted to upgrade.

GetNewIEPage=/builtin/GetNewIE.html
The page to display when a newer version of Internet Explorer is needed.

MinimumPdfPluginVersion=1
The minimum version the dtSearch PDF Search Highlighter Plug-in for Adobe Reader that is needed to highlight hits. Set to zero to suppress prompts to download the plug-in.

GetPdfPluginPage=/builtin/GetPlugin.html
The page to display when the dtSearch PDF Search Highlighter Plug-in for Adobe Reader is not installed.

EnablePdfHighlightMessage=Would you like to enable hit highlighting for PDF files (currently disabled in Adobe Reader or Adobe Acrobat)?

SilentEnablePdfHighlighting=1
If PDF hit highlighting is disabled in Adobe Reader 9 or Adobe Acrobat 9, the lbview.exe program can change this setting to enable hit highlighting before opening a PDF file. You can use EnablePdfHighlightMessage to ask permission to make this change, or set SilentEnablePdfHiglighting to have lbview.exe make the change without asking permission.

The option to disable hit highlighting is present starting in Adobe Reader and Adobe Acrobat 9.0, in the Preferences > Search settings ("Enable search highlights from external highlight server").

Launching Programs from the Viewer

Standard CDs support a special URL format that lets you launch a program from a link in a page on the CD. To create a link that launches a program,

(1) Put the program in the root/cgi-bin folder under the CD master folder.

(2) Create a link on a page as follows:

```
<a href="cmd://launch/YourProgramName.exe">Click here to launch the program</a>
```

The lbview.exe viewer will execute the program YourProgramName.exe in root/cgi-bin when this linked is clicked.

Using Tabs

You can make a link open in a different tab using the *target* attribute in the link tag, like this:

```
<a href="othertab.html" target="_new">click here</a>
```

A user can close a tab by clicking the X icon, or you can create a link to close a tab by using javascript:window.close(), like this:

```
<a href="javascript:window.close();">click here to close this tab</a>
```

Internet Explorer normally pops up a warning message when a script attempts to close a window. To prevent this, lbview.exe watches for the exact sequence "javascript:window.close();" and closes the current tab silently when this occurs in a link.

Microweb Information

Microweb is an HTTP server that provides some additional capabilities, such as Perl support. It is not a dtSearch Corp. product and is available from this company: https://www.indigostar.com. A license costs $299.

Advantages of Microweb

Microweb includes support for Perl and MySQL running from the CD.

How to use Microweb with dtSearch Publish

To modify a CD to use Microweb,

(1) Install Microweb, either the evaluation version or the full version. (The evaluation version is not licensed for redistribution.)
(2) Click **Change CD Settings**
(3) Under **Interface Type**, select **HTTP Server (Microweb)**
(4) Under **Microweb.exe location**, enter the location where microweb.exe is installed
(5) Click OK.

Software Dependencies

If your content requires a specific browser version, plug-ins, or other software that must be installed, you can use the Dependencies entries in the cdrun.xml file to have your CD install these as needed. Each dependency is numbered from 0 to 9 and contains the following information:

Setting	Purpose
Component	A DLL that must be loaded successfully for the dependency to be satisfied.
Message	A prompt that will be displayed if the component is missing. If FileToLaunch is not blank, the message must be a question asking the user for permission to install the software. If FileToLaunch is blank, the message should be an error message.
FileToLaunch	Program to execute if the component is missing (if blank, nothing will be launched). If the required software is on the CD, this should be the path to the executable, relative to the top folder on the CD.
ErrorPage	An HTML file to open if the dependency cannot be satisfied. This can contain links to a web site to download the required software.

Example: Displays a warning message if the SampleComponent.dll is not installed.

```
<Dependency0>
<Component>SampleComponent.dll</Component>
<Message>SampleComponent.dll is not installed</Message>
<FileToLaunch></FileToLaunch>
<ErrorPage>browserError.html</ErrorPage>
</Dependency0>
```

The cdrun.xml File

The cdrun.xml configuration file controls the behavior of cdrun.exe, which is the program launched to view a CD created with dtSearch Publish. Each of the option settings in cdrun.xml is explained below.

```
<?xml version="1.0" encoding="UTF-8" ?>
<dtSearchCdSettings>
<UseLocalBrowser>1</UseLocalBrowser>
<ServerToLaunch>root\data\lbview.exe</ServerToLaunch>
<Dependency0>
<Component>SampleComponent.dll</Component>
<Message>A newer version of Sample Component is needed.</Message>
<FileToLaunch></FileToLaunch>
<ErrorPage>sample-error.html</ErrorPage>
</Dependency0>
</dtSearchCdSettings>
```

ServerToLaunch

The program to launch to start the CD. If UseMicroweb is true (see below) then ServerToLaunch should be set to root\data\microweb.exe

UseLocalBrowser
UseMicroweb
Specifies the interface type for the CD.

Dependency0
Up to 10 dependencies, numbered from 0 to 9, can be included in a cdrun.xml file, specifying components or programs that must be installed for the CD to work. See "Software Dependencies" for information on the contents of this section.

Index

%

%%Date%% 14, 24

%%Filename%% 16, 14, 24

%%HitCount%% 16, 24

%%Hits%% 14, 24

%%Location%% 14, 24

%%Size%% 14, 24

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