

HTMLDOC 1.8.27 Software Users Manual

ESP-003-20060801

Easy Software Products
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Introduction

This document describes how to use the HTMLDOC software, version 1.8.27. HTMLDOC converts Hyper-Text Markup Language ("HTML") input files into indexed HTML, Adobe® PostScript®, or Adobe Portable Document Format ("PDF") files.

HTMLDOC supports most HTML 3.2 elements, some HTML 4.0 elements, and can generate title and table of contents pages. It does not currently support stylesheets.

HTMLDOC can be used as a standalone application, in a batch document processing environment, or as a web-based report generation application.

No restrictions are placed upon the output produced by HTMLDOC.

HTMLDOC is available both as open source software under the terms of the GNU General Public License and as commercial software under the terms of a traditional commercial End-User License Agreement.

History

Like many programs HTMLDOC was developed in response to a need our company had for generating high-quality documentation in printed and electronic forms. For a while we used FrameMaker® and a package from *sgi* that generated "compiled" Standard Generalized Markup Language ("SGML") files that could be used by the Electronic Book Technologies ("EBT") documentation products; EBT was bought by INSO who was bought by Stellent™ who apparently has dropped the whole product line. When *sgi* stopped supporting these tools we turned to INSO, but the cost of their tools is prohibitive to small businesses.

In the end we decided to write our own program to generate our documentation. HTML seemed to be the source format of choice since WYSIWYG HTML editors are widely (and freely) available and at worst you

can use a plain text editor. We needed HTML output for documentation on our web server, PDF for customers to read and/or print from their computers, and PostScript for our own printing needs.

The result of our efforts is the HTMLDOC software which is available for Linux®/UNIX®, MacOS® X, and Microsoft® Windows®. Among other things, this software users manual is produced using HTMLDOC.

Organization of This Manual

This manual is organized into tutorial and reference chapters and appendices:

- [Chapter 1](#) - Installing HTMLDOC
- [Chapter 2](#) - Getting Started
- [Chapter 3](#) - Generating Books
- [Chapter 4](#) - HTMLDOC from the Command-Line
- [Chapter 5](#) - HTMLDOC from a Web Server
- [Chapter 6](#) - HTML Reference
- [Chapter 7](#) - GUI Reference
- [Chapter 8](#) - Command-Line Reference
- [Appendix A](#) - License Agreement
- [Appendix B](#) - Book File Format
- [Appendix C](#) - Release Notes
- [Appendix D](#) - Compiling HTMLDOC from Source

Support

Commercial support is available from Easy Software Products when you purchase the HTMLDOC Professional Membership. More information is available at the HTMLDOC web page at the following URL:

<http://www.easvsw.com/htmldoc/>

Encryption Support

HTMLDOC includes code to encrypt PDF document files using the RC4 algorithm with up to a 128-bit key. While this software and code may be freely used and exported under current US laws, other countries may restrict your use and possession of this code and software.

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Solaris is a registered trademark of Sun Microsystems, Inc.

SPARC is a registered trademark of SPARC International, Inc.

UNIX is a registered trademark of the X/Open Company, Ltd.

HTMLDOC is the trademark property of Easy Software Products.

HTMLDOC is copyright 1997-2006 by Easy Software Products. See [Appendix A - License Agreement](#) for the terms of use.

This software is based in part on the work of the Independent JPEG Group and FLTK project.

Chapter 1 - Installing HTMLDOC

This chapter describes the steps needed to install the commercial version of HTMLDOC on your system. If you are installing HTMLDOC from source code, please see [Appendix D. Compiling HTMLDOC from Source](#).

Requirements

HTMLDOC requires approximately 4MB of disk space and one of the following environments:

- Microsoft Windows® 2000 or higher
- MacOS® X 10.2 or higher
- Linux® 2.4 or higher
- Solaris® 7 or higher

HTMLDOC may run on other platforms, however we do not provide packages for platforms other than those listed.

Installing HTMLDOC

The following instructions describe how to install the HTMLDOC software on your system.

Installing HTMLDOC on Microsoft Windows

HTMLDOC is provided as a Microsoft installer file under Windows. Insert the CD or double-click on the *htmldoc* icon in the *Explorer* window to install HTMLDOC under Windows using the Microsoft software installation wizard (Figure 1-1).

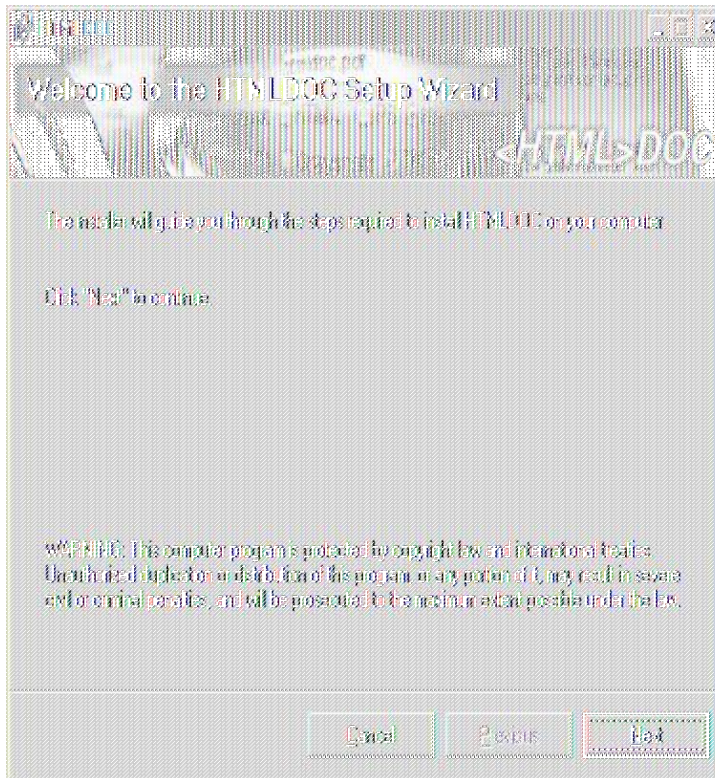


Figure 1-1: The Microsoft software installation wizard

Installing HTMLDOC on MacOS X

Double-click on the *Install* icon in the *Finder* window to start the software installation wizard (Figure 1-2) and follow the installer prompts.

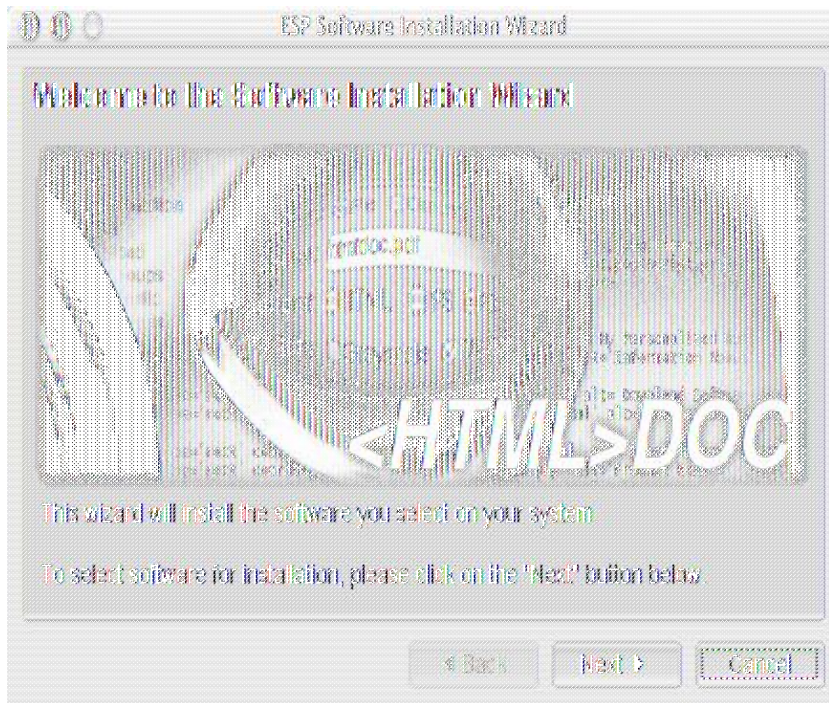


Figure 1-2: The software installation wizard

Installing HTMLDOC on Linux

Double-click on the *htmldoc-linux-intel.rpm* icon or run the following command to install HTMLDOC on Linux:

```
rpm -i htmldoc-linux-intel.rpm ENTER
```

Installing HTMLDOC on Solaris

Run the following command to install HTMLDOC on Solaris SPARC:

```
pkgadd -d htmldoc-solaris-sparc.pkg ENTER
```

Run the following command to install HTMLDOC on Solaris Intel:

```
pkgadd -d htmldoc-solaris-intel.pkg ENTER
```

Licensing HTMLDOC

Before you can use HTMLDOC, you must license it. When you first run HTMLDOC, the license dialog (Figure 1-3) will appear.

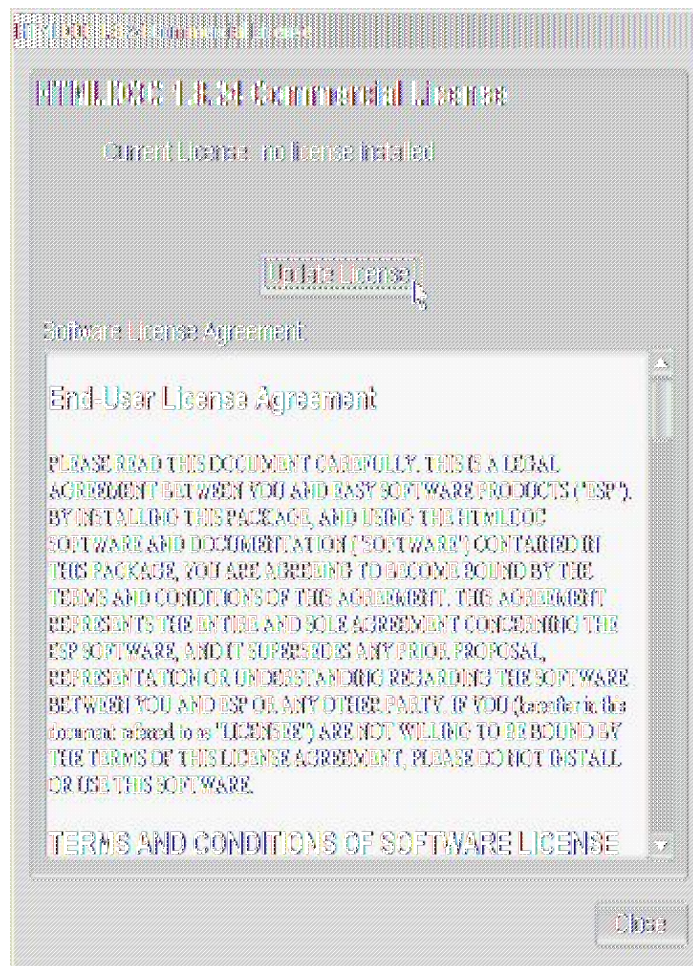


Figure 1-3 - The HTMLDOC License Dialog

Click on the *Update License* button to show the license manager window (Figure 1-4).



Figure 1-4 - The HTMLDOC License Dialog

Enter the license key that was emailed to you or came on the inside of the HTMLDOC CD-ROM case and click on the *OK* button. Click on the *Close* button to start using the software.

Uninstalling HTMLDOC

The following instructions describe how to remove the HTMLDOC software from your system.

Uninstalling HTMLDOC on Microsoft Windows

Open the Control Panel window and double-click on the *Add/Remove Software* icon. When the available software list is displayed, select HTMLDOC and click on the *Remove* button.

Uninstalling HTMLDOC on MacOS X

Double-click on the *Uninstall* icon in the *Finder* and follow the prompts.

Uninstalling HTMLDOC on Linux

Run the following command to remove HTMLDOC from your Linux system:

```
% rpm -e htmdoc ENTER
```

Uninstalling HTMLDOC on Solaris

Run the following command to remove HTMLDOC from Solaris:

```
% pkgrm htmdoc ENTER
```

Chapter 2 - Getting Started

This chapter describes how to start HTMLDOC and convert HTML files into PostScript and PDF files.

Note:

HTMLDOC currently does not support HTML 4.0 features such as stylesheets or the STYLE, TBODY, THEAD, or TFOOT elements. For more information, please consult [Chapter 6 - HTML Reference](#).

Starting HTMLDOC

For Windows click:

Start Menu->All Programs->HTMLDOC->HTMLDOC

For MacOS X click:

Applications Folder->HTMLDOC

For Linux click:

Applications Menu->Office->HTMLDOC

or type:

`htmldoc ENTER`

For Solaris click:

Applications Window->ESP->HTMLDOC

or type:

`htmldoc ENTER`

Choosing a HTML File

The HTMLDOC window (Figure 2-1) shows the list of input files that will be converted. Start by clicking on the *Web Page* radio button (1) to specify that you will be converting a HTML web page file.

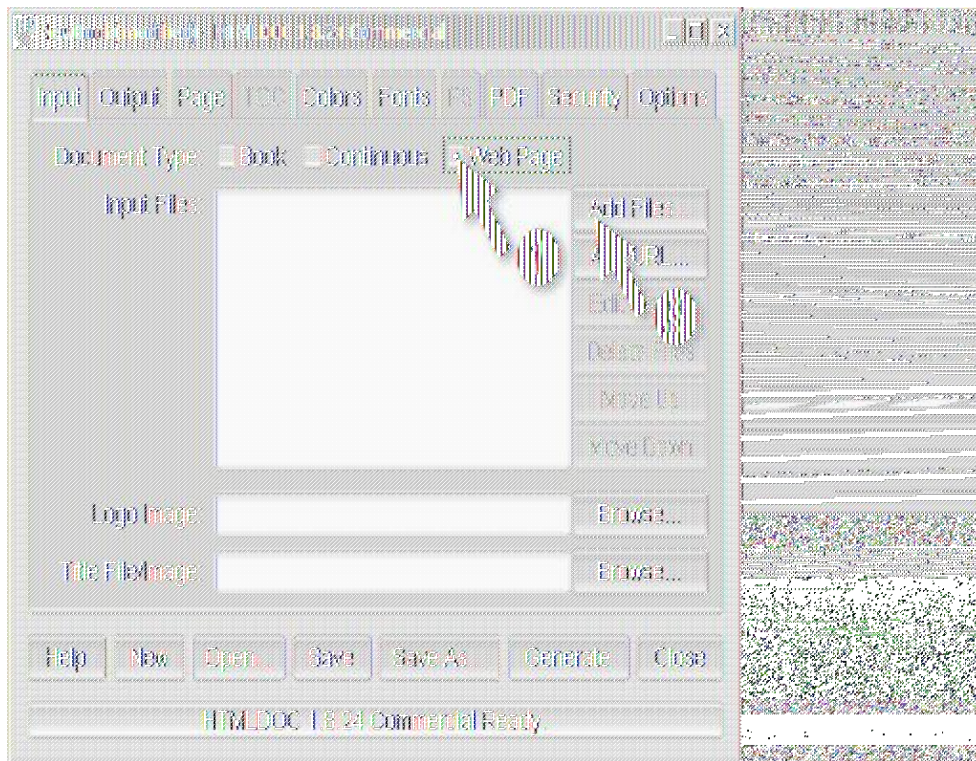


Figure 2-1 - The HTMLDOC Window

Then choose a file for conversion by clicking on the *Add Files...* button (2). When the file chooser dialog appears (Figure 2-2), double-click on the HTML file (3) you wish to convert from the list of files. If you don't see the file you wish to add, then double click on the folder with *../* (4) to see more file options.

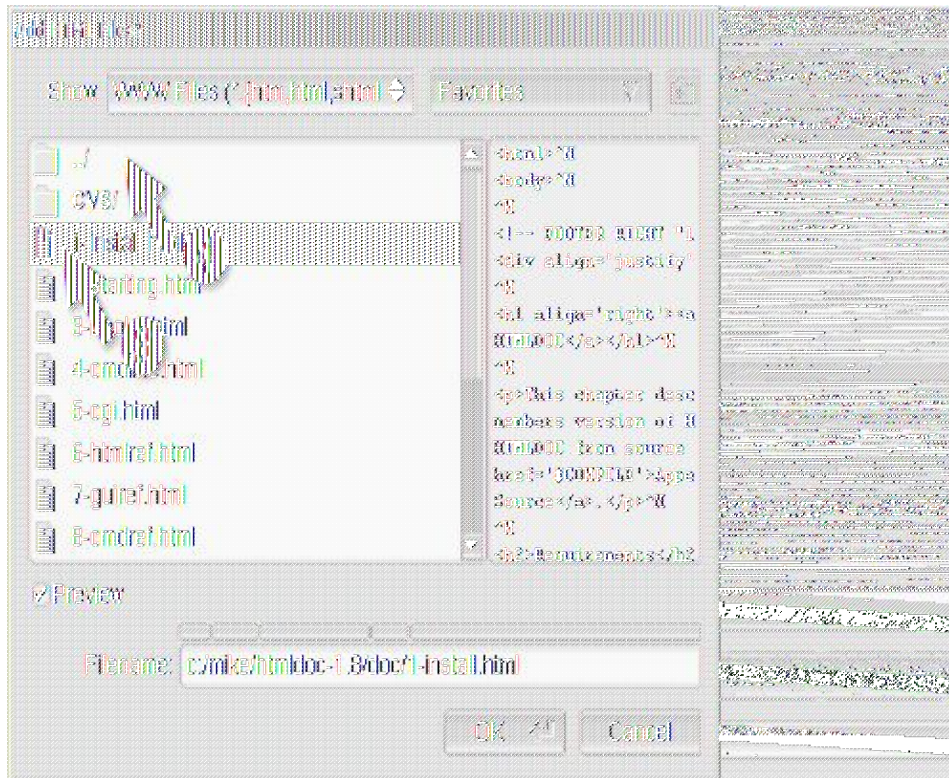


Figure 2-2 - The File Chooser Dialog

Setting the Output File

You've chosen your HTML files to be converted, now you need to save your file(s) somewhere. The output file is where you would do that. Click on the *Output* tab (5) to set the output file (Figure 2-3). You can either type the name of the output file into the *Output Path* field or click on the *Browse...* button (6) to find an acceptable output location. Clicking on browse allows you to put the new file in a specific folder for easy retrieval. When you click on a folder you will notice that the filename area and text is highlighted. Click a few times at the end of the file name path and add a slash (/) and the name of the new file. If you don't see the folder you want to put your document in, double click on the folder with ../after it.

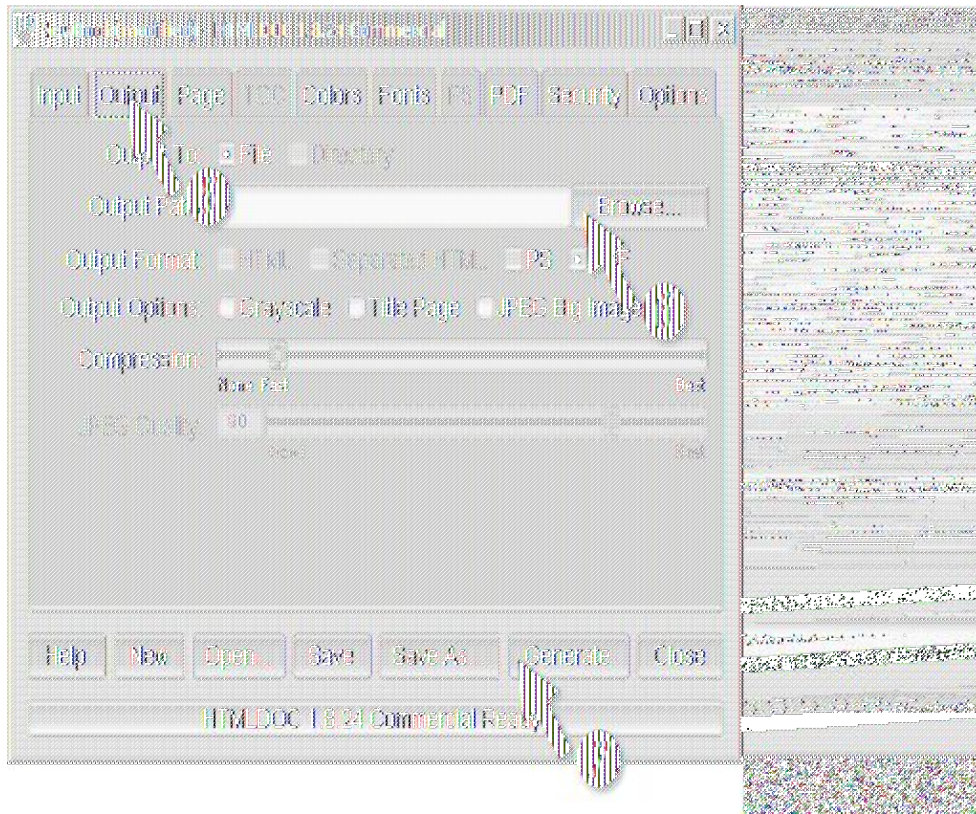


Figure 2-3 - The Output Tab

Generating the Document

You can generate the document by clicking on the *Generate* button (7) at the bottom of the HTMLDOC window. When the conversion is completed you can open the PDF file that is produced using Adobe Acrobat Reader or any other PDF viewing application.

Note:

The *Open* button at the bottom of the HTMLDOC GUI Open Window will not open the generated document for viewing. You will learn about the *Open* button in later chapters.

Chapter 3 - Generating Books

This chapter describes how to create a book using HTML files.

Overview

While HTMLDOC can convert web pages into PostScript and PDF files, its real strength is generating indexed HTML, PostScript, or PDF books.

HTMLDOC uses HTML heading elements to delineate chapters and headings in a book. The H1 element is used for chapters:

```
<HTML>
<HEAD>
  <TITLE>The Little Computer that Could</TITLE>
</HEAD>
<BODY>
<H1>Chapter 1 - The Little Computer is Born</H1>
...
<H1>Chapter 2 - Little Computer's First Task</H1>
...
</BODY>
</HTML>
```

Sub-headings are marked using the H2 through H6 elements.

Note:

When using book mode, HTMLDOC starts rendering with the first H1 element. Any text, images, tables, and other viewable elements that precede the first H1 element are silently ignored. Because of this, make sure you have an H1 element in your HTML file, otherwise HTMLDOC will not convert anything.

Choosing HTML Files

Start by clicking on the *Book* radio button (1) to specify you'll be converting one or more HTML files into a book.

Your next step is to choose one or more files for conversion by clicking on the *Add Files...* button (2). When the file chooser dialog appears, pick the file(s) you wish to convert and then click on the *OK* button. As discussed in Chapter 2, if you don't see the file that you want, double click on the folder with *../* after it.

Also, having all files and images in one folder will make file retrieval much easier.

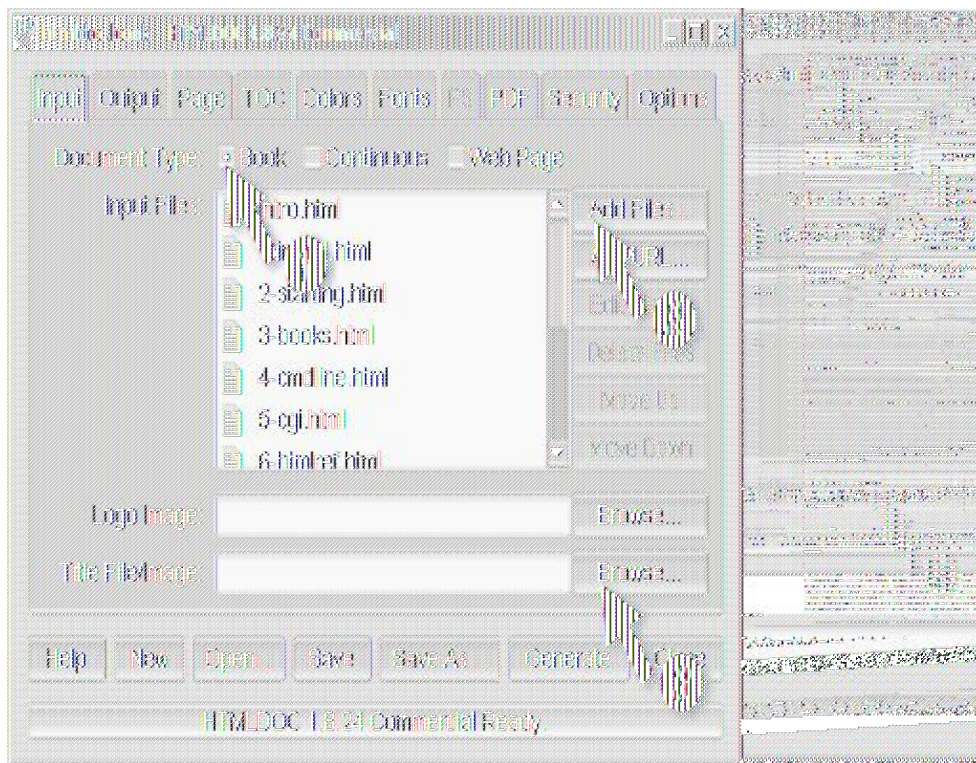


Figure 3-1: The Input Tab

Selecting a Title File

HTMLDOC can automatically create a title page for you. Fill in the *Title File/Image* field or click the *Browse...* button (3) to locate the file you want to use. If you don't see the file you want, double click on the folder with *../* after it.

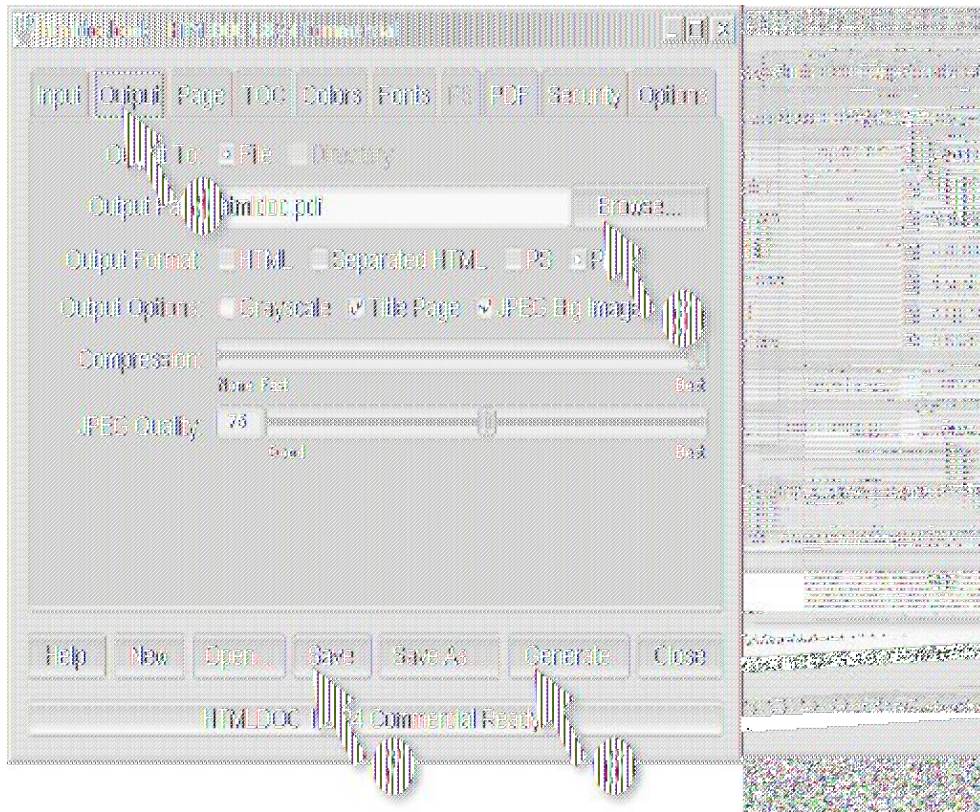


Figure 3-2: The Output Tab

Setting the Output Format

The output format is set in the *Output* tab (4). Click on the *Output* tab and then click on the *HTML*, *PS*, or *PDF* radio buttons to set the output format.

Setting the Output File

Now that you've chosen an output format, type the name of the output file into the *Output Path* field or click on the *Browse...* button (5) to select the output file using the file chooser.

Generating the Document

Once you have chosen the output file you can generate it by clicking on the *Generate* button (6) at the bottom of the HTMLDOC window.

Saving Your Book

HTMLDOC can save the list of HTML files, the title file, and all other options to a special *.BOOK* file so you can regenerate your book when you make changes to your HTML files.

Click on the *Save* button (7) to save the current book to a file.

Chapter 4 - HTMLDOC from the Command-Line

This chapter describes how to use HTMLDOC from the command-line to convert web pages and generate books.

Getting to the Command-Line on Windows

Do the following steps to access the command-line on Windows:

1. Click on *Start* at the bottom left corner of your screen
2. Click on *All Programs*
3. Click on *Accessories*
4. Click on *Command Prompt*

After you have clicked command prompt, your screen should look something like Figure 4-1.

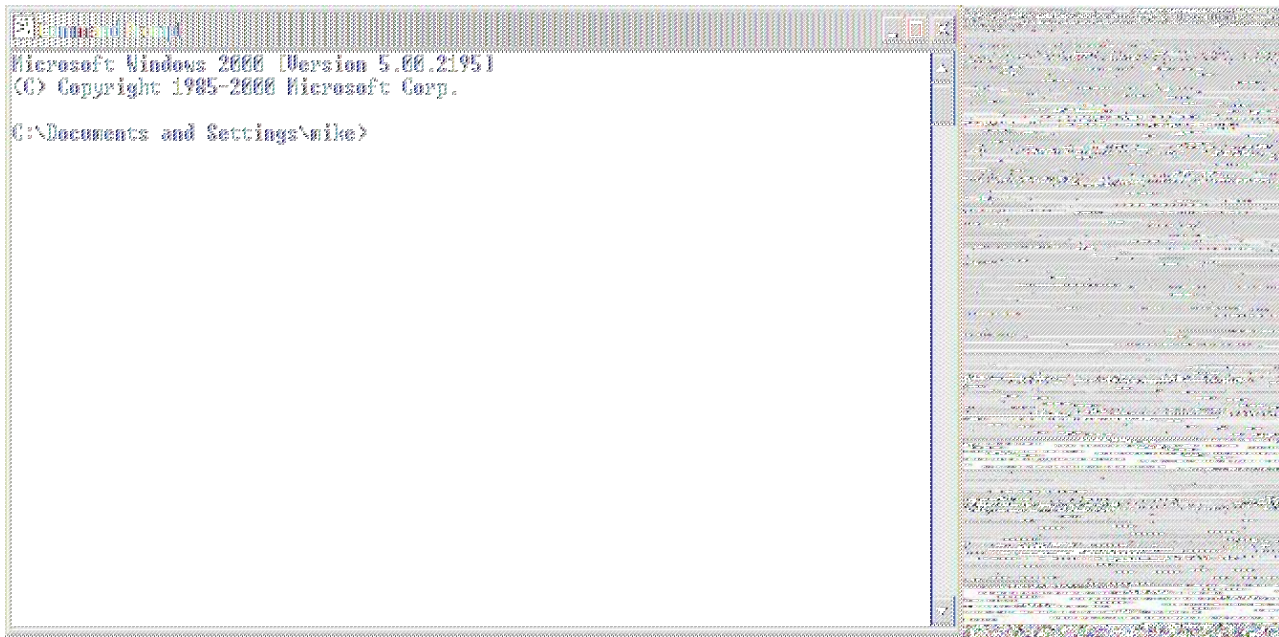


Figure 4-1: Command prompt window

To see what's in this directory, type the following command:

```
dir ENTER
```

You now have a list of available files and directories that you can use. To access a different directory simply type **cd** and the name of the new directory. For example, type the following if you want to access a directory called *Steve*:

```
cd Steve ENTER
```

The Basics of Command-Line Access

To convert a single web page type:

```
htmldoc --webpage -f output.pdf filename.html ENTER
```

What Are All These Commands?

`htmldoc` is the name of the software.

`--webpage` is the document type that specifies unstructured files with page breaks between each file.

`-f output.pdf` is the file name that you will save all the documents into and also the type of file it is. In this example it is a PDF file.

`filename.html` is the name of the file that you want to be converted and the type of file it is. In this example it is a HTML file.

Try the following exercise: You want to convert the file *myhtml.html* into a PDF file. The new file will be called *mypdf.pdf*. How would you do this? (Don't worry, it's answered for you on the next line. But try first.)

To accomplish this type:

```
htmldoc --webpage -f mypdf.pdf myhtml.html ENTER
```

Converting Multiple HTML Files

To convert more than one web page with page breaks between each HTML file, type:

```
htmldoc --webpage -f output.pdf file1.html file2.html ENTER
```

All we are doing is adding another file. In this example we are converting two files: *file1.html* and *file2.html*.

Try this example: Convert *one.html* and *two.html* into a PDF file named *12pdf.pdf*. Again, the answer is on the next line.

Your line command should look like this:

```
htmldoc --webpage -f 12pdf.pdf one.html two.html ENTER
```

We've been using HTML files, but you can also use URLs. For example:

```
htmldoc --webpage -f output.pdf http://slashdot.org/ ENTER
```

Generating Books

Type one of the following commands to generate a book from one or more HTML files:

```
htmldoc --book -f output.html file1.html file2.html ENTER
htmldoc --book -f output.pdf file1.html file2.html ENTER
htmldoc --book -f output.ps file1.html file2.html ENTER
```

What are all these commands?

htmldoc is the name of the software.

--book is a type of document that specifies that the input files are structured with headings.

-f output.html is where you want the converted files to go to. In this case, we requested the file be a HTML file. We could have made it a PDF (-f output.pdf) or Postscript (-f ouput.ps), too.

file1.html and file2.html are the files you want to convert.

HTMLDOC will build a table of contents for the book using the heading elements (H1, H2, etc.) in your HTML files. It will also add a title page using the document TITLE text (you're going to learn about title files shortly) and other META information you supply in your HTML files. See [Chapter 6 - HTML Reference](#) for more information on the META variables that are supported.

Note:

When using book mode, HTMLDOC starts rendering with the first H1 element. Any text, images, tables, and other viewable elements that precede the first H1 element are silently ignored. Because of this, make sure you have an H1 element in your HTML file, otherwise HTMLDOC will not convert anything!

Setting the Title File

The `--titlefile` option sets the HTML file or image to use on the title page:

```
htmldoc --titlefile filename.bmp ... ENTER
htmldoc --titlefile filename.gif ... ENTER
htmldoc --titlefile filename.jpg ... ENTER
htmldoc --titlefile filename.png ... ENTER
htmldoc --titlefile filename.html ... ENTER
```

HTMLDOC supports BMP, GIF, JPEG, and PNG images, as well as generic HTML text you supply for the title page(s).

Putting It All Together

```
htmldoc --book -f 12book.pdf 1book.html 2book.html --titlefile bookcover.jpg ENTER
```

Take a look at the entire command line. Dissect the information. Can you see what the new filename is? What are the names of the files being converted? Do you see the titlepage file? What kind of file is your titlefile?

Figure it out? The new file is *12book.pdf*. The files converted were *1book.html* and *2book.html*. A title page was created using the JPEG image file *bookcover.jpg*.

[Chapter 8 - Command Line Reference](#) digs deeper into what you can do with the the command line prompt.

Chapter 5 - Using HTMLDOC on a Web Server

This chapter describes how to interface HTMLDOC to your web server using CGI and your own server-side scripts and programs.

The Basics

HTMLDOC can be used in a variety of ways to generate formatted reports on a web server. The most common way is to use HTMLDOC as a CGI program with your web server to provide PDF-formatted output of a web page. Examples are provided for Microsoft IIS and the Apache web servers.

HTMLDOC can also be called from your own server-side scripts and programs. Examples are provided for PHP and Java.

WARNING:

Passing information directly from the web browser to HTMLDOC can potentially expose your system to security risks. Always be sure to "sanitize" any input from the web browser so that filenames, URLs, and options passed to HTMLDOC are not acted on by the shell program or other processes.

Using HTMLDOC as a CGI Program

HTMLDOC 1.8.24 and higher supports operation as a CGI program. You can copy or symlink the *htmldoc* (all but Windows) or *htmldoc.exe* (Windows) executable to your web server's *cgi-bin* directory and then use it to produce PDF versions of your web pages.

The CGI converts a page on your local server to PDF and sends it to the client's web browser. For example, to convert a page called *superproducts.html* at the following URL:

```
http://servername/superproducts.html
```

and if you installed HTMLDOC in your server's *cgi-bin* directory, you would direct your clients to the following URL:

```
http://servername/cgi-bin/htmldoc/superproducts.html
```

The boldface portion represents the location of the HTMLDOC executable on the web server. You simply place that path before the page you want to convert.

Form data using the GET method can be passed at the end of the URL, for example:

```
http://servername/cgi-bin/htmldoc/superproducts.html?name=value
```

Server-Side Preferences

When run as a CGI program, HTMLDOC will try to read a book file to set any preferences for the conversion to PDF. For the *superproducts.html* file described previously, HTMLDOC will look at the following URLs for a book file:

```
http://servername/superproducts.html.book  
http://servername/.book  
http://servername/cgi-bin/.book
```

The first book file that is found will be used.

Configuring HTMLDOC with Apache

The Apache web server is easily configured to use HTMLDOC. The simplest way is to copy or symlink the *htmldoc* executable to the configured *cgi-bin* directory. For example, if your Apache installation is configured to look for CGI programs in the */var/www/cgi-bin* directory, the default for Apache on Red Hat Linux, then the command to install HTMLDOC on your web server would be:

```
ln -s /usr/bin/htmldoc /var/www/cgi-bin ENTER
```

If you are using Apache 2.0.30 or higher, you will also need to enable `PATH_INFO` support by adding the following line to your *httpd.conf* file:

```
AcceptPathInfo On
```

Apache also allows you to associate CGI programs with a specific extension. If you add the following line to your *httpd.conf* file:

```
AddHandler cgi-script .cgi
```

and enable CGI execution with the `Options` directive for a directory:

```
Options +ExecCGI
```

then you can copy or symlink the *htmldoc* executable to an alternate location. For example, if you have a web directory called */var/www/htdocs/products*, you can install HTMLDOC in this directory with the following command:

```
ln -s /usr/bin/htmldoc /var/www/htdocs/products/htmldoc.cgi ENTER
```


Configuring HTMLDOC with Microsoft IIS

The IIS web server is configured to run CGI programs by either modifying the permissions of an existing directory or by creating a new virtual directory that allows for execution of programs. Start by running the *Internet Services Manager* program (Figure 5-1):

1. Click on *Start*
2. Click on *Settings*
3. Click on *Control Panel*
4. Double-click on *Administrative Tools*
5. Double-click on *Internet Services Manager*

After the *Internet Services Manager* window (Figure 5-1) appears, perform the following steps to add a virtual folder for HTMLDOC:

1. Click on your server in the list to show the default web site service in the list (Figure 5-2)
2. Choose *New->Virtual Directory* from the *Action* menu (Figure 5-3)
3. Click *Next* when the *Virtual Directory Creation Wizard* window appears (Figure 5-4)
4. Enter the name `htmldoc` in the *Alias* field and click *Next* (Figure 5-5)
5. Enter the HTMLDOC program folder in the *Directory* field and click *Next* (Figure 5-6)
6. Check the *Execute (such as ISAPI applications or CGI)* box and click *Next* (Figure 5-7)
7. Click *Finish* to dismiss the wizard (Figure 5-8)

If you are using IIS 6.0, proceed to the next section titled, "Additional Configuration for IIS 6.0".

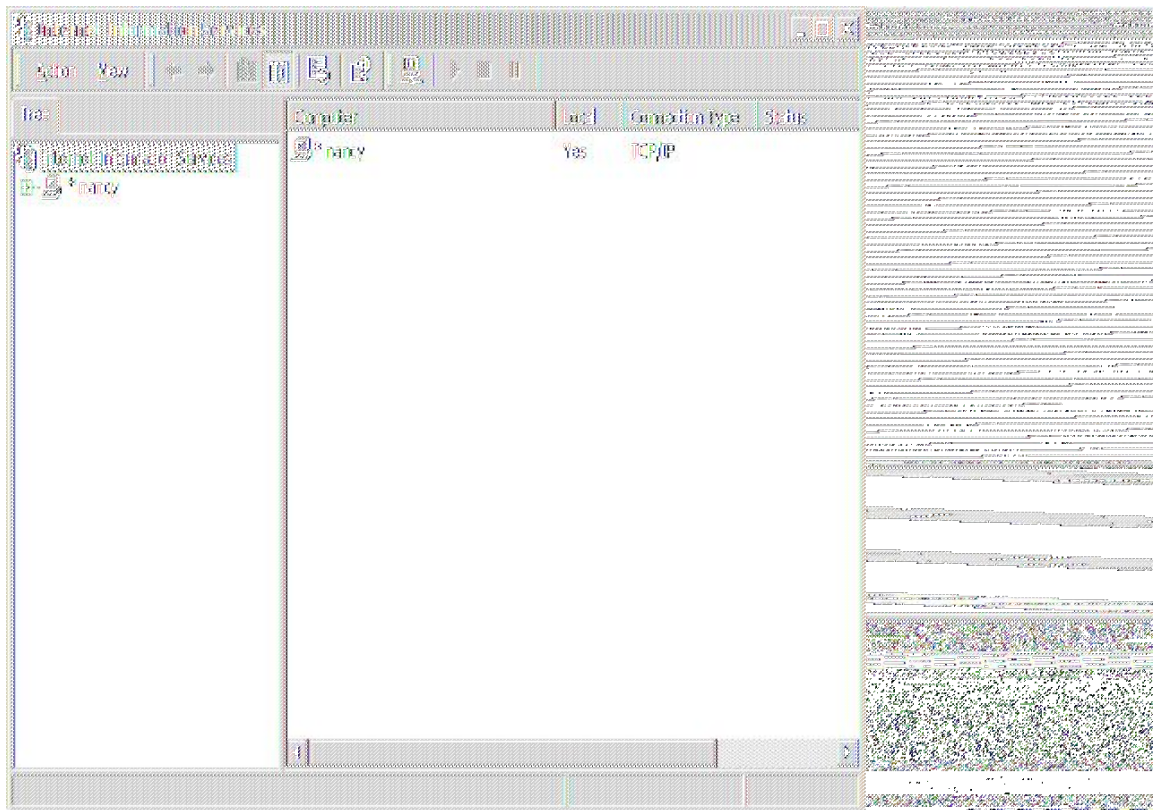


Figure 5-1: The Internet Services Manager Window

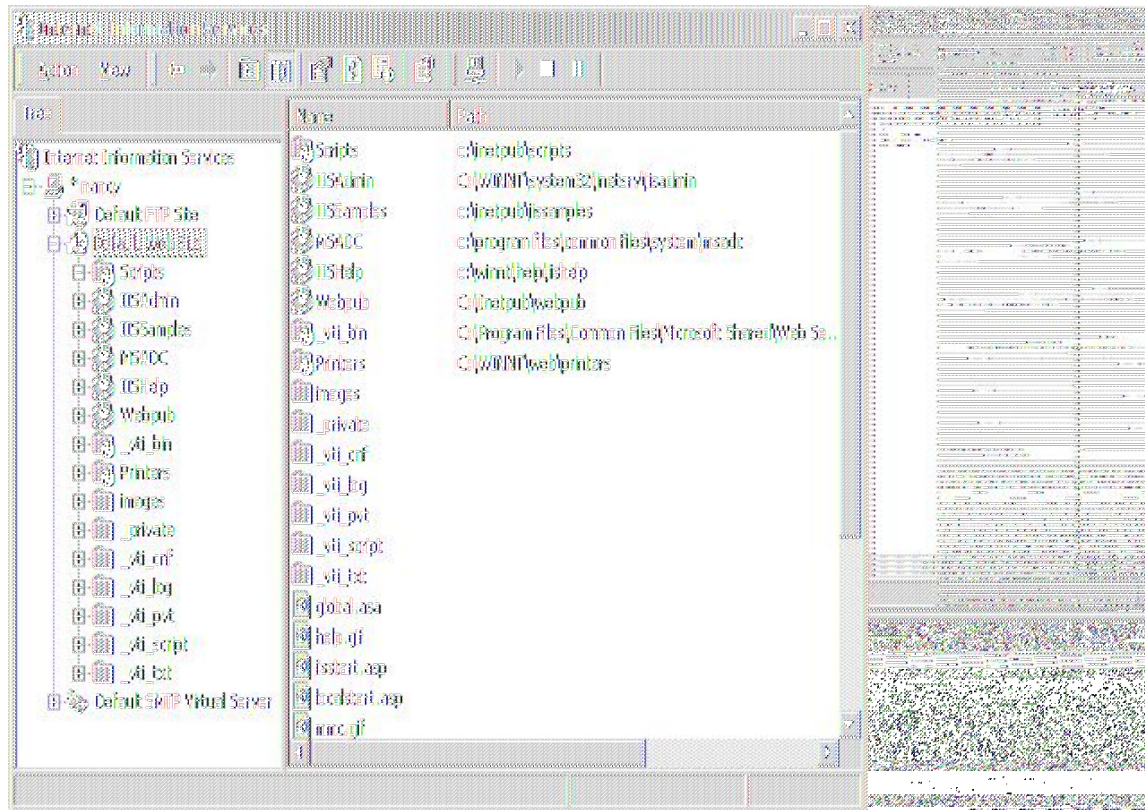


Figure 5-2: The Default Web Site Service

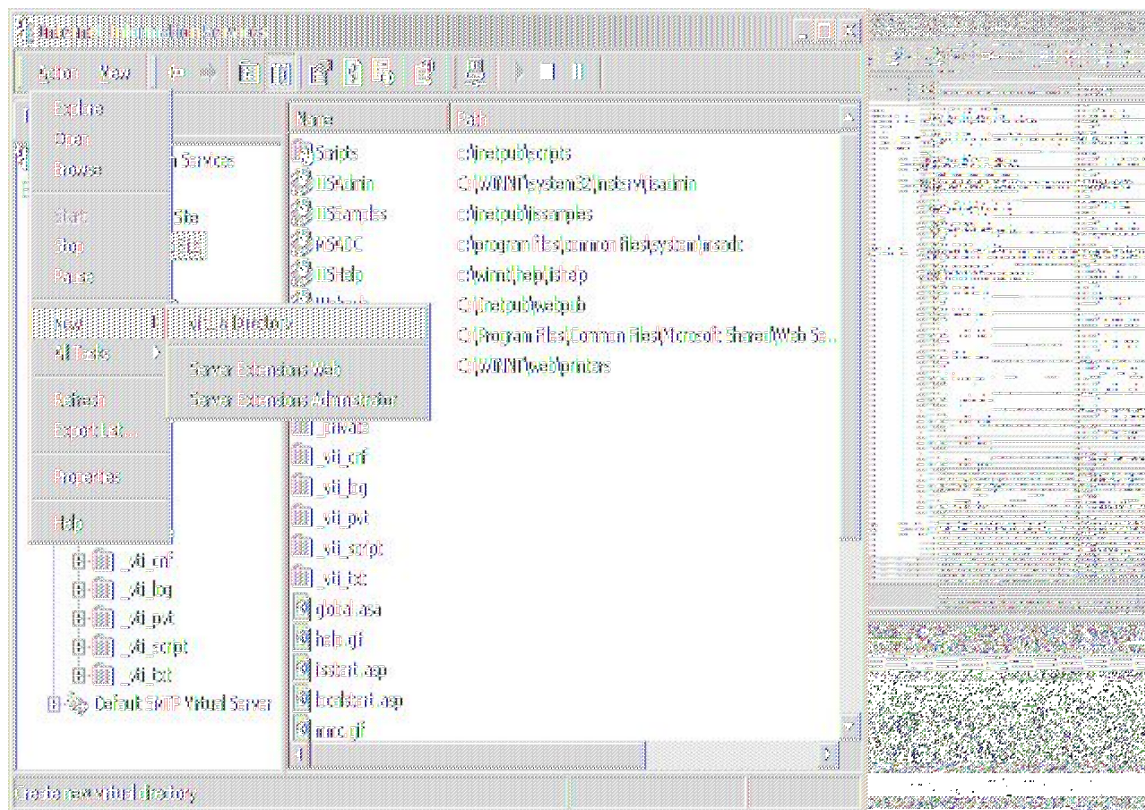


Figure 5-3: Adding a New Virtual Directory

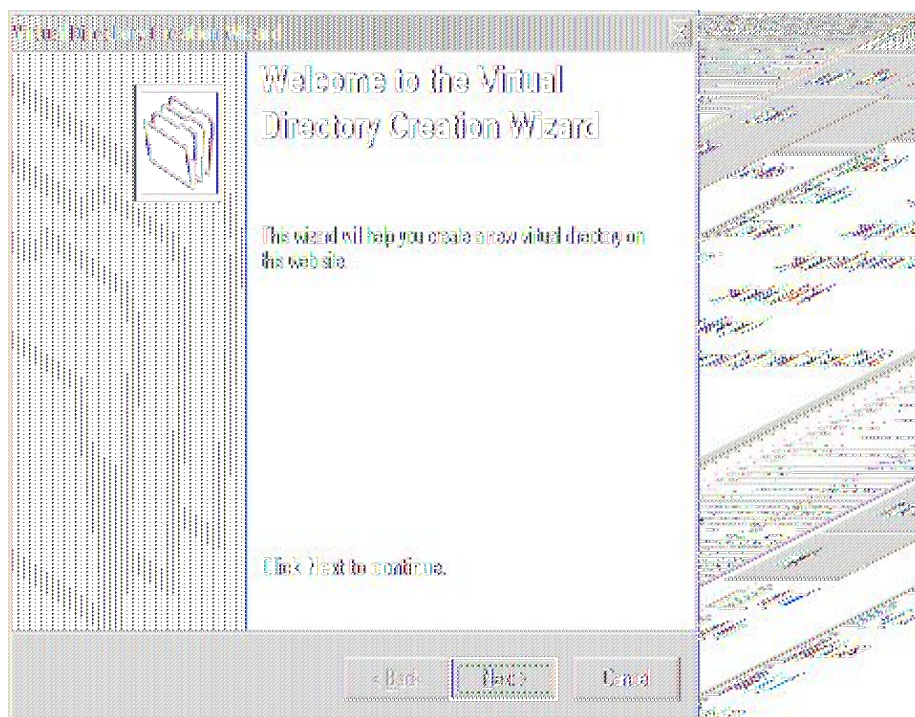


Figure 5-4: The Virtual Directory Creation Wizard Window

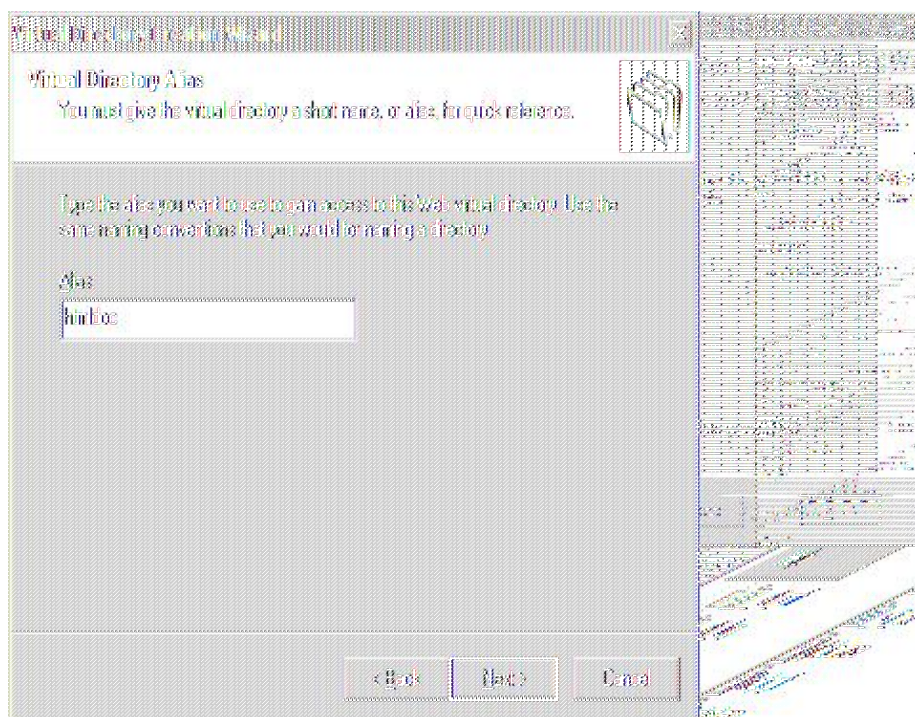


Figure 5-5: Entering the Alias Name

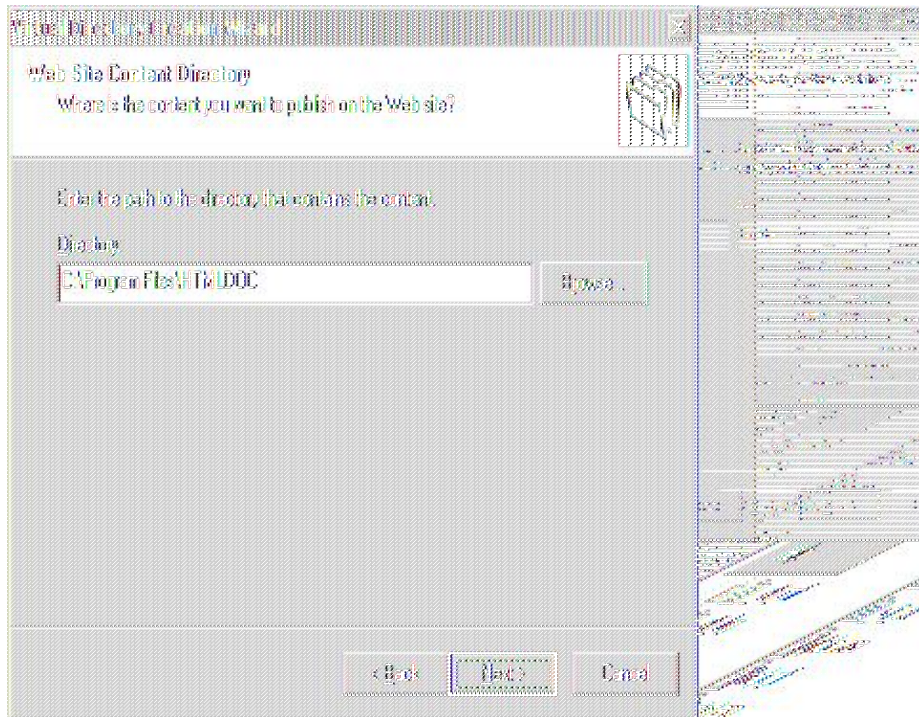


Figure 5-6: Entering the HTMLDOC Program Folder

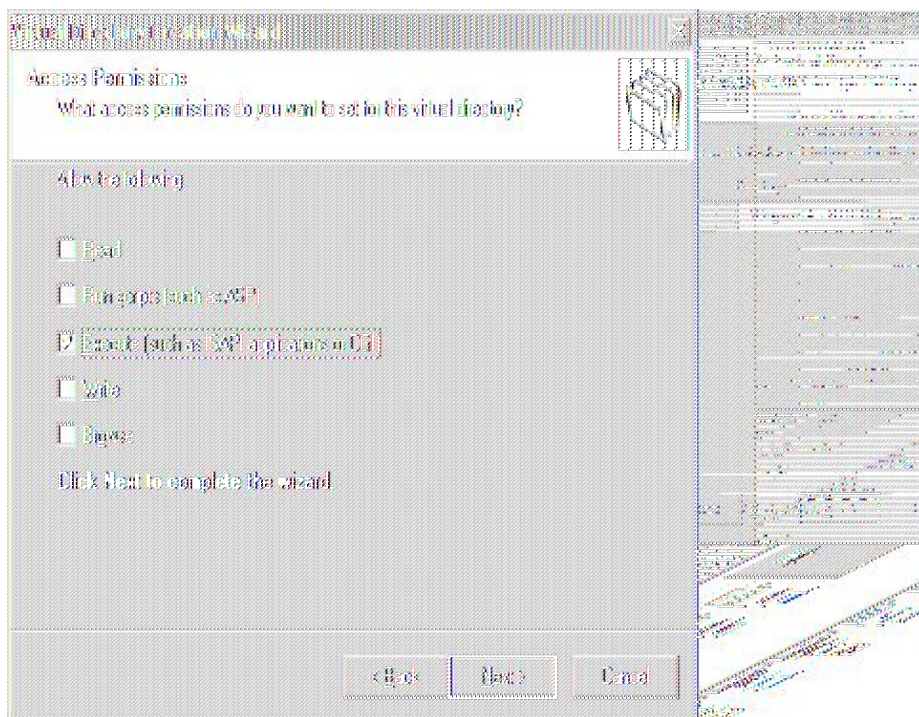


Figure 5-7: Enabling CGI Mode

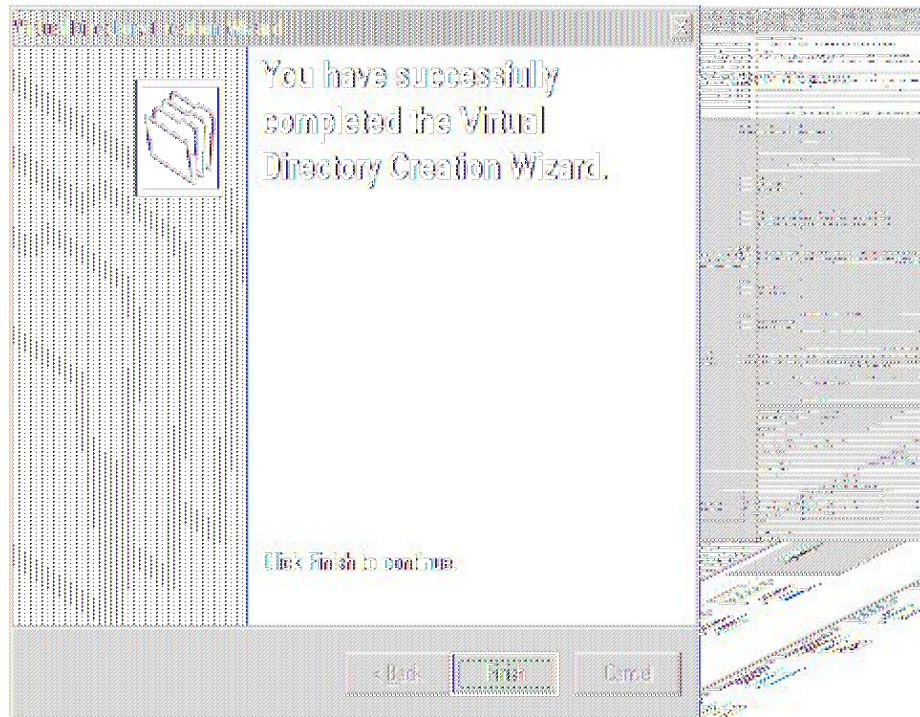


Figure 5-8: Completion of IIS Configuration

Once configured, the *htmldoc.exe* program will be available in the web server directory. For example, for a virtual directory called *cgi-bin*, the PDF converted URL for the *superproducts.html* page would be as follows:

```
http://servername/cgi-bin/htmldoc.exe/superproducts.html
```

The boldface portion represents the location of the HTMLDOC program on the web server.

Additional Configuration for IIS 6.0

IIS 6.0 requires additional configuration steps due to its increased focus on security. Start by running the *Internet Services Manager* program (Figure 5-1):

1. Click on *Start*
2. Click on *Settings*
3. Click on *Control Panel*
4. Double-click on *Administrative Tools*
5. Double-click on *Internet Services Manager*

After the *Internet Services Manager* window (Figure 5-1) appears, perform the following steps to add a new Web Service Extension for HTMLDOC:

1. Click on *Web Service Extensions*
2. Click *Add a new Web Service Extension*
3. Enter the name "HTMLDOC" when the *Web Service Extension* window appears
4. Click *Add...* and choose the *htmldoc.exe* file from the program folder, typically *C:\Program Files\Easy Software Products\HTMLDOC*
5. Check the *Set extension status to Allowed* box
6. Click *OK* to add the extension and dismiss the window

Finally, double-click the *My Computer* icon on the desktop or start the *Windows Explorer*. When the explorer window appears, perform the following steps to provide write access to the Windows temporary folder:

1. Open the windows temporary file folder, typically *C:\WINDOWS\TEMP*
2. Choose *Properties* from the *File* menu
3. Click on the *Security* tab
4. Click *Add...*, enter the username for the web server, typically "SERVER\IUSR_SERVER" where "SERVER" is the name you gave your server, and click *OK*
5. Click on the username you just added in the list
6. Check the *Read* and *Write* permissions
7. Click *OK* to save the changes

Using HTMLDOC From Server-Side Scripts and Programs

To make this work the CGI script or program must send the appropriate HTTP attributes, the required empty line to signify the beginning of the document, and then execute the HTMLDOC program to generate the HTML, PostScript, or PDF file as needed. Since HTMLDOC looks for CGI environment variables when it is run, you must also set the HTMLDOC_NOCGI environment variable to a value of 1 before running HTMLDOC from your CGI script or program.

Another way to generate PDF files from your reports is to use HTMLDOC as a "portal" application. When used as a portal, HTMLDOC automatically retrieves the named document or report from your server and passes a PDF version to the web browser. See the next sections for more information.

Calling HTMLDOC from a Shell Script

Shell scripts are probably the easiest to work with, but are normally limited to GET type requests. Here is a script called *topdf* that acts as a portal, converting the named file to PDF:

```
#!/bin/sh
#
# Sample "portal" script to convert the named HTML file to PDF on-the-fly.
#
# Usage: http://www.domain.com/path/topdf/path/filename.html
#
#
# Tell HTMLDOC not to run in CGI mode...
#

HTMLDOC_NOCGI=1; export HTMLDOC_NOCGI

#
# The "options" variable contains any options you want to pass to HTMLDOC.
#

options='-t pdf --webpage --header ... --footer ...'

#
# Tell the browser to expect a PDF file...
#

echo "Content-Type: application/pdf"
echo ""

#
# Run HTMLDOC to generate the PDF file...
#

htmldoc $options http://${SERVER_NAME}:${SERVER_PORT}$PATH_INFO
```

Users of this CGI would reference the URL "http://www.domain.com/topdf.cgi/index.html" to generate a PDF file of the site's home page.

The *options* variable in the script can be set to use any supported command-line option for HTMLDOC; for a complete list see [Chapter 8 - Command-Line Reference](#).

Calling HTMLDOC from Perl

Perl scripts offer the ability to generate more complex reports, pull data from databases, etc. The easiest way to interface Perl scripts with HTMLDOC is to write a report to a temporary file and then execute HTMLDOC to generate the PDF file.

Here is a simple Perl subroutine that can be used to write a PDF report to the HTTP client:

```
sub topdf {
    # Get the filename argument...
    my $filename = shift;

    # Make stdout unbuffered...
    select(STDOUT); $| = 1;

    # Tell HTMLDOC not to run in CGI mode...
    $ENV{HTMLDOC_NOCGI} = 1;

    # Write the content type to the client...
    print "Content-Type: application/pdf\n\n";

    # Run HTMLDOC to provide the PDF file to the user...
    system "htmldoc -t pdf --quiet --webpage $filename";
}
```

Calling HTMLDOC from PHP

PHP is quickly becoming the most popular server-side scripting language available. PHP provides a `passthru()` function that can be used to run HTMLDOC. This combined with the `header()` function can be used to provide on-the-fly reports in PDF format.

Here is a simple PHP function that can be used to convert a HTML report to PDF and send it to the HTTP client:

```
function topdf($filename, $options = "") {
    # Tell HTMLDOC not to run in CGI mode...
    putenv("HTMLDOC_NOCGI=1");

    # Write the content type to the client...
    header("Content-Type: application/pdf");
    flush();

    # Run HTMLDOC to provide the PDF file to the user...
    passthru("htmldoc -t pdf --quiet --jpeg --webpage $options '$filename'");
}
```

The function accepts a filename and an optional "options" string for specifying the header, footer, fonts, etc.

To prevent malicious users from passing in unauthorized characters into this function, the following function can be used to verify that the URL/filename does not contain any characters that might be interpreted by the shell:


```

function bad_url($url) {
    // See if the URL starts with http: or https:...
    if (strncmp($url, "http://", 7) != 0 &&
        strncmp($url, "https://", 8) != 0) {
        return 1;
    }

    // Check for bad characters in the URL...
    $len = strlen($url);
    for ($i = 0; $i < $len; $i++) {
        if (!strchr("~_*/:~*()/:%?+-&@;=, $.", $url[$i]) &&
            !ctype_alnum($url[$i])) {
            return 1;
        }
    }

    return 0;
}

```

Another method is to use the `escapeshellarg()` function provided with PHP 4.0.3 and higher to generate a quoted shell argument for HTMLDOC.

To make a "portal" script, add the following code to complete the example:

```

global $SERVER_NAME;
global $SERVER_PORT;
global $PATH_INFO;
global $QUERY_STRING;

if ($QUERY_STRING != "") {
    $url = "http://${SERVER_NAME}:${SERVER_PORT}${PATH_INFO}?${QUERY_STRING}";
} else {
    $url = "http://${SERVER_NAME}:${SERVER_PORT}${PATH_INFO}";
}

if (bad_url($url)) {
    print("<html><head><title>Bad URL</title></head>\n"
        . "<body><h1>Bad URL</h1>\n"
        . "<p>The URL <b><tt>$url</tt></b> is bad.</p>\n"
        . "</body></html>\n");
} else {
    topdf($url);
}

```

Calling HTMLDOC from C

C programs offer the best flexibility and easily supports on-the-fly report generation without the need for temporary files.

Here are some simple C functions that can be used to generate a PDF report to the HTTP client from a temporary file or pipe:

```
#include <stdio.h>
#include <stdlib.h>

/* topdf() - convert a HTML file to PDF */
FILE *topdf(const char *filename)          /* I - HTML file to convert */
{
    char      command[1024];               /* Command to execute */

    /*
     * Tell HTMLDOC not to run in CGI mode...
     */

    putenv("HTMLDOC_NOCGI=1");

    /*
     * Write the content type to the client...
     */

    puts("Content-Type: application/pdf\n");

    /*
     * Run HTMLDOC to provide the PDF file to the user...
     */

    sprintf(command, "htmldoc --quiet -t pdf --webpage %s", filename);

    return (popen(command, "w"));
}

/* topdf2() - pipe HTML output to HTMLDOC for conversion to PDF */
FILE *topdf2(void)
{
    /*
     * Tell HTMLDOC not to run in CGI mode...
     */

    putenv("HTMLDOC_NOCGI=1");

    /*
     * Write the content type to the client...
     */

    puts("Content-Type: application/pdf\n");

    /*
     * Open a pipe to HTMLDOC...
     */

    return (popen("htmldoc --quiet -t pdf --webpage -", "w"));
}
```

Calling HTMLDOC from Java

Java programs are a portable way to add PDF support to your web server. Here is a class called *htmldoc* that acts as a portal, converting the named file to PDF. It can also be called by your Java servlets to process an HTML file and send the result to the client in PDF format:

```
class htmldoc
{
    // Convert named file to PDF on stdout...
    public static int topdf(String filename)// I - Name of file to convert
    {
        String          command;          // Command string
        Process          process;          // Process for HTMLDOC
        Runtime          runtime;          // Local runtime object
        java.io.InputStream input;         // Output from HTMLDOC
        byte             buffer [];        // Buffer for output data
        int              bytes;            // Number of bytes

        // First tell the client that we will be sending PDF...
        System.out.print("Content-type: application/pdf\n\n");

        // Construct the command string
        command = "htmldoc --quiet --jpeg --webpage -t pdf --left 36 " +
            "--header .t. --footer .l. " + filename;

        // Run the process and wait for it to complete...
        runtime = Runtime.getRuntime();

        try
        {
            // Create a new HTMLDOC process...
            process = runtime.exec(command);

            // Get stdout from the process and a buffer for the data...
            input = process.getInputStream();
            buffer = new byte[8192];

            // Read output from HTMLDOC until we have it all...
            while ((bytes = input.read(buffer)) > 0)
                System.out.write(buffer, 0, bytes);

            // Return the exit status from HTMLDOC...
            return (process.waitFor());
        }
        catch (Exception e)
        {
            // An error occurred - send it to stderr for the web server...
            System.err.print(e.toString() + " caught while running:\n\n");
            System.err.print("      " + command + "\n");
            return (1);
        }
    }

    // Main entry for htmldoc class
    public static void main(String[] args)// I - Command-line args
    {
        String server_name,                // SERVER_NAME env var
            server_port,                    // SERVER_PORT env var
            path_info,                      // PATH_INFO env var
            query_string,                   // QUERY_STRING env var
            filename;                       // File to convert

        if ((server_name = System.getProperty("SERVER_NAME")) != null &&
```

```
(server_port = System.getProperty("SERVER_PORT")) != null &&
(path_info = System.getProperty("PATH_INFO")) != null)
{
    // Construct a URL for the resource specified...
    filename = "http://" + server_name + ":" + server_port + path_info;

    if ((query_string = System.getProperty("QUERY_STRING")) != null)
    {
        filename = filename + "?" + query_string;
    }
}
else if (args.length == 1)
{
    // Pull the filename from the command-line...
    filename = args[0];
}
else
{
    // Error - no args or env variables!
    System.err.print("Usage: htmldoc.class filename\n");
    return;
}

// Convert the file to PDF and send to the web client...
topdf(filename);
}
```

Chapter 6 - HTML Reference

This chapter defines all of the HTML elements and attributes that are recognized and supported by HTMLDOC.

General Usage

There are two types of HTML files - structured documents using headings (H1, H2, etc.) which HTMLDOC calls "books", and unstructured documents that do not use headings which HTMLDOC calls "web pages".

A very common mistake is to try converting a web page using:

```
htmldoc -f filename.pdf filename.html
```

which will likely produce a PDF file with no pages. To convert web page files you **must** use the `--webpage` option at the command-line or choose *Web Page* in the input tab of the GUI.

Note:

HTMLDOC does not support HTML 4.0 elements, attributes, stylesheets, or scripting.

Elements

The following HTML elements are recognized by HTMLDOC:

Element	Version	Supported?	Notes
!DOCTYPE	3.0	Yes	DTD is ignored
A	1.0	Yes	See Below
ACRONYM	2.0	Yes	No font change
ADDRESS	2.0	Yes	
AREA	2.0	No	
B	1.0	Yes	
BASE	2.0	No	
BASEFONT	1.0	No	
BIG	2.0	Yes	
BLINK	2.0	No	
BLOCKQUOTE	2.0	Yes	
BODY	1.0	Yes	
BR	2.0	Yes	
CAPTION	2.0	Yes	
CENTER	2.0	Yes	
CITE	2.0	Yes	Italic/Oblique
CODE	2.0	Yes	Courier
DD	2.0	Yes	
DEL	2.0	Yes	Strikethrough
DFN	2.0	Yes	Helvetica
DIR	2.0	Yes	
DIV	3.2	Yes	
DL	2.0	Yes	
DT	2.0	Yes	Italic/Oblique
EM	2.0	Yes	Italic/Oblique
EMBED	2.0	Yes	HTML Only
FONT	2.0	Yes	See Below
FORM	2.0	No	
FRAME	3.2	No	

Element	Version	Supported?	Notes
FRAMESET	3.2	No	
H1	1.0	Yes	Boldface, See Below
H2	1.0	Yes	Boldface, See Below
H3	1.0	Yes	Boldface, See Below
H4	1.0	Yes	Boldface, See Below
H5	1.0	Yes	Boldface, See Below
H6	1.0	Yes	Boldface, See Below
HEAD	1.0	Yes	
HR	1.0	Yes	See Below
HTML	1.0	Yes	
I	1.0	Yes	
IMG	1.0	Yes	See Below
INPUT	2.0	No	
INS	2.0	Yes	Underline
ISINDEX	2.0	No	
KBD	2.0	Yes	Courier Bold
LI	2.0	Yes	
LINK	2.0	No	
MAP	2.0	No	
MENU	2.0	Yes	
META	2.0	Yes	See Below
MULTICOL	N3.0	No	
NOBR	1.0	No	
NOFRAMES	3.2	No	
OL	2.0	Yes	
OPTION	2.0	No	
P	1.0	Yes	
PRE	1.0	Yes	
S	2.0	Yes	Strikethrough
SAMP	2.0	Yes	Courier
SCRIPT	2.0	No	

Element	Version	Supported?	Notes
SELECT	2.0	No	
SMALL	2.0	Yes	
SPACER	N3.0	Yes	
STRIKE	2.0	Yes	
STRONG	2.0	Yes	Boldface Italic/Oblique
SUB	2.0	Yes	Reduced Fontsize
SUP	2.0	Yes	Reduced Fontsize
TABLE	2.0	Yes	<u>See Below</u>
TD	2.0	Yes	
TEXTAREA	2.0	No	
TH	2.0	Yes	Boldface Center
TITLE	2.0	Yes	
TR	2.0	Yes	
TT	2.0	Yes	Courier
U	1.0	Yes	
UL	2.0	Yes	
VAR	2.0	Yes	Helvetica Oblique
WBR	1.0	No	

Comments

HTMLDOC supports many special HTML comments to initiate page breaks, set the header and footer text, and control the current media options:

```
<!-- FOOTER LEFT "foo" -->
    Sets the left footer text; the test is applied to the current page if empty, or the next page otherwise.
<!-- FOOTER CENTER "foo" -->
    Sets the center footer text; the test is applied to the current page if empty, or the next page otherwise.
<!-- FOOTER RIGHT "foo" -->
    Sets the right footer text; the test is applied to the current page if empty, or the next page otherwise.
<!-- HALF PAGE -->
    Break to the next half page.
<!-- HEADER LEFT "foo" -->
    Sets the left header text; the test is applied to the current page if empty, or the next page otherwise.
<!-- HEADER CENTER "foo" -->
    Sets the center header text; the test is applied to the current page if empty, or the next page otherwise.
```



```

<!-- HEADER RIGHT "foo" -->
    Sets the right header text; the test is applied to the current page if empty, or the next page otherwise.
<!-- MEDIA BOTTOM nnn -->
    Sets the bottom margin of the page. The "nnn" string can be any standard measurement value, e.g. 0.5in, 36, 12mm, etc. Breaks to a new page if the current page is already marked.
<!-- MEDIA COLOR "foo" -->
    Sets the media color attribute for the page. The "foo" string is any color name that is supported by the printer, e.g. "Blue", "White", etc. Breaks to a new page or sheet if the current page is already marked.
<!-- MEDIA DUPLEX NO -->
    Chooses single-sided printing for the page; breaks to a new page or sheet if the current page is already marked.
<!-- MEDIA DUPLEX YES -->
    Chooses double-sided printing for the page; breaks to a new sheet if the current page is already marked.
<!-- MEDIA LANDSCAPE NO -->
    Chooses portrait orientation for the page; breaks to a new page if the current page is already marked.
<!-- MEDIA LANDSCAPE YES -->
    Chooses landscape orientation for the page; breaks to a new page if the current page is already marked.
<!-- MEDIA LEFT nnn -->
    Sets the left margin of the page. The "nnn" string can be any standard measurement value, e.g. 0.5in, 36, 12mm, etc. Breaks to a new page if the current page is already marked.
<!-- MEDIA POSITION nnn -->
    Sets the media position attribute (input tray) for the page. The "nnn" string is an integer that usually specifies the tray number. Breaks to a new page or sheet if the current page is already marked.
<!-- MEDIA RIGHT nnn -->
    Sets the right margin of the page. The "nnn" string can be any standard measurement value, e.g. 0.5in, 36, 12mm, etc. Breaks to a new page if the current page is already marked.
<!-- MEDIA SIZE foo -->
    Sets the media size to the specified size. The "foo" string can be "Letter", "Legal", "Universal", or "A4" for standard sizes or "WIDTHxHEIGHTunits" for custom sizes, e.g. "8.5x11in"; breaks to a new page or sheet if the current page is already marked.
<!-- MEDIA TOP nnn -->
    Sets the top margin of the page. The "nnn" string can be any standard measurement value, e.g. 0.5in, 36, 12mm, etc. Breaks to a new page if the current page is already marked.
<!-- MEDIA TYPE "foo" -->
    Sets the media type attribute for the page. The "foo" string is any type name that is supported by the printer, e.g. "Plain", "Glossy", etc. Breaks to a new page or sheet if the current page is already marked.
<!-- NEED length -->
    Break if there is less than length units left on the current page. The length value defaults to lines of text but can be suffixed by in, mm, or cm to convert from the corresponding units.
<!-- NEW PAGE -->
    Break to the next page.
<!-- NEW SHEET -->
    Break to the next sheet.
<!-- NUMBER-UP nn -->
    Sets the number of pages that are placed on each output page. Valid values are 1, 2, 4, 6, 9, and 16.
<!-- PAGE BREAK -->
    Break to the next page.

```

Header/Footer Strings

The HEADER and FOOTER comments allow you to set an arbitrary string of text for the left, center, and right headers and footers. Each string consists of plain text; special values or strings can be inserted using the dollar sign (\$):

\$\$
 Inserts a single dollar sign in the header.

\$CHAPTER
 Inserts the current chapter heading.

\$CHAPTERPAGE
\$CHAPTERPAGE (format)
 Inserts the current page number within a chapter or file. When a format is specified, uses that numeric format (1 = decimal, i = lowercase roman numerals, I = uppercase roman numerals, a = lowercase ascii, A = uppercase ascii) for the page numbers.

\$CHAPTERPAGES
\$CHAPTERPAGES (format)
 Inserts the total page count within a chapter or file. When a format is specified, uses that numeric format (1 = decimal, i = lowercase roman numerals, I = uppercase roman numerals, a = lowercase ascii, A = uppercase ascii) for the page count.

\$DATE
 Inserts the current date.

\$HEADING
 Inserts the current heading.

\$LOGOIMAGE
 Inserts the logo image; all other text in the string will be ignored.

\$PAGE
\$PAGE (format)
 Inserts the current page number. When a format is specified, uses that numeric format (1 = decimal, i = lowercase roman numerals, I = uppercase roman numerals, a = lowercase ascii, A = uppercase ascii) for the page numbers.

\$PAGES
\$PAGES (format)
 Inserts the total page count. When a format is specified, uses that numeric format (1 = decimal, i = lowercase roman numerals, I = uppercase roman numerals, a = lowercase ascii, A = uppercase ascii) for the page count.

\$TIME
 Inserts the current time.

\$TITLE
 Inserts the document title.

FONT Attributes

Limited typeface specification is currently supported to ensure portability across platforms and for older PostScript printers:

Requested Font	Actual Font
Arial	Helvetica
Courier	Courier
Dingbats	Dingbats
Helvetica	Helvetica
Monospace	DejaVu Sans Mono
Sans	DejaVu Sans
Serif	DejaVu Serif
Symbol	Symbol
Times	Times

All other unrecognized typefaces are silently ignored.

Headings

Currently HTMLDOC supports a maximum of 1000 chapters (H1 headings). This limit can be increased by changing the MAX_CHAPTERS constant in the *config.h* file included with the source code.

All chapters start with a top-level heading (H1) markup. Any headings within a chapter must be of a lower level (H2 to H15). Each chapter starts a new page or the next odd-numbered page if duplexing is selected.

Note:

Heading levels 7 to 15 are not standard HTML and will not likely be recognized by most web browsers.

The headings you use within a chapter must start at level 2 (H2). If you skip levels the heading will be shown under the last level that was known. For example, if you use the following hierarchy of headings:

```
<H1>Chapter Heading</H1>
...
<H2>Section Heading 1</H2>
...
<H2>Section Heading 2</H2>
...
<H3>Sub-Section Heading 1</H3>
...
<H4>Sub-Sub-Section Heading 1</H4>
...
<H4>Sub-Sub-Section Heading 2</H4>
...
<H3>Sub-Section Heading 2</H3>
...
<H2>Section Heading 3</H2>
```

```
...
<H4>Sub-Sub-Section Heading 3</H4>
...
```

the table-of-contents that is generated will show:

Chapter Heading

- ◆ Section Heading 1
- ◆ Section Heading 2
 - ◇ Sub-Section Heading 1
 - Sub-Sub-Section Heading 1
 - Sub-Sub-Section Heading 2
 - ◇ Sub-Section Heading 2
 - Sub-Sub-Section Heading 3
- ◆ Section Heading 3

Numbered Headings

When the numbered headings option is enabled, HTMLDOC recognizes the following additional attributes for all heading elements:

VALUE= " # "

Specifies the starting value for this heading level (default is "1" for all new levels).

TYPE= " 1 "

Specifies that decimal numbers should be generated for this heading level.

TYPE= " a "

Specifies that lowercase letters should be generated for this heading level.

TYPE= " A "

Specifies that uppercase letters should be generated for this heading level.

TYPE= " i "

Specifies that lowercase roman numerals should be generated for this heading level.

TYPE= " I "

Specifies that uppercase roman numerals should be generated for this heading level.

Images

HTMLDOC supports loading of BMP, GIF, JPEG, and PNG image files. EPS and other types of image files are not supported at this time.

Links

External URL and internal (#target and filename.html) links are fully supported for HTML and PDF output.

When generating PDF files, local PDF file links will be converted to external file links for the PDF viewer instead of URL links. That is, you can directly link to another local PDF file from your HTML document with:

```
<A HREF="filename.pdf">...</A>
```

META Attributes

HTMLDOC supports the following META attributes for the title page and document information:

```
<META NAME="AUTHOR" CONTENT=" . . . "
    Specifies the document author.
<META NAME="COPYRIGHT" CONTENT=" . . . "
    Specifies the document copyright.
<META NAME="DOCNUMBER" CONTENT=" . . . "
    Specifies the document number.
<META NAME="GENERATOR" CONTENT=" . . . "
    Specifies the application that generated the HTML file.
<META NAME="KEYWORDS" CONTENT=" . . . "
    Specifies document search keywords.
<META NAME="SUBJECT" CONTENT=" . . . "
    Specifies document subject.
```

Page Breaks

HTMLDOC supports four new page comments to specify page breaks. In addition, the older BREAK attribute is still supported by the HR element:

```
<HR BREAK>
```

Support for the BREAK attribute is deprecated and will be removed in a future release of HTMLDOC.

Tables

Currently HTMLDOC supports a maximum of 200 columns within a single table. This limit can be increased by changing the MAX_COLUMNS constant in the *config.h* file included with the source code.

HTMLDOC does not support HTML 4.0 table elements or attributes, such as TBODY, THEAD, TFOOT, or RULES.

Chapter 7 - GUI Reference

This chapter describes all of the GUI controls in HTMLDOC.

The HTMLDOC GUI

The HTMLDOC GUI (Figures 7-1 through 7-11) is contained in a single window showing the input, output, and generation options. At the bottom are buttons to load, save, and generate documents.

Document File Operations

HTMLDOC stores the HTML files, settings, and options in .BOOK files. The buttons on the bottom of the HTMLDOC window allow you to manage these files and generate formatted documents.

New

The *New* button starts a new document. A confirmation dialog will appear if you have not saved the changes to the existing document.

Open...

The *Open...* button retrieves a document that you have saved previously. A file chooser dialog is displayed that allows you to pick an existing book file.

Save

The **Save** button saves the current document. A file chooser dialog is displayed if there is no filename assigned to the current document.

Note: Saving a document is not the same as *generating* a document. The book files saved to disk by the **Save** and **Save As...** buttons are **not** the final HTML, PDF, or PostScript output files. You generate those files by clicking on the *Generate* button.

Save As...

The **Save As...** button saves the current document to a new file. A file chooser dialog is displayed to allow you to specify the new document filename.

Note: Saving a document is not the same as *generating* a document. The book files saved to disk by the **Save** and **Save As...** buttons are **not** the final HTML, PDF, or PostScript output files. You generate those files by clicking on the *Generate* button.

Generate

The *Generate* button generates the current document, creating the specified HTML, PDF, or PostScript file(s) as needed. The progress meter at the bottom of the window will show the progress as each page or file is formatted and written.

Note: Generating a document is not the same as **saving** a document. To save the current HTML files and settings in the HTMLDOC GUI, click on the **Save** or **Save As...** buttons instead.

Close

The *Close* button closes the HTMLDOC window.

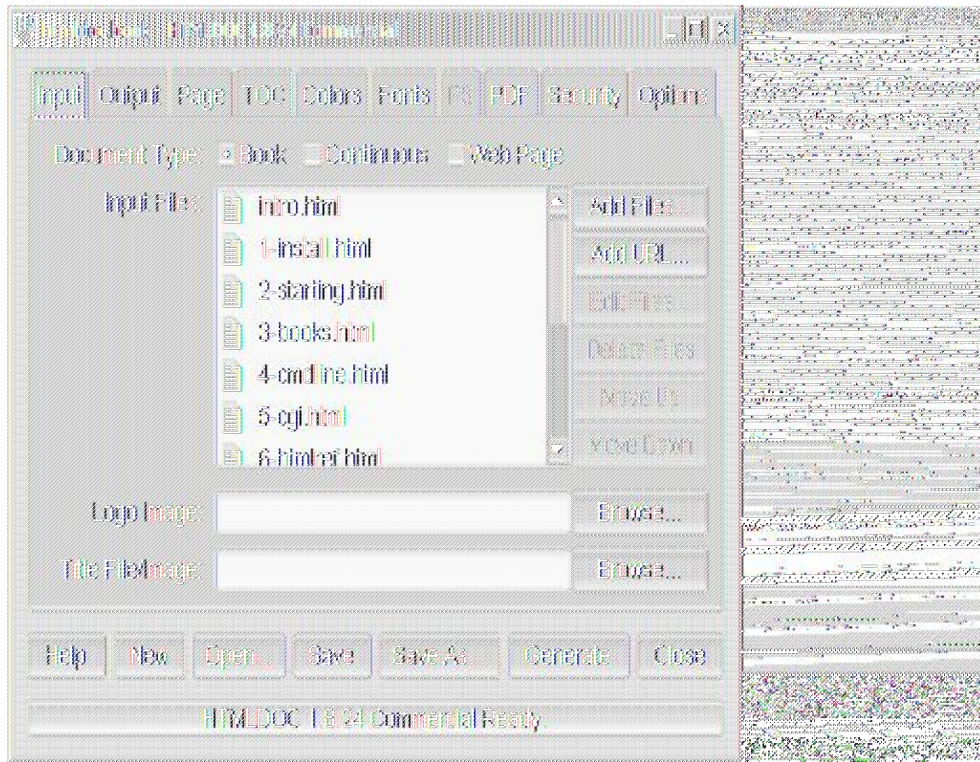


Figure 7-1 - The Input Tab

The Input Tab

The input tab (Figure 7-1) lists all of the HTML source files that are used to generate the document. You also specify the type of document (book or web page) and the title and logo images in this tab.

Document Type

The *Book* radio button specifies that the input files are structured with headings. The *Continuous* radio button specifies unstructured files without page breaks between each file. The *Web Page* radio button specifies unstructured files with page breaks between each file.

Input Files

The *Input Files* list shows all of the HTML input files that will be used to produce the document. Double-click on files to edit them.

Add Files...

The *Add Files...* button displays the file chooser dialog, allowing you to select one or more HTML files to include in the document.

Edit Files...

The *Edit Files...* button starts the specified editor program to edit the files selected in the *Input Files* list. Select one or more files in the *Input Files* list to enable the *Edit Files...* button.

Delete Files

The *Delete Files* button removes the selected files from the *Input Files* list. Select one or more files in the *Input Files* list to enable the *Delete Files* button.

The *Delete Files* button only removes the files from the *Input Files* list. The files are **not** removed from disk.

Move Up

The *Move Up* button moves the selected files in the *Input Files* list up one line in the list. To enable the *Move Up* button select one or more files in the *Input Files* list.

Move Down

The *Move Down* button moves the selected files in the *Input Files* list down one line in the list. To enable the *Move Down* button select one or more files in the *Input Files* list.

Logo Image

The *Logo Image* field contains the filename for an image to be shown in the header or footer of pages, and in the navigation bar of HTML files.

Click on the *Browse...* button to select a logo image file using the file chooser dialog.

Title File/Image

The *Title File/Image* field contains the filename for an image to be shown on the title page, or for a HTML file to be used for the title page(s).

Click on the *Browse...* button to select a title file using the file chooser dialog.

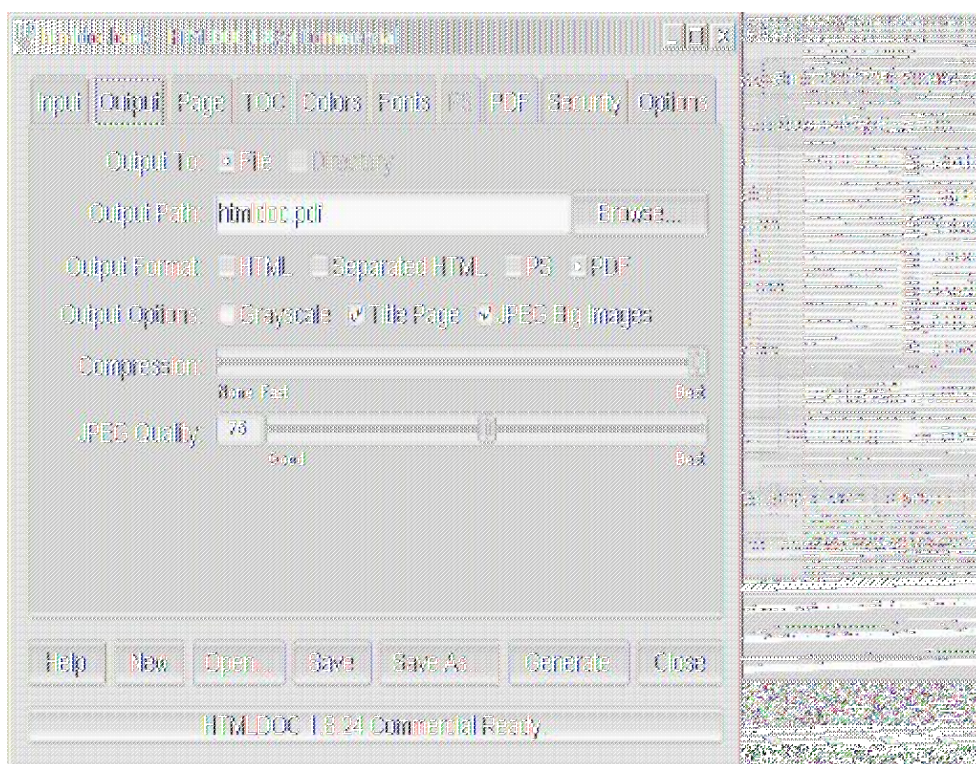


Figure 7-2 - The Output Tab

The Output Tab

The output tab (Figure 7-2) specifies where your document will be generated, the output format, and some of the generic output options.

Output To

The *File* radio button selects output to a single file. The *Directory* radio button selects output to multiple files in the named directory.

Directory output is not available when generating PDF files.

Output Path

The *Output Path* field contains the output directory or filename. Click on the *Browse...* button to choose an output file using the [file chooser](#) dialog.

Output Format

The *HTML* radio button selects HTML output, the *Separated HTML* radio button selects HTML output that is separated into a separate file for each heading in the table-of-contents, the *PS* radio button selects PostScript output, and the *PDF* radio button selects PDF output.

Output Options

The *Grayscale* check box selects grayscale output for PostScript and PDF files. The *Title Page* check box specifies that a title page should be generated for the document. The *JPEG Big Images* check box specifies that JPEG compression should be applied to continuous-tone images.

Compression

The *Compression* slider controls the amount of compression that is used when writing PDF or Level 3 PostScript output.

Note: HTMLDOC uses Flate compression, which is not encumbered by patents and is also used by the popular PKZIP and gzip programs. Flate is a lossless compression algorithm (that is, you get back exactly what you put in) that performs very well on indexed images and text.

JPEG Quality

The *JPEG Quality* slider controls the quality level used when writing continuous-tone images with JPEG compression.

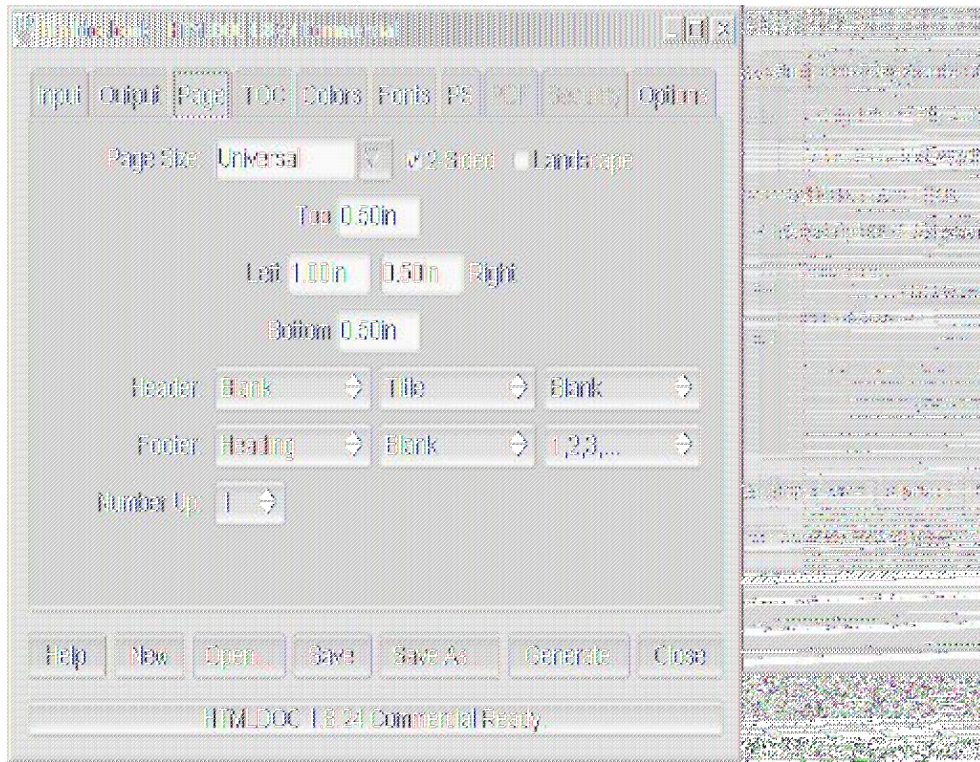


Figure 7-3 - The Page Tab

The Page Tab

The page tab (Figure 7-3) defines the page header, footer, size, and margins for PostScript and PDF output.

Page Size

The *Page Size* field contains the current page size. Click on the arrow button to choose a standard page size.

HTMLDOC supports the following standard page size names:

- Letter - 8.5x11in (216x279mm)
- A4 - 8.27x11.69in (210x297mm)
- Universal - 8.27x11in (210x279mm)

Click in the *Page Size* field and enter the page width and length separated by the letter "x" to select a custom page size. Append the letters "in" for inches, "mm" for millimeters, or "cm" for centimeters.

2-Sided

Click in the *2-Sided* check box to select 2-sided (duplexed) output.

Landscape

Click in the *Landscape* check box to select landscape output.

Top, Left, Right, and Bottom

Click in the *Top*, *Left*, *Right*, and *Bottom* fields and enter the new margin values to change them. Append the letters "in" for inches, "mm" for millimeters, or "cm" for centimeters.

Header and Footer

Select the desired text in each of the option buttons to customize the header and footer for the document/body pages. The left-most option buttons set the text that is left-justified, while the middle buttons set the text that is centered and the right buttons set the text that is right-justified. Each choice corresponds to the following text:

Choice	Description
Blank	The field should be blank.
Title	The field should contain the document title.
Chapter Title	The field should contain the current chapter title.
Heading	The field should contain the current heading.
Logo	The field should contain the logo image.
1,2,3,...	The field should contain the current page number in decimal format (1, 2, 3, ...)
i,ii,iii,...	The field should contain the current page number in lowercase roman numerals (i, ii, iii, ...)
I,II,III,...	The field should contain the current page number in uppercase roman numerals (I, II, III, ...)
a,b,c,...	The field should contain the current page number using lowercase letters.
A,B,C,...	The field should contain the current page number using UPPERCASE letters.
Chapter Page	The field should contain the current chapter page number.
1/N,2/N,...	The field should contain the current and total number of pages (n/N).
1/C,2/C,...	The field should contain the current and total number of pages in the chapter (n/N).
Date	The field should contain the current date (formatted for the current locale).
Time	The field should contain the current time (formatted for the current locale).
Date + Time	The field should contain the current date and time (formatted for the current locale).

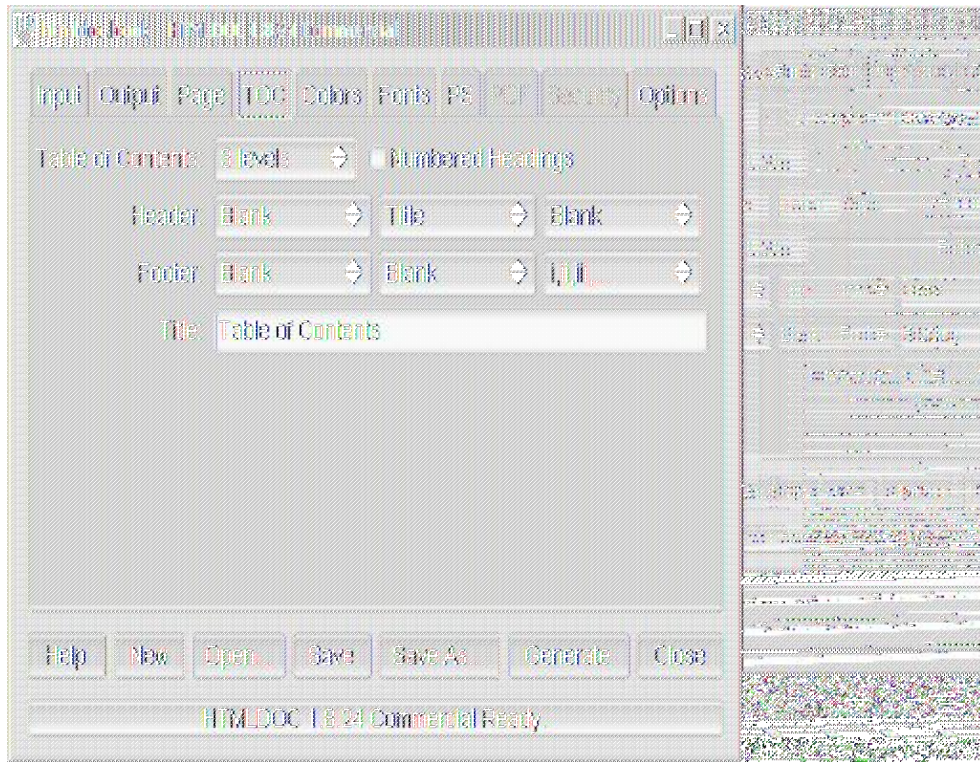


Figure 7-4 - The TOC Tab

The TOC Tab

The TOC tab (Figure 7-4) defines the table-of-contents options.

Table of Contents

Select the desired number of levels from the *Table of Contents* option button.

Numbered Headings

Click in the *Numbered Headings* check box to automatically number the headings in the document.

Header and Footer

Select the desired text in each of the option buttons to customize the header and footer for the tables-of-contents pages. The left-most option buttons set the text that is left-justified, while the middle buttons set the text that is centered and the right buttons set the text that is right-justified.

Title

Enter the desired title for the table-of-contents in the *Title* field.

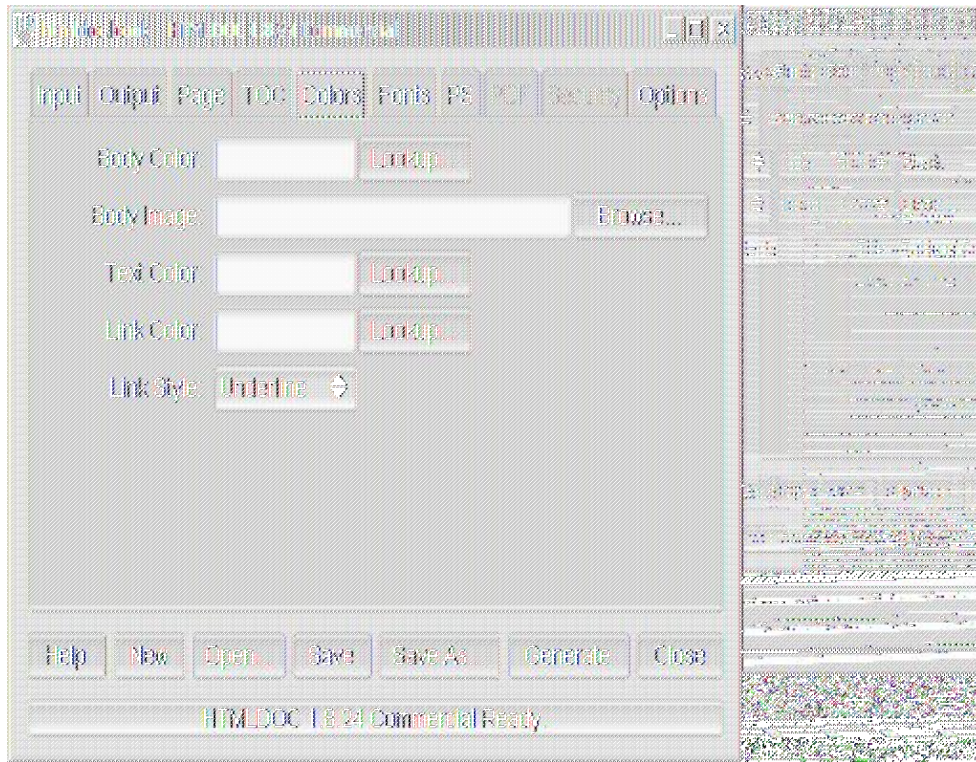


Figure 7-5 - The Colors Tab

The Colors Tab

The colors tab (Figure 7-5) defines the color and image information that is used for the entire document.

Body Color

The *Body Color* field specifies the default background color. It can be a standard HTML color name or a hexadecimal RGB color of the form #RRGGBB. Click on the *Lookup...* button to pick the color graphically.

Body Image

The *Body Image* field specifies the default background image. Click on the *Browse...* button to pick the background image using the file chooser.

Text Color

The *Text Color* field specifies the default text color. It can be a standard HTML color name or a hexadecimal RGB color of the form #RRGGBB. Click on the *Lookup...* button to pick the color graphically.

Link Color

The *Link Color* field specifies the default link color. It can be a standard HTML color name or a hexadecimal RGB color of the form #RRGGBB. Click on the *Lookup...* button to pick the color graphically.

Link Style

The *Link Style* chooser specifies the default link decoration.

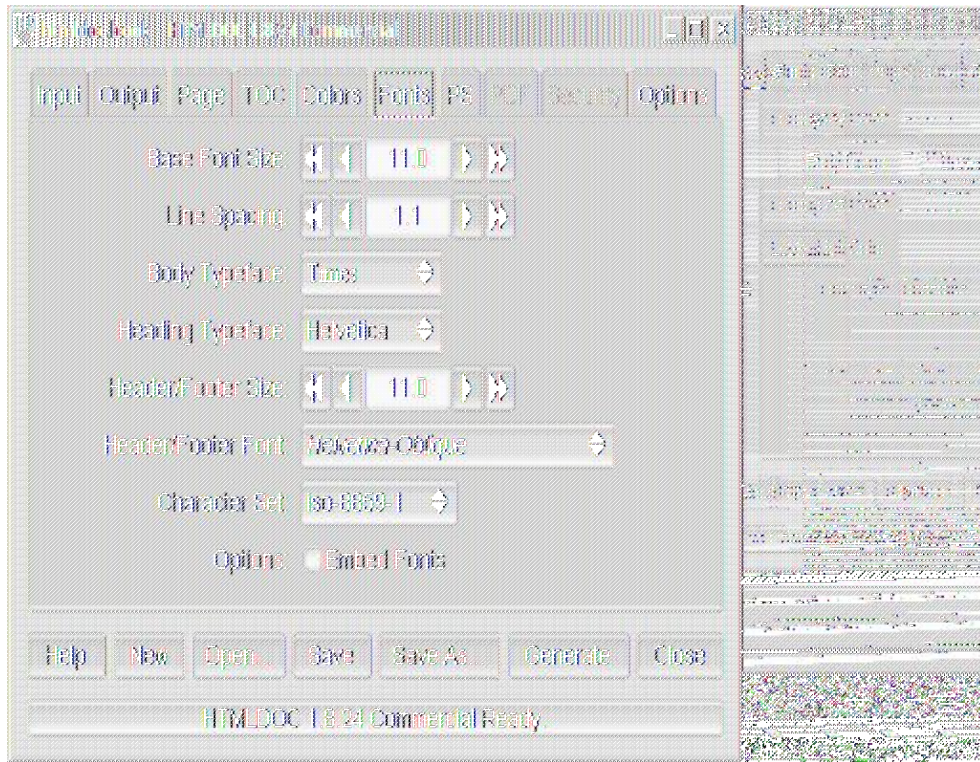


Figure 7-6 - The Fonts Tab

The Fonts Tab

The fonts tab (Figure 7-6) defines the fonts and character set used by the document.

Base Font Size

The *Base Font Size* field specifies the size of normal text in the document in points (1 point = 1/72nd inch). Click on the single arrow buttons to decrease or increase the size by 1/10th point or on the double arrow buttons to decrease or increase the size by whole points.

Line Spacing

The *Line Spacing* field specifies the spacing between lines as a multiple of the base font size. Click on the single arrow buttons to decrease or increase the size by 10ths or on the double arrow buttons to decrease or increase the size by whole numbers.

Body Typeface

The *Body Typeface* option button specifies the typeface to use for normal text. Click on the option button to select a typeface.

Heading Typeface

The *Heading Typeface* option button specifies the typeface to use for headings. Click on the option button to select a typeface.

Header/Footer Size

The *Header/Footer Size* field specifies the size of header and footer text in the document in points (1 point = 1/72nd inch). Click on the single arrow buttons to decrease or increase the size by 1/10th point or on the double arrow buttons to decrease or increase the size by whole points.

Header/Footer Font

The *Header/Footer Font* option button specifies the typeface and style to use for header and footer text. Click on the option button to select a typeface and style.

Character Set

The *Character Set* option button specifies the encoding of characters in the document. Click on the option button to select a character set.

Options

The *Embed Fonts* check box controls whether or not fonts are embedded in PostScript and PDF output.

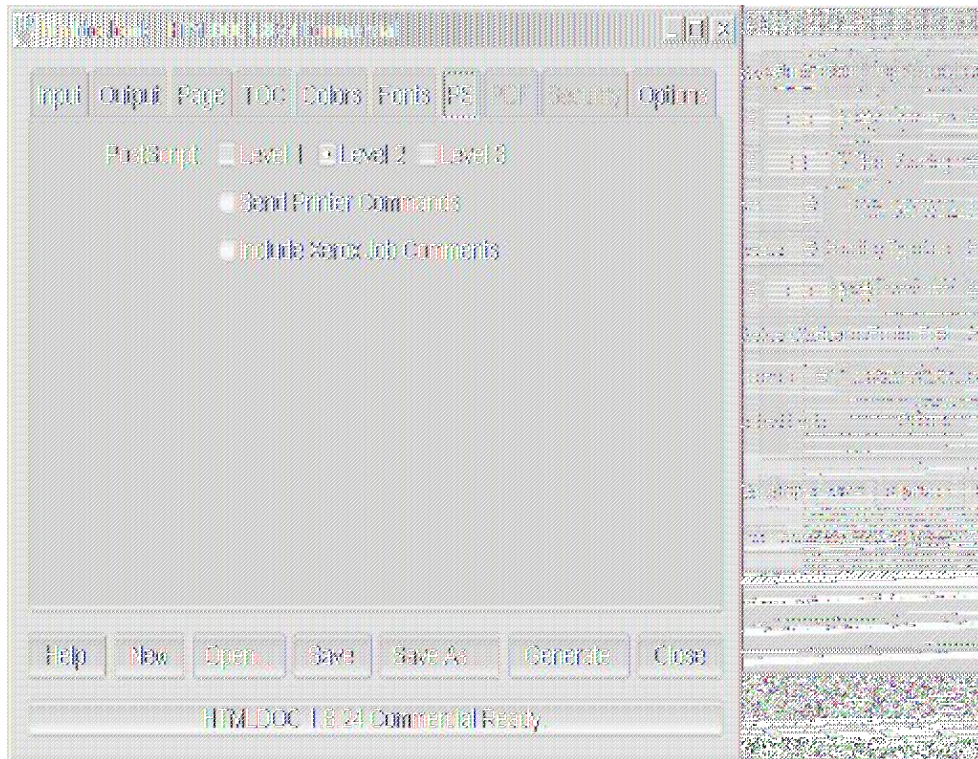


Figure 7-7 - The PS Tab

The PS Tab

The PS tab (Figure 7-7) contains options specific to PostScript output.

PostScript Level

Click on one of the *Level* radio buttons to select the language level to generate. PostScript Level 1 is compatible with all PostScript printers and will produce the largest output files.

PostScript Level 2 is compatible with most PostScript printers and supports printer commands and JPEG image compression.

PostScript Level 3 is compatible with only the newest PostScript printers and supports Flate image compression in addition to the Level 2 features.

Send Printer Commands

The *Send Printer Commands* check box controls whether or not the output files contain PostScript `setpagedevice` commands for the page size and duplex settings. Click in the check box to enable or disable printer commands.

Printer commands are only available with Level 2 and 3 output and may not work with some printers.

Include Xerox Job Comments

The *Include Xerox Job Comments* check box controls whether or not the output files contain Xerox job comments. Click in the check box to enable or disable the job comments.

Job comments are available with all levels of PostScript output.

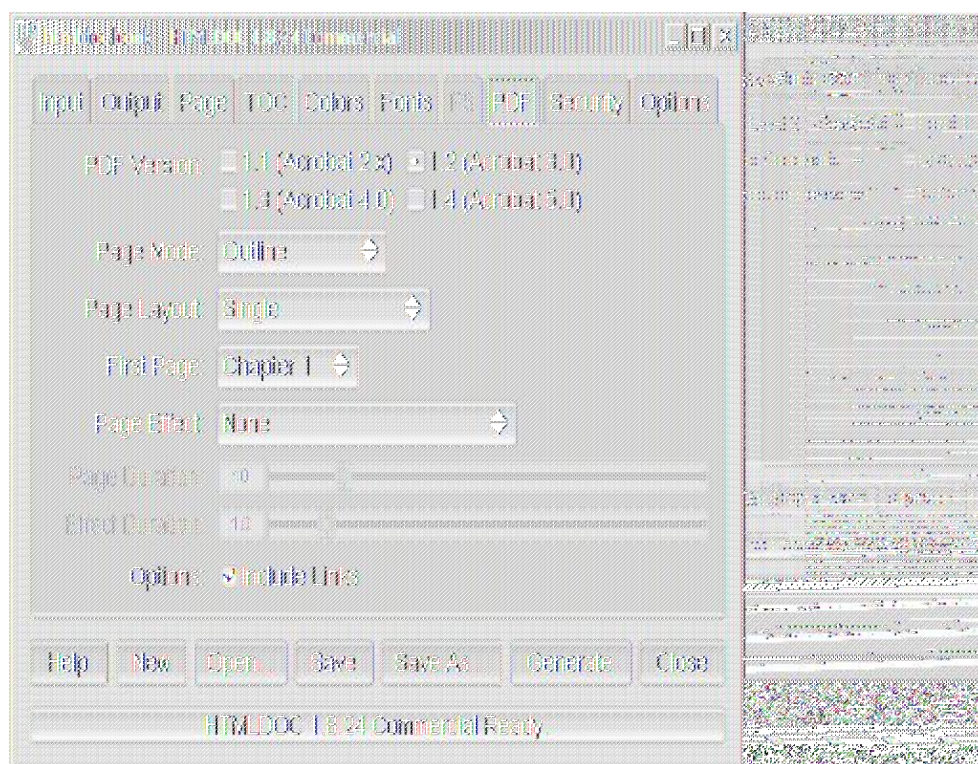


Figure 7-8 - The PDF Tab

The PDF Tab

The PDF tab (Figure 7-8) contains settings specific to PDF output.

PDF Version

The *PDF Version* radio buttons control what version of PDF is generated. PDF 1.3 is the most commonly supported version. Click on the corresponding radio button to set the version.

Page Mode

The *Page Mode* option button controls the initial viewing mode for the document. Click on the option button to set the page mode.

The *Document* page mode displays only the document pages. The *Outline* page mode displays the table-of-contents outline as well as the document pages. The *Full-Screen* page mode displays the document pages on the whole screen; this mode is used primarily for presentations.

Page Layout

The *Page Layout* option button controls the initial layout of document pages on the screen. Click on the option button to set the page layout.

The *Single* page layout displays a single page at a time. The *One Column* page layout displays a single column of pages at a time. The *Two Column Left* and *Two Column Right* page layouts display two columns of pages at a time; the first page is displayed in the left or right column as selected.

First Page

The *First Page* option button controls the initial page that is displayed. Click on the option button to choose the first page.

Page Effect

The *Page Effect* option button controls the page effect that is displayed in *Full-Screen* mode. Click on the option button to select a page effect.

Page Duration

The *Page Duration* slider controls the number of seconds that each page will be visible in *Full-Screen* mode. Drag the slider to adjust the number of seconds.

Effect Duration

The *Effect Duration* slider controls the number of seconds that the page effect will last when changing pages. Drag the slider to adjust the number of seconds.

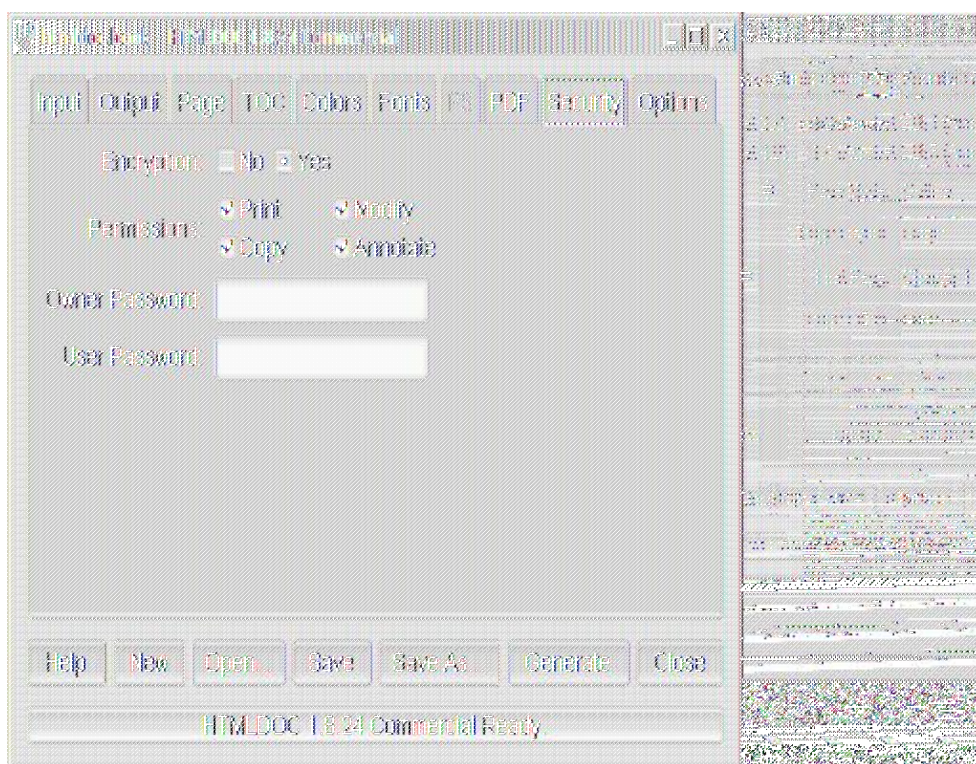


Figure 7-9 - The Security Tab

The Security Tab

The security tab (Figure 7-9) allows you to enable PDF document encryption and security features.

Encryption

The *Encryption* buttons control whether or not encryption is performed on the PDF file. Encrypted documents can be password protected and also provide user permissions.

Permissions

The *Permissions* buttons control what operations are allowed by the PDF viewer.

Owner Password

The *Owner Password* field contains the document owner password, a string that is used by Adobe Acrobat to control who can change document permissions, etc.

If this field is left blank, a random 32-character password is generated so that no one can change the document using the Adobe tools.

Options

The *Include Links* option controls whether or not the internal links in a document are included in the PDF output. The document outline (shown to the left of the document in Acrobat Reader) is unaffected by this setting.

User Password

The *User Password* field contains the document user password, a string that is used by Adobe Acrobat to restrict viewing permissions on the file.

If this field is left blank, any user may view the document without entering a password.

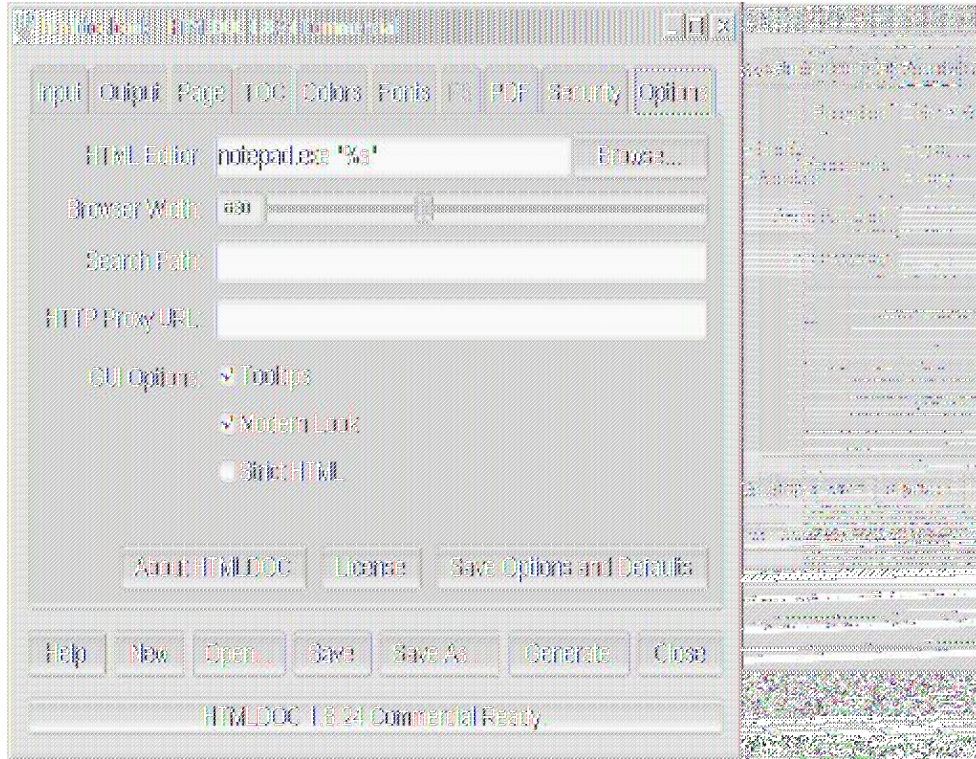


Figure 7-10 - The Options Tab

The Options Tab

The options tab (Figure 7-10) contains the HTML file editor of your choice and allows you to save the settings and options that will be used in new documents.

HTML Editor

The *HTML Editor* field contains the name of the HTML editor to run when you double-click on an input file or click on the *Edit Files...* button. Enter the program name in the field or click on the *Browse...* button to select the editor using the file chooser.

The %s is added automatically to the end of the command name to insert the name of the file to be edited. If you are using Netscape Composer to edit your HTML files you should put "-edit" before the %s to tell Netscape to edit the file and not display it.

Browser Width

The *Browser Width* slider specifies the width of the browser in pixels that is used to scale images and other pixel measurements to the printable page width. You can adjust this value to more closely match the formatting on the screen.

The default browser width is 680 pixels which corresponds roughly to a 96 DPI display. The browser width is only used when generating PostScript or PDF files.

Search Path

The *Search Path* field specifies a search path for files that are loaded by HTMLDOC. It is usually used to get images that use absolute server paths to load.

Directories are separated by the semicolon (;) so that drive letters (and eventually URLs) can be specified.

Proxy URL

The *Proxy URL* field specifies a URL for a HTTP proxy server.

Tooltips

The *Tooltips* check button controls the appearance of tooltip windows over GUI controls.

Modern Look

The *Modern Look* check button controls the appearance of the GUI controls.

Strict HTML

The *Strict HTML* check button controls strict HTML conformance checking. When checked, HTML elements that are improperly nested and dangling close elements will produce error messages.

Save Options and Defaults

The *Save Options and Defaults* button saves the HTML editor and all of the document settings on the other tabs for use in new documents. These settings are also used by the command-line version of HTMLDOC.

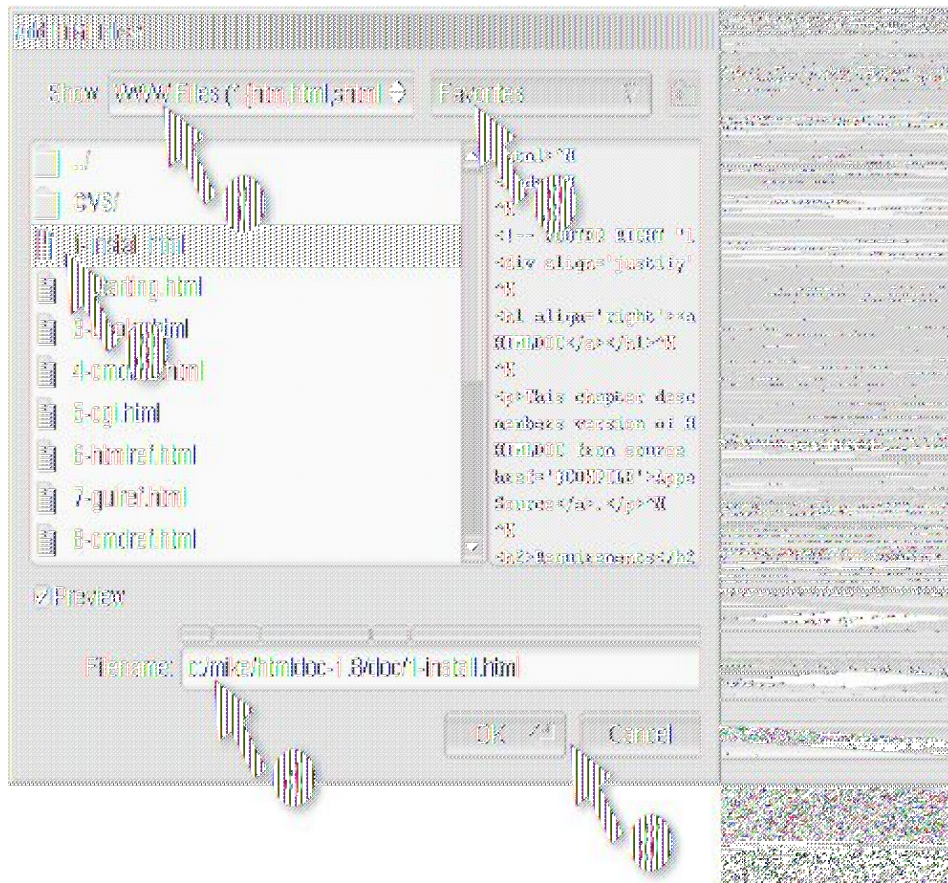


Figure 7-11 - The File Chooser

The File Chooser

The file chooser (Figure 7-11) allows you to select one or more files and create files and directories.

Show

The *Show* option button (1) selects which files are displayed in the file list (3). Click on the option button to choose a different type of file.

Favorites

The *Favorites* button (2) allow you to view a specific directory or add the current directory to your list of favorites.

File List

The file list (3) lists the files and directories in the current directory or folder. Double-click on a file or directory to select that file or directory. Drag the mouse or hold the **CTRL** key down while clicking to select multiple files.

Filename

The *Filename* field contains the currently selected filename. Type a name in the field to select a file or directory. As you type, any matching filenames will be highlighted; press the **TAB** key to accept the matches.

The button bar along the top of the filename allows you to view each directory in the filename. Click on any of the segments to display the corresponding directory.

Dialog Buttons

The dialog buttons (5) close the file chooser dialog window. Click on the *OK* button to accept your selections or the *Cancel* button to reject your selections and cancel the file operation.

Chapter 8 - Command-Line Reference

This chapter describes all of the command-line options supported by HTMLDOC.

Basic Usage

The basic command-line usage for HTMLDOC is:

```
% htmldoc options filename1.html ... filenameN.html ENTER  
% htmldoc options filename.book ENTER
```

The first form converts the named HTML files to the specified output format immediately. The second form loads the specified `.book` file and displays the HTMLDOC window, allowing a user to make changes and/or generate the document interactively.

If no output file or directory is specified, then all output is sent to the standard output file.

On return, HTMLDOC returns an exit code of 0 if it was successful and non-zero if there were errors.

Options

The following command-line options are recognized by HTMLDOC.

-d directory

The `-d` option specifies an output directory for the document files.

This option is not compatible with the PDF output format.

-f filename

The `-f` option specifies an output file for the document.

-t format

The `-t` option specifies the output format for the document and can be one of the following:

Format	Description
html	Generate one or more indexed HTML files.
htmlsep	Generate separate HTML files for each heading in the table-of-contents.
pdf	Generate a PDF file (default version - 1.3).
pdf11	Generate a PDF 1.1 file for Acrobat Reader 2.0.
pdf12	Generate a PDF 1.2 file for Acrobat Reader 3.0.
pdf13	Generate a PDF 1.3 file for Acrobat Reader 4.0.
pdf14	Generate a PDF 1.4 file for Acrobat Reader 5.0.
ps	Generate one or more PostScript files (default level - 2).
ps1	Generate one or more Level 1 PostScript files.
ps2	Generate one or more Level 2 PostScript files.
ps3	Generate one or more Level 3 PostScript files.

-v

The `-v` option specifies that progress information should be sent/displayed to the standard error file.

--batch filename.book

The `--batch` option specifies a book file that you would like to generate without the GUI popping up. This option can be combined with other options to generate the same book in different formats and sizes:

```
% htmldoc --batch filename.book -f filename.ps ENTER
% htmldoc --batch filename.book -f filename.pdf ENTER
```

--bodycolor color

The `--bodycolor` option specifies the background color for all pages in the document. The color can be specified by a standard HTML color name or as a 6-digit hexadecimal number of the form #RRGGBB.

--bodyfont typeface

The `--bodyfont` option specifies the default text font used for text in the document body. The `typeface` parameter can be one of the following:

typeface	Actual Font
Arial	Helvetica
Courier	Courier
Helvetica	Helvetica
Monospace	DejaVu Sans Mono
Sans	DevaVu Sans
Serif	DejaVu Serif
Times	Times

--bodyimage filename

The `--bodyimage` option specifies the background image for all pages in the document. The supported formats are BMP, GIF, JPEG, and PNG.

--book

The `--book` option specifies that the input files comprise a book with chapters and headings.

--bottom margin

The `--bottom` option specifies the bottom margin. The default units are points (1 point = 1/72nd inch); the suffixes "in", "cm", and "mm" specify inches, centimeters, and millimeters, respectively.

This option is only available when generating PostScript or PDF files.

--browserwidth pixels

The `--browserwidth` option specifies the browser width in pixels. The browser width is used to scale images and pixel measurements when generating PostScript and PDF files. It does not affect the font size of text.

The default browser width is 680 pixels which corresponds roughly to a 96 DPI display. Please note that your images and table sizes are equal to or smaller than the browser width, or your output will overlap or truncate in places.

--charset charset

The `--charset` option specifies the 8-bit character set encoding to use for the entire document. HTMLDOC comes with the following character set files:

charset	Character Set
cp-874	Windows code page 874
cp-1250	Windows code page 1250
cp-1251	Windows code page 1251
cp-1252	Windows code page 1252
cp-1253	Windows code page 1253
cp-1254	Windows code page 1254
cp-1255	Windows code page 1255
cp-1256	Windows code page 1256
cp-1257	Windows code page 1257
cp-1258	Windows code page 1258
iso-8859-1	ISO-8859-1
iso-8859-2	ISO-8859-2
iso-8859-3	ISO-8859-3
iso-8859-4	ISO-8859-4
iso-8859-5	ISO-8859-5
iso-8859-6	ISO-8859-6
iso-8859-7	ISO-8859-7
iso-8859-8	ISO-8859-8
iso-8859-9	ISO-8859-9
iso-8859-14	ISO-8859-14
iso-8859-15	ISO-8859-15
koi8-r	KOI8-R

--color

The `--color` option specifies that color output is desired.

This option is only available when generating PostScript or PDF files.

--compression[=level]

The `--compression` option specifies that Flate compression should be performed on the output file(s). The

optional `level` parameter is a number from 1 (fastest and least amount of compression) to 9 (slowest and most amount of compression).

This option is only available when generating PDF or Level 3 PostScript files.

--continuous

The `--continuous` option specifies that the input files comprise a web page (or site) and that no title page or table-of-contents should be generated. Unlike the `--webpage` option described later in this chapter, page breaks are not inserted between each input file.

This option is only available when generating PostScript or PDF files.

--cookies 'name=\"value with space\"; name=value'

The `--cookies` option specifies one or more HTTP cookies that should be sent when converting remote URLs. Each cookie must be separated from the others by a semicolon and a space, and values containing whitespace or the semicolon must be placed inside double-quotes. When specifying multiple cookies, the entire cookie string must be surrounded by single quotes in order for the string to be processed correctly.

--datadir directory

The `--datadir` option specifies the location of data files used by HTMLDOC.

--duplex

The `--duplex` option specifies that the output should be formatted for two sided printing.

This option is only available when generating PostScript or PDF files. Use the `--pscommands` option to generate PostScript duplex mode commands.

--effectduration seconds

The `--effectduration` option specifies the duration of a page transition effect in seconds.

This option is only available when generating PDF files.

--embedfonts

The `--embedfonts` option specifies that fonts should be embedded in PostScript and PDF output. This is especially useful when generating documents in character sets other than ISO-8859-1.

--encryption

The `--encryption` option enables encryption and security features for PDF output.

This option is only available when generating PDF files.

--firstpage page

The `--firstpage` option specifies the first page that will be displayed in a PDF file. The `page` parameter can be one of the following:

page	Description
p1	The first page of the document.
toc	The first page of the table-of-contents.
c1	The first page of chapter 1.

This option is only available when generating PDF files.

--fontsize size

The `--fontsize` option specifies the base font size for the entire document in points (1 point = 1/72nd inch).

--fontspacing spacing

The `--fontspacing` option specifies the line spacing for the entire document as a multiplier of the base font size. A `spacing` value of 1 makes each line of text the same height as the font.

--footer lcr

The `--footer` option specifies the contents of the page footer. The `lcr` parameter is a three-character string representing the left, center, and right footer fields. Each character can be one of the following:

lcr	Description
.	A period indicates that the field should be blank.
:	A colon indicates that the field should contain the current and total number of pages in the chapter (n/N).
/	A slash indicates that the field should contain the current and total number of pages (n/N).
1	The number 1 indicates that the field should contain the current page number in decimal format (1, 2, 3, ...)
a	A lowercase "a" indicates that the field should contain the current page number using lowercase letters.
A	An uppercase "A" indicates that the field should contain the current page number using UPPERCASE letters.
c	A lowercase "c" indicates that the field should contain the current chapter title.
C	An uppercase "C" indicates that the field should contain the current chapter page number.
d	A lowercase "d" indicates that the field should contain the current date.
D	An uppercase "D" indicates that the field should contain the current date and time.
h	An "h" indicates that the field should contain the current heading.
i	A lowercase "i" indicates that the field should contain the current page number in lowercase roman numerals (i, ii, iii, ...)
I	An uppercase "I" indicates that the field should contain the current page number in uppercase roman numerals (I, II, III, ...)
l	A lowercase "l" indicates that the field should contain the logo image.
t	A lowercase "t" indicates that the field should contain the document title.
T	An uppercase "T" indicates that the field should contain the current time.

Setting the footer to ". . ." disables the footer entirely.

--format format

The `--format` option specifies the output format for the document and can be one of the following:

Format	Description
html	Generate one or more indexed HTML files.
htmlsep	Generate separate HTML files for each heading in the table-of-contents.
pdf	Generate a PDF file (default version - 1.3).
pdf11	Generate a PDF 1.1 file for Acrobat Reader 2.0.
pdf12	Generate a PDF 1.2 file for Acrobat Reader 3.0.
pdf13	Generate a PDF 1.3 file for Acrobat Reader 4.0.
pdf14	Generate a PDF 1.4 file for Acrobat Reader 5.0.
ps	Generate one or more PostScript files (default level - 2).
ps1	Generate one or more Level 1 PostScript files.
ps2	Generate one or more Level 2 PostScript files.
ps3	Generate one or more Level 3 PostScript files.

--gray

The `--gray` option specifies that grayscale output is desired.

This option is only available when generating PostScript or PDF files.

--header lcr

The `--header` option specifies the contents of the page header. The `lcr` parameter is a three-character string representing the left, center, and right header fields. See the [`--footer`](#) option for the list of formatting characters.

Setting the header to ". . ." disables the header entirely.

--headfootfont font

The `--headfootfont` option specifies the font that is used for the header and footer text. The `font` parameter can be one of the following:

- Courier
- Courier-Bold
- Courier-Oblique
- Courier-BoldOblique
- Helvetica
- Helvetica-Bold
- Helvetica-Oblique
- Helvetica-BoldOblique
- Monospace
- Monospace-Bold
- Monospace-Oblique
- Monospace-BoldOblique
- Sans
- Sans-Bold
- Sans-Oblique
- Sans-BoldOblique
- Serif
- Serif-Roman
- Serif-Bold
- Serif-Italic
- Serif-BoldItalic
- Times
- Times-Roman
- Times-Bold
- Times-Italic
- Times-BoldItalic

This option is only available when generating PostScript or PDF files.

--headfootsize size

The `--headfootsize` option sets the size of the header and footer text in points (1 point = 1/72nd inch).

This option is only available when generating PostScript or PDF files.

--headingfont typeface

The `--headingfont` options sets the typeface that is used for headings in the document. The `typeface` parameter can be one of the following:

typeface	Actual Font
Arial	Helvetica
Courier	Courier
Helvetica	Helvetica
Monospace	DejaVu Sans Mono
Sans	DejaVu Sans
Serif	DejaVu Serif
Times	Times

--help

The `--help` option displays all of the available options to the standard output file.

--helpdir directory

The `--helpdir` option specifies the location of the on-line help files.

--jpeg[=quality]

The `--jpeg` option enables JPEG compression of continuous-tone images. The optional `quality` parameter specifies the output quality from 0 (worst) to 100 (best).

This option is only available when generating PDF or Level 2 and Level 3 PostScript files.

--landscape

The `--landscape` option specifies that the output should be in landscape orientation (long edge on top).

This option is only available when generating PostScript or PDF files.

--left margin

The `--left` option specifies the left margin. The default units are points (1 point = 1/72nd inch); the suffixes "in", "cm", and "mm" specify inches, centimeters, and millimeters, respectively.

This option is only available when generating PostScript or PDF files.

--linkcolor color

The `--linkcolor` option specifies the color of links in HTML and PDF output. The color can be specified by name or as a 6-digit hexadecimal number of the form #RRGGBB.

--links

The `--links` option specifies that PDF output should contain hyperlinks.

--linkstyle style

The `--linkstyle` option specifies the style of links in HTML and PDF output. The style can be "plain" for no decoration or "underline" to underline links.

--logoimage filename

The `--logoimage` option specifies the logo image for the HTML navigation bar and page headers and footers for PostScript and PDF files. The supported formats are BMP, GIF, JPEG, and PNG.

Note:

You need to use the `--header` and/or `--footer` options with the `l` parameter or use the corresponding HTML page comments to display the logo image in the header or footer.

The following example uses the `--header` option:

```
htmldoc --logoimage image.png --header lt. -f file.pdf file.html
```

--no-compression

The `--no-compression` option specifies that Flate compression should not be performed on the output files.

--no-duplex

The `--no-duplex` option specifies that the output should be formatted for one sided printing.

This option is only available when generating PostScript or PDF files. Use the `--pscommands` option to generate PostScript duplex mode commands.

--no-embedfonts

The `--no-embedfonts` option specifies that fonts should not be embedded in PostScript and PDF output.

--no-encryption

The `--no-encryption` option specifies that no encryption/security features should be enabled in PDF output.

This option is only available when generating PDF files.

--no-jpeg

The `--no-jpeg` option specifies that JPEG compression should not be performed on large images.

--no-links

The `--no-links` option specifies that PDF output should not contain hyperlinks.

--no-localfiles

The `--no-localfiles` option disables access to local files on the system. This option should be used when providing remote document conversion services.

--no-numbered

The `--no-numbered` option specifies that headings should not be numbered.

--no-pscommands

The `--no-pscommands` option specifies that PostScript device commands should not be written to the output files.

--no-strict

The `--no-strict` option turns off strict HTML conformance checking.

--no-title

The `--no-title` option specifies that the title page should not be generated.

--no-toc

The `--no-toc` option specifies that the table-of-contents pages should not be generated.

--no-xrxcomments

The `--no-xrxcomments` option specifies that Xerox PostScript job comments should not be written to the output files.

This option is only available when generating PostScript files.

--numbered

The `--numbered` option specifies that headings should be numbered.

--nup pages

The `--nup` option sets the number of pages that are placed on each output page. Valid values for the `pages` parameter are 1, 2, 4, 6, 9, and 16.

--outdir directory

The `--outdir` option specifies an output directory for the document files.

This option is not compatible with the PDF output format.

--outfile filename

The `--outfile` option specifies an output file for the document.

--owner-password password

The `--owner-password` option specifies the owner password for a PDF file. If not specified or the empty string (""), a random password is generated.

This option is only available when generating PDF files.

--pageduration seconds

The `--pageduration` option specifies the number of seconds that each page will be displayed in the document.

This option is only available when generating PDF files.

--pageeffect effect

The `--pageeffect` option specifies the page effect to use in PDF files. The `effect` parameter can be one of the following:

effect	Description
none	No effect is generated.
bi	Box Inward
bo	Box Outward
d	Dissolve
gd	Glitter Down
gdr	Glitter Down and Right
gr	Glitter Right
hb	Horizontal Blinds
hsi	Horizontal Sweet Inward
hso	Horizontal Sweep Outward
vb	Vertical Blinds
vsi	Vertical Sweep Inward
vso	Vertical Sweep Outward
wd	Wipe Down
wl	Wipe Left
wr	Wipe Right
wu	Wipe Up

This option is only available when generating PDF files.

--pagelayout layout

The `--pagelayout` option specifies the initial page layout in the PDF viewer. The `layout` parameter can be one of the following:

layout	Description
single	A single page is displayed.
one	A single column is displayed.
twoleft	Two columns are displayed with the first page on the left.
tworight	Two columns are displayed with the first page on the right.

This option is only available when generating PDF files.

--pagemode mode

The `--pagemode` option specifies the initial viewing mode in the PDF viewer. The `mode` parameter can be one of the following:

mode	Description
document	The document pages are displayed in a normal window.
outline	The document outline and pages are displayed.
fullscreen	The document pages are displayed on the entire screen in "slideshow" mode.

This option is only available when generating PDF files.

--path dir1;dir2;dir3;...;dirN

The `--path` option specifies a search path for files that are loaded by HTMLDOC. It is usually used to get images that use absolute server paths to load.

Directories are separated by the semicolon (;) so that drive letters and URLs can be specified. Quotes around the directory parameter are optional. They are usually used when the directory string contains spaces.

```
--path "dir1;dir2;dir3;...;dirN"
```

--permissions permission[,permission,...]

The `--permissions` option specifies the document permissions. The available permission parameters are listed below:

Permission	Description
all	All permissions
annotate	User can annotate document
copy	User can copy text and images from document
modify	User can modify document
print	User can print document
no-annotate	User cannot annotate document
no-copy	User cannot copy text and images from document
no-modify	User cannot modify document
no-print	User cannot print document
none	No permissions

The `--encryption` option must be used in conjunction with the `--permissions` parameter.

```
--permissions no-print --encryption
```

Multiple options can be specified by separating them with commas:

```
--permissions no-print,no-copy --encryption
```

This option is only available when generating PDF files.

--portrait

The `--portrait` option specifies that the output should be in portrait orientation (short edge on top).

This option is only available when generating PostScript or PDF files.

--pscommands

The `--pscommands` option specifies that PostScript device commands should be written to the output files.

This option is only available when generating Level 2 and Level 3 PostScript files.

--quiet

The `--quiet` option prevents error messages from being sent to stderr.

--referer url

The `--referer` option sets the URL that is passed in the `Referer :` field of HTTP requests.

--right margin

The `--right` option specifies the right margin. The default units are points (1 point = 1/72nd inch); the suffixes "in", "cm", and "mm" specify inches, centimeters, and millimeters, respectively.

This option is only available when generating PostScript or PDF files.

--size size

The `--size` option specifies the page size. The `size` parameter can be one of the following standard sizes:

size	Description
Letter	8.5x11in (216x279mm)
A4	8.27x11.69in (210x297mm)
Universal	8.27x11in (210x279mm)

Custom sizes are specified by the page width and length separated by the letter "x" to select a custom page size. Append the letters "in" for inches, "mm" for millimeters, or "cm" for centimeters.

This option is only available when generating PostScript or PDF files. Use the `--pscommands` option to generate PostScript page size commands.

--strict

The `--strict` option turns on strict HTML conformance checking. When enabled, HTML elements that are improperly nested and dangling close elements will produce error messages.

--textcolor color

The `--textcolor` option specifies the default text color for all pages in the document. The color can be specified by a standard HTML color name or as a 6-digit hexadecimal number of the form #RRGGBB.

--textfont typeface

The `--textfont` options sets the typeface that is used for text in the document. The `typeface` parameter can be one of the following:

typeface	Actual Font
Arial	Helvetica
Courier	Courier
Helvetica	Helvetica
Monospace	DejaVu Sans Mono
Sans	DevaVu Sans
Serif	DejaVu Serif
Times	Times

--title

The `--title` option specifies that a title page should be generated.

--titlefile filename

The `--titlefile` option specifies a HTML file to use for the title page.

--titleimage filename

The `--titleimage` option specifies the title image for the title page. The supported formats are BMP, GIF, JPEG, and PNG.

--tocfooter lcr

The `--tocfooter` option specifies the contents of the table-of-contents footer. The `lcr` parameter is a three-character string representing the left, center, and right footer fields. See the [--footer](#) option for the list of formatting characters.

Setting the TOC footer to ". . ." disables the TOC footer entirely.

--tocheader lcr

The `--tocheader` option specifies the contents of the table-of-contents header. The `lcr` parameter is a three-character string representing the left, center, and right header fields. See the [--footer](#) option for the list of formatting characters.

Setting the TOC header to ". . ." disables the TOC header entirely.

--toclevels levels

The `--toclevels` options specifies the number of heading levels to include in the table-of-contents pages. The `levels` parameter is a number from 1 to 6.

--toctitle string

The `--toctitle` options specifies the string to display at the top of the table-of-contents; the default string is "Table of Contents".

--top margin

The `--top` option specifies the top margin. The default units are points (1 point = 1/72nd inch); the suffixes "in", "cm", and "mm" specify inches, centimeters, and millimeters, respectively.

This option is only available when generating PostScript or PDF files.

--user-password password

The `--user-password` option specifies the user password for a PDF file. If not specified or the empty string (""), no password will be required to view the document.

This option is only available when generating PDF files.

--verbose

The `--verbose` option specifies that progress information should be sent/displayed to the standard error file.

--version

The `--version` option displays the HTMLDOC version number.

--webpage

The `--webpage` option specifies that the input files comprise a web page (or site) and that no title page or table-of-contents should be generated. HTMLDOC will insert a page break between each input file.

This option is only available when generating PostScript or PDF files.

--xrxcomments

The `--xrxcomments` option specifies that Xerox PostScript job comments should be written to the output files.

This option is only available when generating PostScript files.

Environment Variables

HTMLDOC looks for several environment variables which can override the default directories, display additional debugging information, and disable CGI mode.

HTMLDOC_DATA

This environment variable specifies the location of HTMLDOC's *data* and *fonts* directories, normally */usr/share/htmldoc* or *C:\Program Files\Easy Software Products\HTMLDOC*.

HTMLDOC_DEBUG

This environment variable enables debugging information that is sent to stderr. The value is a list of keywords separated by spaces:

keyword	Information Shown
links	Shows all of the links in a document
memory	Shows memory usage statistics
remotebytes	Shows the number of bytes that were transferred via HTTP
table	Puts a box around each table, row, and cell
tempfiles	Shows the temporary files that were created, and preserves them for debugging
timing	Shows the load and render times
all	All of the above

HTMLDOC_HELP

This environment variable specifies the location of HTMLDOC's documentation directory, normally */usr/share/doc/htmldoc* or *C:\Program Files\Easy Software Products\HTMLDOC\doc*.

HTMLDOC_NOCGI

This environment variable, when set (the value doesn't matter), disables CGI mode. It is most useful for using HTMLDOC on a web server from a scripting language or invocation from a program.

Messages

HTMLDOC sends error and status messages to `stderr` unless the `--quiet` option is provided on the command-line. Applications can capture these messages to relay errors or statistics to the user.

BYTES: Message

The `BYTES:` message specifies the number of bytes that were written to an output file. If the output is directed at a directory then multiple `BYTES:` messages will be sent.

DEBUG: Messages

The `DEBUG:` messages contain debugging information based on the value of the `HTMLDOC_DEBUG` environment variable. Normally, no `DEBUG:` messages are sent by HTMLDOC.

ERRnnn: Messages

The `ERRnnn:` messages specify an error condition. Error numbers 1 to 14 map to the following errors:

1. No files were found or loadable.
2. No pages were generated.
3. The document contains too many files or chapters.
4. HTMLDOC ran out of memory.
5. The specified file could not be found.
6. The comment contains a bad HTMLDOC formatting command.
7. The image file is not in a known format.
8. HTMLDOC was unable to remove a temporary file.
9. HTMLDOC had an unspecified internal error.
10. HTMLDOC encountered a networking error when retrieving a file via a URL.
11. HTMLDOC was unable to read a file.
12. HTMLDOC was unable to write a file.
13. A HTML error was found in a source file.
14. A table, image, or text fragment was too large to fit in the space provided.
15. A hyperlink in the source files was unresolved.
16. A header/footer string in the document contains a bad `$` command.

Error numbers 100 to 505 correspond directly to a HTTP status code.

INFO: Messages

The `INFO:` messages contain general information that is logged when HTMLDOC is running in CGI mode or when you use the `--verbose` option.

PAGES: Message

The `PAGES:` message specifies the number of pages that were written to an output file. If the output is directed at a directory then multiple `PAGES:` messages will be sent. No `PAGES:` messages are sent when generating HTML output.

REMOTEBYTES: Message

The `REMOTEBYTES:` message specifies the number of bytes that were transferred using HTTP. This message is only displayed if the `HTMLDOC_DEBUG` environment variable has the keyword `remotebytes` or `all`.

TIMING: Message

The `TIMING:` message specifies the load, render, and total time in seconds for the current command. This message is only displayed if the `HTMLDOC_DEBUG` environment variable has the keyword `timing` or `all`.

Appendix A - License Agreement

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Appendix B - Book File Format

This appendix describes the HTMLDOC *.book* file format.

Introduction

The HTMLDOC *.book* file format is a simple text format that provides the command-line options and files that are part of the document. These files can be used from the GUI interface or from the command-line using the `--batch` option:

```
htmldoc filename.book
htmldoc --batch filename.book
```

The first form will load the book and display the GUI interface, if configured. Windows users should use *ghtmldoc.exe* executable to show the GUI and *htmldoc.exe* for the batch mode:

```
ghtmldoc.exe filename.book
htmldoc.exe --batch filename.book
```

The Header

Each *.book* file starts with a line reading:

```
#HTMLDOC 1.8.17
```

The version number (1.8.17) is optional.

The Options

Following the header is a line containing the options for the book. You can use any valid command-line option on this line:

```
-f htmldoc.pdf --titleimage htmldoc.png --duplex --compression=9 --jpeg=90
```

Long option lines can be broken using a trailing backslash (\) on the end of each continuation line:

```
-f htmldoc.pdf --titleimage htmldoc.png --duplex \  
--compression=9 --jpeg=90
```

The Files

Following the options are a list of files or URLs to include in the document:

```
intro.html  
1-install.html  
2-starting.html  
3-books.html  
4-cmdline.html  
5-cgi.html  
6-htmldoc.html  
7-guiref.html  
8-cmdref.html  
a-license.html  
b-book.html  
c-relnotes.html
```

Putting It All Together

The following is the complete book file needed to generate this documentation:

```
#HTMLDOC 1.8.13  
-f htmldoc.pdf --titleimage htmldoc.png --duplex --compression=9 --jpeg=90  
intro.html  
1-install.html  
2-starting.html  
3-books.html  
4-cmdline.html  
5-cgi.html  
6-htmldoc.html  
7-guiref.html  
8-cmdref.html  
a-license.html  
b-book.html  
c-relnotes.html
```

Older Book Files

Prior to HTMLDOC version 1.8.12, the book file format was slightly different:

```
#HTMLDOC version
file count
file(s)
options
```

While HTMLDOC still supports reading this format, we do not recommend using it for new books. In particular, when generating a document using the `--batch` option, some options may not be applied correctly since the files are loaded prior to setting the output options in the old format.

Appendix C - Release Notes

This appendix provides the release notes for each version of HTMLDOC.

Changes in HTMLDOC v1.8.27

Bug Fixes

- Fixed a crash bug that appeared when more than 10 blank pages were present in a document (PR #6223)
- Color changes were not reflected in PRE text (STR #129)
- Remote URLs did not always work on older operating systems (PR #6179)
- Image filenames using % escapes were not decoded properly.
- Rows using BGCOLOR that spanned across multiple pages did not render properly (PR #6149)
- Rows no longer start on a new page due to a cell with both HEIGHT and ROWSPAN specified (PR #6086)
- CMYK JPEG images caused HTMLDOC to crash (PR #6106)
- Table cell width calculations didn't always account for the proper minimum width (STR #121)
- Images were not copied when generating indexed HTML output to a directory (STR #117)
- Changing the bottom margin resulted in text that was formatted below the bottom margin.
- The Monospace-Oblique font was not embedded properly in PDF files.

Changes in HTMLDOC v1.8.26

Bug Fixes

- Outline and keyword strings in PDF files are now stored as Unicode (STR #113)
- The Flate compression code could get in an infinite loop if it ran out of memory (STR #101)
- Book files saved from the GUI did not handle filenames with spaces (STR #105)
- Fixed and re-enabled the ASCII85Device filter support in PostScript Level 2/3 output (STR #116)
- Character entities in the first word of a file were not rendered properly (STR #111)
- Fixed-size table columns were incorrectly resized when a table width was also specified and there was extra space to distribute (PR #6062)
- Text could "walk" up or down when in-line images were used (PR #6034)
- Row backgrounds incorrectly replaced cell backgrounds when the first cell in a row used ROWSPAN (PR #6033, PR #6036)
- HTMLDOC did not correctly parse FONT FACE attributes (PR #6006)
- Images in Level 2/3 PostScript output did not work on some printers (PR #6000)
- The GUI did not use the first page header (PR #5978)

Changes in HTMLDOC v1.8.25

New Features

- Added "--overflow" and "--no-overflow" command-line options to show or hide the content-too-large errors; the default is "--no-overflow".
- Added "--header1" command-line option and "HEADER1" page comments to set the page header for the first page of each chapter.
- Added "timing" and "remotebytes" debug data generation.
- Added DejaVu font collection to better support Cyrillic and Greek text; the new fonts are available under the generic names "monospace", "sans", and "serif".
- Added "--referer" command-line option and corresponding CGI-mode support to pass Referer: information in HTTP requests (STR #91)

Changes

- On Windows, HTMLDOC now logs CGI mode errors to a file called "htmldoc.log" in the Windows temporary directory.
- HTMLDOC no longer uses Base-85 encoding for image data when producing Level 2 and 3 PostScript output. It appears that many printers and PostScript interpreters cannot properly decode this data when the original image data is not a multiple of 8 bits.
- HTMLDOC now renders STRONG elements in boldface instead of bold-italic to match the W3C recommendations.
- HTMLDOC now automatically inserts a TR element before a TD or TH element as needed to improve web site compatibility; this also triggers a HTML error in --strict mode.

Bug Fixes

- "\$HFIMAGEn" didn't work in a header/footer string.
- HTMLDOC could crash when rendering a table.
- Book files were not used in CGI mode (STR #69)
- Cookies were not sent in HTTP requests (STR #71)
- Table cells were not aligned properly when the ROWSPAN attribute was set to 1 (STR #73)
- HTMLDOC crashed when rendering unresolved hyperlinks in aligned images (STR #62)
- Documented the HTMLDOC_NOCGI environment variable (STR #63)
- HTMLDOC sometimes crashed when rendering tables with background colors (STR #65)
- HTMLDOC would crash when writing encrypted strings longer than 1024 bytes (STR #66)
- HTMLDOC didn't set the data directory when running in CGI mode on Windows.

- HTMLDOC could crash when loading the Symbol.afm file (STR #93)
- HTMLDOC did not always honor HEIGHT attributes in table rows.
- Tables with a mix of colspan and rowspan sometimes caused cells to be moved vertically outside the cell.

Changes in HTMLDOC v1.8.24

New Features

- HTMLDOC now provides limited cookie support via the "--cookies" command-line option and via the cookies passed by a browser in CGI mode.
- HTMLDOC now features a CGI mode which provides PDF conversion functionality for web servers.
- HTMLDOC now generates a document outline for each input file or URL in webpage mode; the outline shows the title for the file and links to the first page containing that file.
- HTMLDOC now offers an "htmlsep" output type which generates HTML output with a separate file for each heading in the table of contents.
- HTMLDOC now includes LINK elements in generated HTML so that intelligent browsers like Mozilla can show next/prev/contents/top buttons.
- HTMLDOC now supports the BORDERCOLOR attribute for tables, a MSIE extension.
- The "strict HTML" mode now reports unresolved local links.
- Added support for HP LaserJet 5000 and Xerox DocuPrint 2000/100 printer commands.
- Added multiple header/footer image support.
- Links to external URLs are now resolved so that the output file can be moved without affecting them.

Changes

- The command-line now allows --fontsize values from 4 to 26 to match the GUI.
- Now use a 0.001 point tolerance when checking for content that overflows the page/cell.
- HTMLDOC no longer enables interpolation of 2-color images.
- The default vertical alignment of images is "BOTTOM" to match the HTML specification.
- Paragraph spacing is only applied to the first table after a paragraph.
- The tabloid media size was 10 points too short in length.
- The table formatter now subtracts the outside border and padding widths for percentage-based widths. This helps to eliminate "truncation or overlapping" errors.
- Dropped support for FLTK 1.0.x when building the GUI.
- The default vertical alignment is now "bottom" inside paragraphs to correctly align different sized text and images to the baseline.
- Indexed images are now written as PDF image objects when encryption is enabled; this works around a serious bug in Acrobat 6 which tries to decrypt the colormap of in-line images twice, causing some very strange colors!
- Table captions can now be bottom aligned.
- Blocks now break at the bottom of a page if the current line height + standard line height goes below the bottom of the page; this prevents images with captions from getting erroneously moved to the top of the next page.
- Character entities are now supported in HTML attributes and unknown or invalid character entities are left as plain text.
- Changed handling of NOWRAP for some tables.
- The --permissions option now supports multiple permission keywords in a single invocation.
- Dropped support for MacOS 9 and earlier.
- HTMLDOC now breaks between images that are too large to fit on a single line, to match the behavior of Mozilla/Netscape (STR #7).
- HTMLDOC now handles XHTML input more cleanly.
- HTMLDOC no longer specifies an interpolation preference for images in PostScript or PDF output (STR #8)
- The DT element no longer applies an italic style (PR #5178)

- HTMLDOC now ignores content inside a STYLE element (PR #5183)

Bug Fixes

- Switching between landscape and portrait orientations would cause margin creepage.
- Images did not default to align=bottom, and the align=bottom line spacing calculation was incorrect.
- Whitespace before a link was underlined.
- Fixed a table column sizing bug.
- HTMLDOC didn't read back the HTTP response properly in all situations.
- Fixed some more PNG transparency cases.
- The PageBoundingBox comments in PostScript output did not account for the back page when duplexing was enabled.
- HTMLDOC generated an incorrect image mask for some images.
- The first page of each chapter did not use the custom page number if it was placed inside the heading.
- HTMLDOC did not reset the rendering cache before each page when producing N-up output; this caused font errors in some cases that prevented the document from printing or displaying properly.
- Eliminated a common cause of "table too wide" formatting errors.
- Fixed a bug when applying a table background color to a cell without a border that cross a page boundary.
- Fixed some calls to strcpy with overlapping arguments.
- The names object was never set when the name objects were written.
- Character entities were not decoded/encoded inside HTML comments.
- The current heading was not always correctly substituted when used in the page header or footer.
- When converting web pages from the GUI, the table-of-contents page number preferences were incorrectly used.
- PDF page effects/transitions were not put in the right part of the page dictionary, causing them not to be used by the PDF reader application.
- The _HD_OMIT_TOC attribute was not being honored for HTML output.
- HTMLDOC now handles "open" messages from the MacOS X Finder (STR #3)
- The GUI did not load or save the "strict HTML" setting (STR #6)
- The HTML version of the title page did not set the ALT attribute for the title image (STR #10)
- The HTML version of the table of contents did not correctly nest the lists in the parent items (STR #10)
- Borders around left and right-aligned images were not drawn properly (PR #5112)
- Grayscale PDF output was not truly grayscale (STR #32)
- Fixed a table-of-contents bug introduced in 1.8.24rc1 which caused the PDF document outline and actual TOC pages were not rendered properly (STR #37)
- Links were not rendered due to a bug that was introduced in 1.8.24rc2 (STR #41)

Changes in HTMLDOC v1.8.23

New Features

- HTMLDOC now supports a full alpha channel in PNG files.
- HTMLDOC now reports an error when a table, image, or section of text overflows into an adjacent table cell or off the right edge of the page.

Changes

- The NEW SHEET page comment now breaks on N-up boundaries when N is greater than 1.

Bug Fixes

- HTMLDOC tried to format tables with no rows or columns. While the HTML is technically not in error, it is not exactly something you'd expect someone to do.
- HTMLDOC didn't report an error when it could not find the specified title page file.

- HTMLDOC could crash if it was unable to create its output files.
- HTMLDOC could crash when writing HTML output containing unknown HTML elements.
- HTMLDOC could crash when writing HTML output if the output document had no title.
- The `htmlGetText()` function used a fixed-size (10k) buffer which allowed for a buffer overflow. The new code (from HTMLDOC 1.9) allocates its buffer instead.
- The header/footer text was not centered properly if the header/footer font size was different than the default body font size.
- The GUI interface incorrectly localized URLs when doing a "save as" operation.
- The PNG background color was not correct for PNG files using ≤ 8 bits per pixel.

Changes in HTMLDOC v1.8.22

New Features

- Now support many Windows code pages in addition to ISO charsets.

Bug Fixes

- HTMLDOC could crash when checking if a URL is already cached.
- HTMLDOC didn't adjust the top margin when changing the page header if the comment didn't appear at the top of a page.
- HTMLDOC didn't initialize the right number of TOC headings.
- When using a logo image in the header, the header was placed too low on the page.

Changes in HTMLDOC v1.8.21

New Features

- HTMLDOC now supports heading levels 1 to 15.
- HTMLDOC now allows the author to omit headings from the TOC using the `_HD_OMIT_TOC` attribute.
- HTMLDOC now supports remote book files when running from the command-line.
- HTMLDOC now supports hexadecimal character constants (`ÿ`)

Changes

- HTMLDOC now calculates the resolution of the body image using the printable width instead of the page width.
- HTMLDOC should now compile out-of-the-box using the Cygwin tools.
- HTMLDOC no longer inserts whitespace between text inside DIV elements.
- HTMLDOC now supports quoted usernames and passwords in URLs.
- HTMLDOC now defaults unknown colors to white for background colors and black for foreground colors. This should make documents that use non-standard color names still appear readable.

Bug Fixes

- "make install" didn't work in the fonts directory.
- "€" didn't work, while "€" did: the character name table was not sorted properly...
- Links didn't always point to the right page in PDF output.
- XRX comment output could crash HTMLDOC.
- Fixed-width columns in tables could be resized by HTMLDOC.
- When writing PostScript commands, some printers reset their duplexing state when a new `setpagedevice` command is received; we now cache the current duplex state and change it only as needed.
- The MEDIA SIZE comment didn't adjust the printable size for the current landscape setting.
- HTMLDOC placed the header one line too high.

- When continuing a chapter onto the next page, H3 and higher headings would be indented the wrong amount.

Changes in HTMLDOC v1.8.20

New Features

- New --nup and NUMBER-UP options for PostScript and PDF output.
- HTMLDOC now logs HTML errors.
- HTMLDOC now supports the A3, B, Legal, and Tabloid size names.
- HTMLDOC now supports embedding of the base Type1 fonts in PostScript and PDF output.

Changes

- The HTML parser now allows BODY to auto-close HEAD and visa-versa.

Bug Fixes

- HTMLDOC wouldn't compile using GCC under HP-UX due to a badly "fixed" system header file (vmtypes.h).
- Generating a book without a table-of-contents would produce a bad PDF file.
- The Xerox XRX comments used the wrong units for the media size, points instead of millimeters.
- IMG elements with links that use the ALIGN attribute didn't get the links.
- Header and footer comments would interfere with the top and bottom margin settings.
- Fixed a bug in the htmlReadFile() function which caused user-provided title pages not to be displayed in PS or PDF output.
- The table-of-contents would inherit the last media settings in the document, but use the initial settings when formatting.

Changes in HTMLDOC v1.8.19

New Features

- Now support the "subject" meta variable.

Changes

- Updated the HTML parser to use HTML 4.0 rules for embedding elements inside a LI.
- Now check for a TYPE attribute on EMBED elements, so that embedded Flash files do not get treated as HTML.
- Now put the COPYRIGHT meta data in the Author field in a PDF file along with the AUTHOR meta data (if any).
- No longer embed the prolog.ps command header when PostScript commands are not being embedded in the output.
- HTMLDOC now properly ignores the HTML 4.0 COL element.

Bug Fixes

- Squeezed tables were not centered or right-aligned properly.
- Cells didn't align properly if they were the first things on the page, or if there were several intervening empty cells.
- The preferred cell width handling didn't account for the minimum cell width, which could cause some tables to become too large.
- Remote URLs didn't always resolve properly (like the images from the Google web page...)

- The font width loading code didn't force the non-breaking space to have the same width as a regular space.
- PRE text didn't adjust the line height for the tallest fragment in the line.
- HTMLDOC tried to seek backwards when reading HTML from the standard input.
- The media margin comments did not work properly when the current media orientation was landscape.

Changes in HTMLDOC v1.8.18

New Features

- Added support for remote HTML title pages.

Changes

- Now accept all JPEG files, even if they don't start with an APPn marker.
- Now only start a new page for a chapter/filter if we aren't already at the top of a page.

Bug Fixes

- ROWSPAN handling in tables has been updated to match the MSIE behavior, where the current rowspan is reduced by the minimum rowspan in the table; that is, if you use "ROWSPAN=17" for all cells in a row, HTMLDOC now treats this as if you did not use ROWSPAN at all. It is unclear if this is what the W3C intends.
- The "--webpage" option didn't force toc levels to 0, which caused a bad page object reference to be inserted in the PDF output file.
- Background colors in nested tables didn't always get drawn in the right order, resulting in the wrong colors showing through.
- The HEADER page comment didn't set the correct top position in landscape orientation.

Changes in HTMLDOC v1.8.17

New Features

- Improved table-of-contents generation, with chapter headings at the top of new TOC pages and page numbers based on the header/footer string.
- Added new "--no-localfiles" option to disable access to local files for added security in web services.
- Long lines in book files can not be broken up using a trailing backslash.
- Added a modern "skin" to the GUI interface.

Changes

- Made some changes in how COLSPAN and ROWSPAN are handled to better match how Netscape and MSIE format things.
- HTMLDOC now handles .book files with CR, LF, or CR LF line endings.
- Changed the TOC numbering to use 32-bit integers instead of 8-bit integers...
- Now handle local links with quoted (%HH) characters.
- The command-line interface no longer sets PDF output mode when using --continuous or --webpage.
- HTMLDOC now opens HTML output files in binary mode to prevent extra CR's under Windows, and strips incoming CR's from PRE text.
- Now support inserting the current chapter and heading in the table-of-contents headers and footers.

Bug Fixes

- The table cell border and background were offset by the cellpadding when they should only be offset by the cellspacing.
- The buffer used for periods that lead up to the page number in the table-of-contents was not large enough for a legal-size document in landscape format.
- If a book only contained chapter headings, the PDF bookmarks would be missing the last chapter heading.
- Table cells that ended with a break would render incorrectly.
- Fixed the table pre-format sizing code to properly account for borders, padding, etc.
- Fixed the table squeezing code to honor minimum widths and properly resize the remaining space.
- The MEDIA SIZE page comment did not reset the printable width and length of the page.
- Tables that used COLSPAN did not honor WIDTH values in non-spanned cells.

Changes in HTMLDOC v1.8.16

Changes

- Now break before and after DIV groups to match most browsers (the HTML spec is ambivalent about it...)

Bug Fixes

- HR elements didn't render properly.
- Background images didn't render properly and could lock up HTMLDOC.
- The "HALF PAGE" comment would lock up HTMLDOC - HTMLDOC would keep adding pages until it ran out of memory.
- SUP and SUB used a fixed (reduced) size instead of using a smaller size from the current one.
- Empty cells could cause unnecessary vertical alignment on the same row.

Changes in HTMLDOC v1.8.15

New Features

- Now support media source, type, and color attributes in PS output.
- Now support per-page size, margins, headers, footers, orientation, and duplexing.
- Now support plain text for headers and footers, with \$ variables to include page numbers and so forth.
- New device control prolog file for printer-specific option commands.
- Now support a new continuous web page mode that doesn't automatically insert a page break with each HTML file or URL (--continuous).
- Now draw border around inline images as needed.
- Now support MacOS X (only command-line at present).
- Now support the "page-break-before", "text-align", "vertical-align" style attributes, but only for style information in an element's STYLE attribute.

Changes

- Now load images into memory only as needed, and unload them when no longer needed. This provides a dramatic reduction in memory usage with files that contain a lot of in-line images.
- Now use the long names for the Flate and DCT filters in all non-inline PDF streams. This avoids a stupid bug in Acrobat Reader when printing to PostScript printers.
- HTMLDOC now strips any trailing GET query information when saving the start of files (target) in a document.

- Unqualified URLs (no leading scheme name, e.g. http:) now default to the HTTP port (80) instead of the IPP port (631).
- Optimized the image writing code to do more efficient color searching. This provides a significant speed improvement when including images.
- Now hide all text inside SCRIPT, SELECT, and TEXTAREA elements.
- OS/2 port changes from Alexander Mai.

Bug Fixes

- If a document started with a heading greater than H1, HTMLDOC would crash.
- Full justification would incorrectly be applied to text ending with a break.
- Images using ALIGN="MIDDLE" were not centered properly on the baseline.
- Table cells that used both ROWSPAN and COLSPAN did not format properly (the colspan was lost after the first row.)
- Tables that used cells that exclusively used COLSPAN did not format properly.
- When writing HTML output, image references would incorrectly be mapped using the current path.
- Images with a width or height of 0 should not be written to PS or PDF output.
- The CreationDate comment in PostScript output contained a bad timezone offset (+-0500, for example, instead of -0500).
- The PHP portal example now verifies that the URL passed to it contains no illegal characters.

Changes in HTMLDOC v1.8.14

New Features

- Added support for 128-bit encryption.
- Added support for GET form request data in the PHP and Java "portal" examples.

Changes

- Most output generation limits have been removed; HTMLDOC now dynamically allocates memory as needed for pages, images, headings, and links. This has the happy side-effect of reducing the initial memory footprint significantly.
- Now call setlocale() when it is available to localize the date and time in the output.
- The table parsing code now checks to see that a ROWSPAN attribute fits in the table; e.g., a ROWSPAN of 10 for a table that has only 6 rows remaining needs to be reduced to 6...

Bug Fixes

- Tables with a lot of COLSPANS could cause a divide-by-zero error or bad pages (NAN instead of a number.)
- Table cells with a single render element would not be vertically aligned.
- The --quiet option would enable progress messages on the command-line.
- Table cell widths could be computed incorrectly, causing unnecessary wrapping.

Changes in HTMLDOC v1.8.13

New Features

- Added support for secure (https) URLs via the OpenSSL library.
- Added support for Acrobat 5.0 (PDF 1.4).
- Added support for transparency in PostScript and PDF 1.1 and 1.2 output.
- Added a --no-jpeg option (same as --jpeg=0)

- Added support for the CSS2 page-break-before and page-break-after properties.
- Added a PHP example.

Changes

- External file references to non-PDF files now use the "Launch" action so they can be opened/executed/saved as allowed by the OS and PDF viewer.
- Changed the indexed/JPEG'd transition point to 256 colors when using Flate compression. This makes PDF files much smaller in general.
- Changed the in-line image size limit to 64k.
- Now allow "<" followed by whitespace, "=", or "<". This violates the HTML specification, but we're sick of people complaining about it.
- Preferences are now stored in a user-specific file under Windows, just like UNIX. This provides user-specific preferences and allows preferences to be kept when upgrading to new versions of HTMLDOC.
- The book loading code now allows for blank lines, even though these are not a part of the format. (added to support some scripted apps that include extra newlines...)
- Changed the leading space handling of blocks to more closely match the standard browser behavior.

Bug Fixes

- The table formatting code adding the border width to the cell width, while Netscape and MSIE don't. This caused some interesting formatting glitches...
- The table formatting code didn't account for the preferred width of colspan'd cells.
- The table formatting code tried to enforce the minimum cell width when squeezing a table to fit on the page; this caused the table to still exceed the width of the page.
- The PDF catalog object could contain a reference to a /Names object of "0 0 R", which is invalid. This would happen when the "--no-links" option was used.
- Several HTML elements were incorrectly written with closing tags.
- When piping PDF output, the temporary file that is created needed to be open for reading and writing, but HTMLDOC only opened the file for writing.
- Image links did not work.
- The JPEG image loading code did not correctly handle grayscale JPEG images.
- JPEG images were not encrypted when writing a document with encryption enabled.
- The user password was not properly encrypted.
- The colormap of indexed images were not encrypted when writing a document with encryption enabled.
- The temporary file creation and cleanup functions did not use the same template under Windows, causing multiple conversions to fail when temporary files were used.
- Paragraphs could end up with one extra text fragment, causing the line to be too long.
- The command-line program would clear the error count after reading all the files/URLs on the command-line, but before generating the document. If there were problems reading the files/URLs, HTMLDOC would return a 0 exit status instead of 1.
- Image objects that were both JPEG and Flate compressed would not display (filters specified in the wrong order.)
- Images with more than 256 colors would cause a segfault on some systems.
- Background images would generate the error message "XObject 'Innn' is unknown".

Changes in HTMLDOC v1.8.12

New Features

- Added new "--batch" option to convert HTMLDOC book files from the command-line.
- Added support for the "-display" option on systems that use X11.

- Now use image objects in PDF output for images when the image width * height * depth > 32k.
- Now use JPEG compression when the number of colors would be > 32 colors or 16 gray shades.
- True transparency support for GIF files in PDF 1.3 output!
- The GUI now automatically changes the extension of the output filename as needed.
- The GUI now collects all error messages and shows them once after the document is generated.
- Added support for HSPACE and VSPACE attributes for images with ALIGN="LEFT" or ALIGN="RIGHT".
- Added new Java interface to HTMLDOC.

Changes

- Consolidated temporary file management into new file_temp() function. The new function also makes use of the Windows "short lived" open option which may improve performance with small temporary files.
- Updated book file format and added an appendix describing the format.
- Now default to PDF 1.3 (Acrobat 4.0) output format.
- Now output length of PDF streams with the stream object; this offers a modest reduction in file size.
- The HTTP file cache now keeps track of previous URLs that were downloaded.
- The HTTP code now supports redirections (status codes 301 to 303) to alternate URLs.
- Limit the height check for table rows to 1/8th of the page length; this seems to provide fairly consistent wrapping of tables without leaving huge expanses of blank space at the bottom of pages.
- The HTML output now also includes a font-family style for PRE text; otherwise the body font would override the PRE font with some browsers.
- The snprintf/vsnprintf emulation functions were not included in the HTMLDOC makefile.
- RGB hex colors are now recognized with or without the leading #. This breaks HTML standards compliance but should reduce the number of problem reports from buggy HTML.
- The stylesheet generated with the HTML output no longer contains absolute font sizes, just the typefaces and a relative size for SUB/SUP.
- The title image is no longer scaled to 100% in the HTML output.

Bug Fixes

- The web page output was not divided into chapters for each input file.
- The "make install" target did a clean.
- The configure script would remove the image libraries if you did not have FLTK installed.
- The fix_filename() function didn't handle relative URLs for images (e.g. SRC="../images/filename.gif")
- Comments in the source document were being closed by a ".".
- The command-line and GUI interfaces looked for "outlines" instead of "outline" for the page mode.
- The HTML output code didn't output closing tags for empty elements.
- The GUI interface started with the compression slider enabled, even for HTML output.
- The beginnings of some lines could start with whitespace.
- Wasn't aligning images and text on lines based on the line height.
- The compression slider was enabled in the GUI even though HTML output was selected.
- The Perl example code was incorrect.
- Fixed the check for whether or not pages were generated.
- htmlSetCharSet() wasn't reloading the character set data if the data directory changed.
- The GUI did not reset the default background color.
- The 'C' page number style (chapter page numbers) started at 3 instead of 1.
- The chapter links were off by 1 or 2 pages when no title page was included.

Changes in HTMLDOC v1.8.8

New Features

- Added support for PDF security/encryption!
- Now support TABLE height attribute.
- Now generate an error message if no pages are generated (with a suggestion to use the webpage option.)
- New "paths" option to specify additional directories to search for files. This is useful when the source files use absolute server paths.

Changes

- Added missing casts in htmllib.cxx that were causing a compile warning with some compilers.
- No longer draw borders around empty cells in tables...
- Now disable the TOC tab when using webpage mode.
- Now scale title image to 100% in HTML output.
- Now handle comments with missing whitespace after the "<!--".

Bug Fixes

- Nested tables didn't take into account the table border width, spacing, or padding values.
- HTMLDOC crashed under Solaris when reading HTML files from the standard input.
- `<ELEM>text</ELEM> <MELE>text</MELE>` was rendered without an intervening space.

Changes in HTMLDOC v1.8.7

New Features

- The configure script now uses the local PNG, ZLIB, and/or JPEG libraries when they are new enough.
- The configure script now uses the `-fno-rtti`, `-fno-exceptions`, and `-fpermissive` options as needed with GCC (smaller, faster executables, works around X header bugs in Solaris.)
- Added a `--toctitle` option to set the table-of-contents title from the command-line (was only available in the GUI in previous releases...)
- New "`<!-- NEED amount -->`" comment to force a page feed if there is not sufficient room on the page for the following text.
- Page comments are now supported in tables.
- Table rows are now allocated dynamically, MAX_ROWS at a time.

Changes

- Increased default MAX_PAGES to 10000 (was 5000.)
- File links in book files now point to the top of the next page.
- `<TABLE ALIGN=xyz>` now aligns the table (previously it just set the default alignment of cells.)
- Transparent GIFs now use the body color instead of white for the transparent color.
- Updated to LIBPNG 1.0.6 in source distribution.
- Updated the default cellpadding to be 1 pixel to match Netscape output.
- Updated line and block spacing to match Netscape.
- DL/DT/DD output now matches browsers (was indented from browser output.)
- Now only output link (A) style if it is set to "none". Otherwise Netscape would underline all targets as well as links.
- Increased the MAX_COLUMNS constant to 200, and dropped MAX_ROWS to 200. Note that the new table code now allocates rows in increments of MAX_ROWS rows, so the actual maximum number of rows depends on available memory.

Bug Fixes

- Now ignore illegal HTML in tables.
- The VALIGN code didn't handle empty cells properly.
- Wasn't offsetting the start of each row by the cell padding.
- The JPEG image loading code didn't work for some JPEG images, particularly those from digital cameras (JPEG but not JFIF format.)
- The strikethrough line was not being drawn in the correct position.
- Wasn't setting the height of BR elements, so

 didn't insert a blank line.
- The table of contents would show the wrong page numbers if no title page was generated.
- Cell widths did not subtract any border, padding, or spacing from the "preferred" width, causing formatting differences between web browsers and HTMLDOC.
- The PNG loading code did not handle interlacing or transparency.
- The HTML parsing code did not prevent elements in embedded files from completing elements in the parent file.
- The table CELLSPACING amount was being applied twice in the table sizing calculations.

Changes in HTMLDOC v1.8.6

New Features

- New linkcolor and linkstyle options.

Changes

- Minor source changes for OS/2 compilation.
- SUP and SUB now raise/lower text more to be consistent with browser look-n-feel.
- Non-breaking space by itself was being output. Now check for that and ignore strings that consist entirely of whitespace.
- New progress bar.

Bug Fixes

- Didn't add whitespace after a table caption.
- Nested tables caused formatting problems (flatten_tree() didn't insert breaks for new rows)
- A cell whose minimum width exceeded the available width for the table would cause the table to go off the page.
- Cells that spanned more than two pages were drawn with boxes around them rather than just the sides.
- The stylesheet info in the HTML output specified the H1 size for all headings.
- The title page was incorrectly formatted when an image was specified - the text start position was computed using the pixel height of the title image and not the formatted height.
- 1 color images didn't come out right; the "fix" to work around an Acrobat Reader bug was being done too soon, so the color lookups were wrong.
- HTML file links now work properly.
- Now limit all HTML input to the maximum size of input buffers to avoid potential buffer overflow problems in CGIs.
- If a row had a predefined height, HTMLDOC wasn't making sure that the row would fit on the current page.
- THEAD, TFOOT, and TBODY caused problems when formatting tables. Note: THEAD and TFOOT are *still* not supported, however the code now properly ignores them and parses the rows in the TBODY group.
- The VALIGN code introduced in the 1.8.5 release didn't check for NULL pointers in all cases.

Changes in HTMLDOC v1.8.5

New Features

- New "--titlefile" option to include an HTML file for the title page(s).
- New 'C' header/footer option to show current page number within chapter or HTML file.
- Allow adding of .book files to import all HTML files in the book.
- New "HALF PAGE" page comment to feed 1/2 page.
- Added VALIGN and HEIGHT support in tables.

Changes

- Now optimize link objects in PDF files (provides a 40k reduction in file size for the HTMLDOC manual alone)
- Table rows that cross page boundaries are now rendered more like Netscape and MSIE.
- Now support HTMLDOC_DATA and HTMLDOC_HELP environment variables under UNIX (for alternate install directory)
- Now show error messages when HTMLDOC can't open the AFM, character set, or PostScript glyph files.
- The logo image is now scaled to its "natural" size (as it would appear in a web browser)
- Now recognize VALIGN="MIDDLE" or VALIGN="CENTER".

Bug Fixes

- Generation of PDF files to the standard output (i.e. to the web server + browser) didn't work on some versions of UNIX. HTMLDOC now writes the PDF output to a temporary file and then copies it to the standard output as needed.
- PDF links were missing the first 5 characters in the filename; the code was trying to skip over the "file:" prefix, but that prefix was already skipped elsewhere.
- Nested descriptive lists (DL) did not get rendered properly.
- Tables had extra whitespace before and after them.
- Multiple aligned images confused parse_paragraph(); the images would overlap instead of stack on the sides.

Changes in HTMLDOC v1.8.4

Changes

- More configure script changes for FLTK DSOs.
- FileIcon.cxx was still using NULL for outline (an integer), which caused some ANSI C++ compilers to complain.

Bug Fixes

- The Fonts and Colors tab groups did not extend to the full width of the tab area, which prevented the Browse button from working when clicked on the right side.
- The help dialog window did not scroll all the way to the bottom of the text.
- The chapter ("c") header/footer string did not work.
- The heading ("h") header/footer string did not always match the first heading on a page.
- The header and footer fonts were not used when computing the widths of the header and footer strings.
- The Windows distribution did not create the right shortcut for the Users Manual in the Start menu.
- The command-line code did not accept "--grayscale", only "--gray"

- Multi-file HTML output did not use the right link for the table-of-contents file if no title page was being generated.
- Extra whitespace before and after tables has been eliminated.

Changes in HTMLDOC v1.8.3

New Features

- New "--browserwidth" option to control scaling of images and tables that use fixed pixel widths.

Changes

- The configure script now looks for the OpenGL library (required if you use a shared FLTK library with OpenGL support.)
- Increased the max number of chapters to 1000.

Bug Fixes

- Page break comments didn't force a paragraph break.
- --no-toc prevented chapters from being output in PS and PDF files.
- Filenames didn't always get updated properly when doing a "save as"...
- Fixed some more leading/trailing whitespace problems.
- Wasn't freeing page headings after the document was generated.
- Wasn't range checking the current chapter number; now limits the number of chapters to MAX_CHAPTERS and issues an error message whenever the limit is exceeded.

Changes in HTMLDOC v1.8.2

New Features

- New "setup" program for UNIX software installation.

Changes

- Documentation updated for new UNIX "setup" program and "..." usage for headers and footers.
- Changed margins to floating point (instead of integer) to improve table column accuracy.

Bug Fixes

- HTMLDOC could crash under Microsoft Windows with some types of HTML files. This was caused by a stack overflow, usually when processing nested tables.
- Multiple HTML files weren't being converted properly in web page mode - only the last file would be generated for PostScript output, and no file for PDF output.
- Wasn't preserving the whitespace between "one" and "two" in the HTML code "one<I> two</I> three".
- Paragraph spacing was inconsistent.
- <TABLE WIDTH="xx"> wasn't formatted properly.
- The command-line code wasn't opening HTML files in binary mode. This caused problems under Microsoft Windows.

Changes in HTMLDOC v1.8.1

Changes

- The configure script didn't update the ARFLAGS variable for *BSD operating systems (no "s" option to build the symbol table...)
- Changed the installation commands to only create the installation directory if it does not exist. This prevents installation errors on some platforms the second time around.
- Now use the Microsoft definitions for characters 128 through 159 that are otherwise unused by the ISO-8859-x character sets.
- Now set optimization settings when we know the compiler.
- Now always quote attribute values in HTML output to make HTML lint programs happy.

Bug Fixes

- Wasn't using TOC title string in PDF document outline.
- Preformatted text in tables didn't force the column width.
- Cells using COLSPAN > 1 didn't contribute to the width of columns.
- The table code didn't enforce the per-column minimums under certain circumstances, causing "scrambled" columns.
- The configure script and makefiles didn't work when FLTK was not available. They now only build the "gui" library when it is available.
- The Windows distribution was installing files under PROGRAMDIR instead of TARGETDIR. This prevented users from customizing the installation directory.
- The configure script overrode the LDFLAGS environment variable, preventing FLTK from being located in a non- default directory.

Changes in HTMLDOC v1.8

New Features

- Now support PDF 1.1 (Acrobat 2.x) and PDF 1.3 (Acrobat 4.0).
- Now support PDF page modes, layouts, and effects, and the first page that is displayed in Acrobat Reader.
- Now support PostScript Level 3 output with Flate image compression.
- Now support PostScript commands for page size and duplexing.
- Now add filenames as needed to HTML links.
- Added optimizations to output code to further reduce PDF and PostScript file size.
- Now support alternate 8-bit character sets. Currently we supply data files for the ISO-8859-N character sets.
- Added chapter headings to the available header/footer formats.
- The GUI file chooser is significantly improved and supports selection of multiple HTML files.
- The GUI now provides on-line help.
- Many other GUI improvements.
- Added support for DIR and MENU block elements.
- The header and footer text can now be made boldface, italic, etc.
- Font settings are now exported to HTML files in a style sheet.
- Now support page breaks using HTML comments.
- The image dimensions are now exported to HTML files.
- Added landscape printing option.
- Added CAPTION support for tables.
- Filename links now work for HTML files included in a document.
- Now support BGCOLOR in tables.

Changes

- Lots of documentation changes.
- Much better table formatting.
- Changed HTML output to use less invasive navigation bars at the top and bottom of each file. This also means that the "--barcolor" option is no longer supported!
- Updated to use existing filenames in HTML (directory) output.
- Now recognize any local PDF file as a local file link (i.e. you just need "HREF=filename.pdf" and not "HREF=file:filename.pdf")
- <TT>, <CODE>, and <SAMP> no longer reduce the font size.
- Now put whitespace after image data in PDF files. This change was needed to work around a bug in Acrobat Reader 4.0.
- Now generate a complete encoding vector for fonts in PDF files. This change was needed to work around a bug in all versions of Acrobat Exchange that did not recognize the WinANSI encoding defined in the PDF specifications.
- Now filter out the BREAK attribute from HR elements.
- Now only load images once.

Bug Fixes

- Wasn't escaping &, <, or > in HTML output
- Wasn't preserving
- Links in multi-file HTML output were off-by-one.
- BLOCKQUOTE needed to be like CENTER and DIV.
- Needed to use existing link name if present for headings to avoid nested link name bug in Netscape and MSIE.
- Extremely long link names could cause TOC generation to fail and HTMLDOC to crash.
- PDF output was not compatible with Ghostscript/Ghostview because Ghostscript does not support inherited page resources or the "Fl" abbreviation for the "FlateDecode" compression filter.
- PostScript DSC comments didn't have unique page numbers. This caused Ghostview (among others) to get confused.
- Some functions didn't handle empty text fragments.
- Images couldn't be scaled both horizontally and vertically.
- didn't support the VALUE attribute (but did...)
- Fixed whitespace problems before and after some markups that was caused by intervening links.
- The indexed image output code could generate an image with only 1 color index used, which upset Acrobat Reader.
- Fixed a bug in table-of-contents handling - HTMLDOC would crash on some systems if you converted a web page on the command-line.
- Wasn't setting the font size and spacing soon enough when generating files on the command-line.
- Didn't hide EMBED elements when generating indexed HTML files.
- Didn't always set the current drawing position before drawing a box or line.
- Base85 encoding of image data was broken for PostScript output.
- JPEG compression was broken for PostScript output.
- Didn't set binary mode for the standard output under Windows and OS/2 needed.

Appendix D - Compiling HTMLDOC from Source

This chapter describes the steps needed to install HTMLDOC on your system from the source distributions.

Requirements

HTMLDOC requires ANSI C and C++ compilers - recent versions of GCC/EGCS work fine. To build the GUI you'll also need:

- Fast Light Tool Kit ("FLTK"), version 1.1 or higher.
- X11 libraries, R5 or higher (needed to build under UNIX and OS/2 only.)

Secure (https) URL support can be enabled via the OpenSSL library. You should use at least version 0.9.6l.

Compiling under UNIX/Linux

HTMLDOC uses a configuration script produced by GNU autoconf to configure itself for your system. If your ANSI C compiler is not called `cc` or `gcc`, set the `CC` environment variable to the name and path of your ANSI C compiler:

```
% setenv CC /path/to/compiler ENTER      [C Shell]
% CC=/path/to/compiler; export CC ENTER  [Bourne/Korn Shell]
```

Similarly, if your C++ compiler is not called `CC`, `gcc`, `c++`, or `g++`, set the `CXX` environment variable to the name and path of your C++ compiler:

```
% setenv CXX /path/to/compiler ENTER      [C Shell]
% CXX=/path/to/compiler; export CXX ENTER  [Bourne/Korn Shell]
```

Then run the following command to configure HTMLDOC for installation in the default directories:

```
% ./configure ENTER
```

The default configuration will install HTMLDOC in the */usr/bin* directory with the data files under */usr/share/htmldoc* and the documentation and on-line help under */usr/share/doc/htmldoc*. Use the *--prefix* option to change the installation prefix to a different directory such as */usr/local*:

```
% ./configure --prefix=/usr/local ENTER
```

If the OpenSSL library is not installed in a standard location for your compilers, use the *--with-openssl-includes* and *--with-openssl-libs* options to point to the OpenSSL library:

```
% ./configure --with-openssl-libs=/path/to/openssl/lib \  
--with-openssl-includes=/path/to/openssl ENTER
```

HTMLDOC is built from a Makefile in the distribution's main directory. Simply run the "make" command to build HTMLDOC:

```
% make ENTER
```

If you get any fatal errors, please report them on the `htmldoc.general` newsgroup at:

<http://www.easysw.com/newsgroups.php>

Please note the version of HTMLDOC that you are using as well as any pertinent system information such as the operating system, OS version, compiler, and so forth. Omitting this information may delay or prevent a solution to your problem.

Once you have compiled the software successfully, you may install HTMLDOC by running the following command:

```
% make install ENTER
```

If you are installing in a restricted directory like */usr* then you'll need to be logged in as root.

Compiling on Windows Using Visual C++

A Visual C++ 6.0 workspace file and associated project files are included in the source distribution under the "visualc" directory. Open the workspace file "htmldoc.dsw", adjust the FLTK include and project file locations, and then build the HTMLDOC target.

Note:

You also need to download the OpenSSL and FLTK libraries in order to compile HTMLDOC with Visual C++.

Installing with Visual C++

To install HTMLDOC with Visual C++, create an installation directory and copy the *ghhtmldoc.exe* and *htmldoc.exe* executables, the *afm* directory, the *data* directory, and the *doc* directory to it.

Then use the *regedit* program to create the following two string entries:

```
HKEY_LOCAL_MACHINE\Software\Easy Software Products\HTMLDOC\data
```

HTMLDOC 1.8.27 Software Users Manual

C:\installation\directory
HKEY_LOCAL_MACHINE\Software\Easy Software Products\HTMLDOC\doc
C:\installation\directory\doc

