



<HTML>DOC

HTMLDOC 1.8.12 Software Users Manual

ESP-003-20010313

Easy Software Products

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Introduction

This document describes how to use the *HTMLDOC* software, version 1.8.12. *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.

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*.

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 is now owned by [INSO](#).) 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 UNIX® 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 chapter:

- [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](#) – GNU General Public License
- [Appendix B](#) – Book File Format

Support

Commercial support is available from Easy Software Products. Information can be found at the *HTMLDOC* web page, "<http://www.easysw.com/htmldoc>".

Encryption Support

HTMLDOC includes code to encrypt PDF document files using the RC4 algorithm with a 40-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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This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the [GNU General Public License](#) for more details.

A copy of the GNU General Public License is included in [Appendix A](#) of this manual. If this appendix is missing from your copy of HTMLDOC, write to the Free Software Foundation, Inc., 59 Temple Place – Suite 330, Boston, MA 02111–1307, USA.

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

Chapter 1 – Installing HTMLDOC

This chapter describes the steps needed to install *HTMLDOC* on your system from any of the source or binary distributions.

Installing a Binary Distribution

HTMLDOC binary distributions are available for a number of UNIX and Windows platforms.

Requirements

HTMLDOC requires approximately 2MB of disk space and one of the following environments:

- Compaq Tru64 UNIX 4.0 or higher
- HP-UX 10.20 or higher
- IRIX 5.3 or higher
- Linux 2.0 or higher
- Microsoft Windows 95
- Microsoft Windows 98
- Microsoft Windows Me
- Microsoft Windows NT 4.0
- Microsoft Windows 2000
- Solaris 2.5 or higher

Installing HTMLDOC under Debian GNU/Linux

Run the following command to install *HTMLDOC* under Debian GNU/Linux:

```
% dselect install htmldoc-1.8-linux-2.0.36-intel.deb ENTER
```

Ininstalling HTMLDOC under Debian GNU/Linux

Run the following command to install *HTMLDOC* under Debian GNU/Linux:

```
% dselect remove htmldoc-1.8-linux-2.0.36-intel.deb ENTER
```

Installing HTMLDOC under Red Hat Linux

Run the following command to install *HTMLDOC* under Red Hat Linux:

```
% rpm -i htmldoc-1.8-linux-2.0.36-intel.rpm ENTER
```

Uninstalling HTMLDOC under Red Hat Linux

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

```
% rpm -e htmldoc ENTER
```

Installing HTMLDOC under UNIX

Run the following commands to install *HTMLDOC* under UNIX:

```
% gunzip htmldoc-1.8-platform.tar.gz ENTER
% tar xf htmldoc-1.8-platform.tar ENTER
% ./setup ENTER
```

Substitute the correct platform string as needed.

Uninstalling HTMLDOC under UNIX

Run the following command to remove *HTMLDOC* from your UNIX system:

```
% /etc/software/htmldoc.remove ENTER
```

Installing HTMLDOC under Windows

HTMLDOC is provided in a self-extracting installation file under Windows. Double-click on the setup icon to install *HTMLDOC* under Windows.

Uninstalling HTMLDOC under 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.

Installing HTMLDOC from the Source Distribution

The complete source to *HTMLDOC* is available to build HTMLDOC for different directories, architectures, or operating systems.

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 1.0 or newer (version 1.0.10 preferred).
- [X11 libraries](#), R5 or higher (needed to build under UNIX and OS/2 only.)

Configuring the UNIX Source

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

Finally, if the FLTK library is not installed in a standard location for your compilers, set the *CFLAGS*, *CXXFLAGS*, and *LDFLAGS* environment variables to point to the FLTK library:

```
% setenv CFLAGS -I/path/to/fltk       [C Shell]
% setenv CXXFLAGS -I/path/to/fltk
% setenv LDFLAGS -L/path/to/fltk/lib

% CFLAGS=-I/path/to/fltk; export CFLAGS [Bourne/Korn Shell]
% CXXFLAGS=-I/path/to/fltk; export CXXFLAGS
% LDFLAGS=-L/path/to/fltk/lib; export LDFLAGS
```

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 */usr/local*:

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

Compiling under UNIX

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 subscribe to the *HTMLDOC* mailing list and send a copy of the make/compiler output to "htmldoc@easysw.com" for assistance. Please note the version of *HTMLDOC* that you are using as well as any pertinent system information (operating system, OS version, compiler, etc.)

To subscribe to the *HTMLDOC* mailing list, send a message to "majordomo@easysw.com" with the text:

```
subscribe htmldoc
```

in the message body. *You must subscribe to the list to post questions and comments.*

Installing under UNIX

To install *HTMLDOC* simply run the "make install" 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 with 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.

Installing with Visual C++

The Windows installation package is created using InstallShield for Visual C++ 6. The "visualc/*HTMLDOC*" directory contains the installation information for *HTMLDOC* needed to build a binary distribution with InstallShield.

To install *HTMLDOC* without InstallShield, create an installation directory and copy the *htmldoc.exe* executable, 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
  C:\installation\directory
HKEY_LOCAL_MACHINE\Software\Easy Software Products\HTMLDOC\doc
  C:\installation\directory\doc
```

Chapter 2 – Getting Started

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

Starting HTMLDOC

To start *HTMLDOC* under UNIX type:

```
% htmldoc ENTER
```

Choose *HTMLDOC* from the *Start* menu to start *HTMLDOC* under Windows.

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.

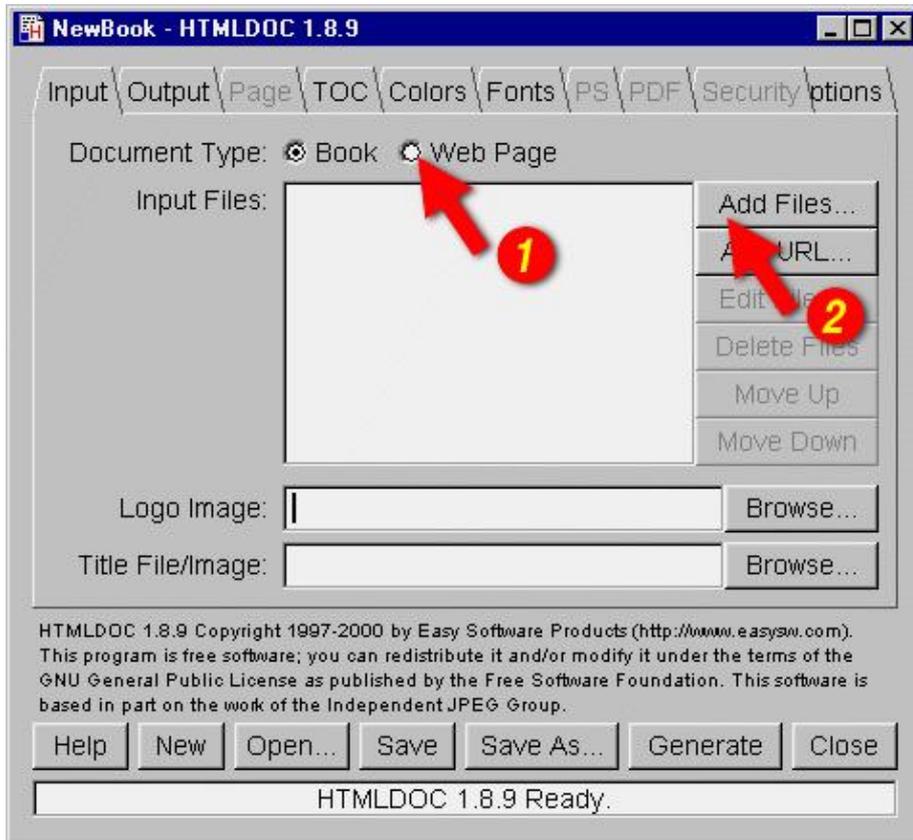


Figure 2-1 – The HTMLDOC Window

Then choose a file for conversion by clicking on the *Add Files...* button (2). When the file chooser dialog appears (Figure 3), double-click on the HTML file (3) you wish to convert from the list of files.

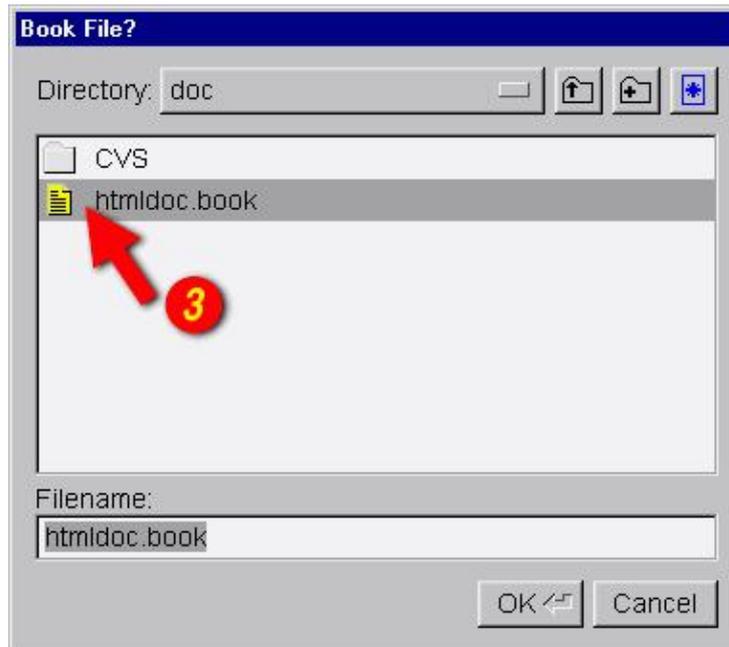


Figure 2-2 – The File Chooser Dialog

Setting the Output File

Now that you've chosen a HTML file to convert, click on the *Output* tab (4) to set the output file (Figure 2–3). 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.

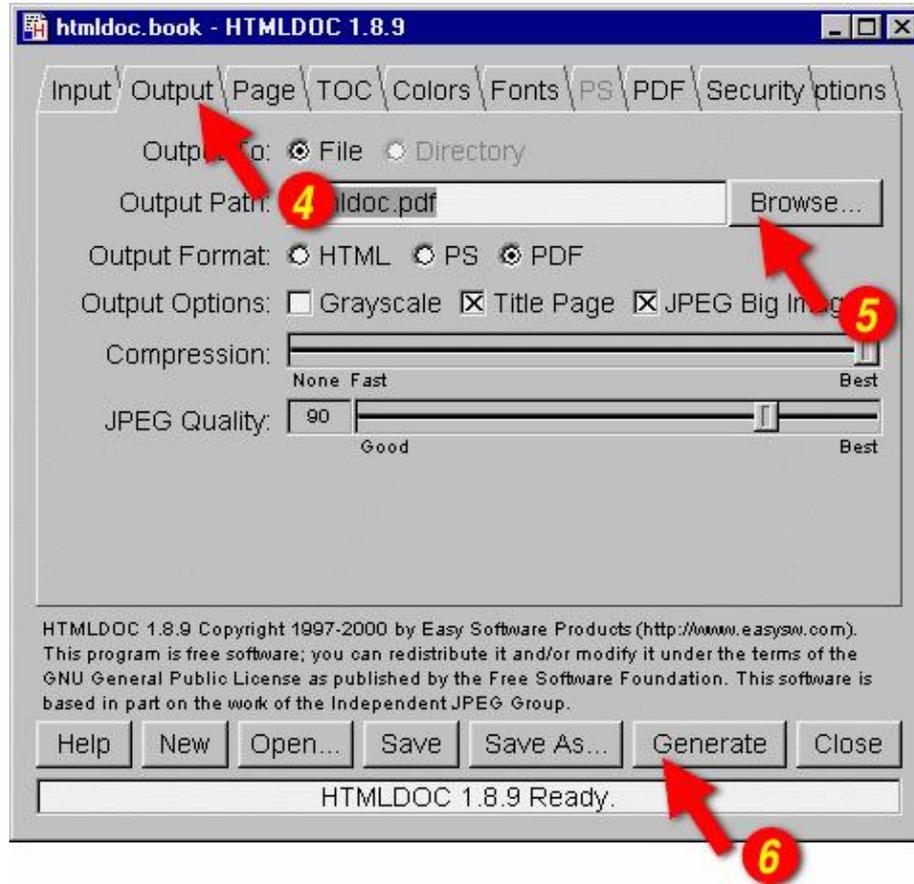


Figure 2–3 – The Output Tab

Since you chose to convert a *Web Page* instead of a book, *HTMLDOC* has automatically chosen to produce a PDF file.

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. When the conversion is completed you can open the PDF file that is produced using Adobe Acrobat Reader or any other PDF viewing application.

Chapter 3 – Generating Books

This chapter describes how to generate whole books from HTML files.

Overview

While *HTMLDOC* can convert web pages into PostScript and PDF files, its real strength is generating index 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.

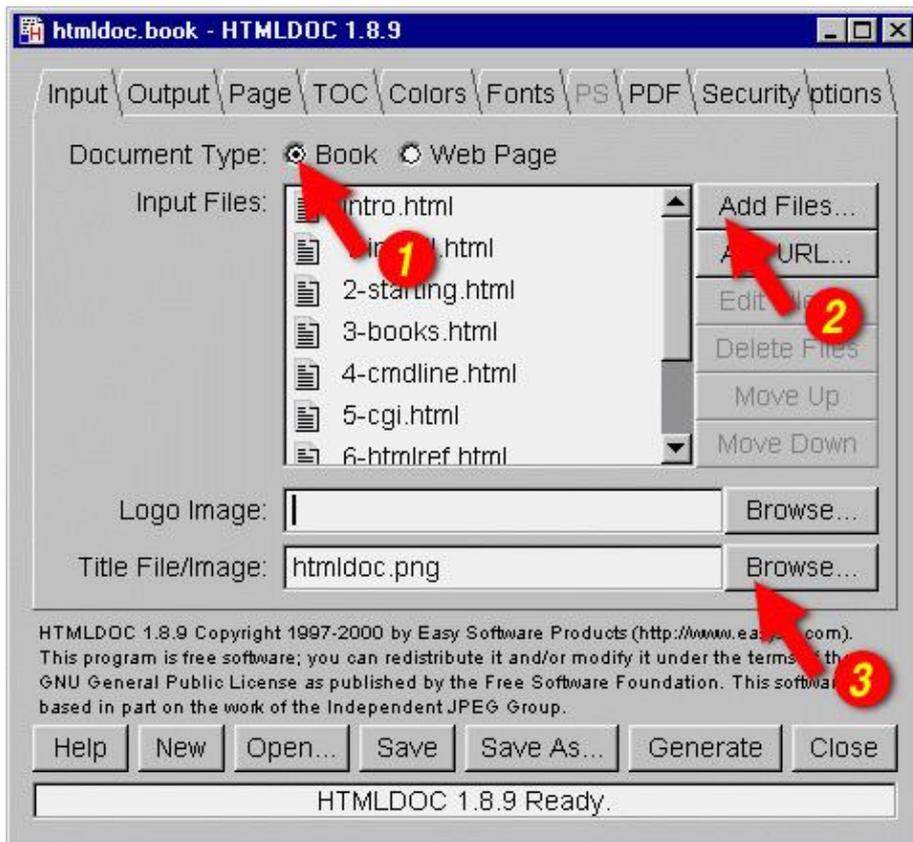


Figure 3–1: The Input Tab

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.

Then 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 from the list of files and then click on the *OK* button.

Selecting a Title File

HTMLDOC supports automatic generation of a title page using an image file, the title text, and other *META* information on it. Type the title image filename into the *Title File* field or click on the *Browse...* button (3) to select a title image for your book.

HTMLDOC can also use a HTML file that you have generated for the title page(s). To use a HTML title page, type the title filename into the *Title File* field or click on the *Browse...* button (3) to select a HTML file for your book.

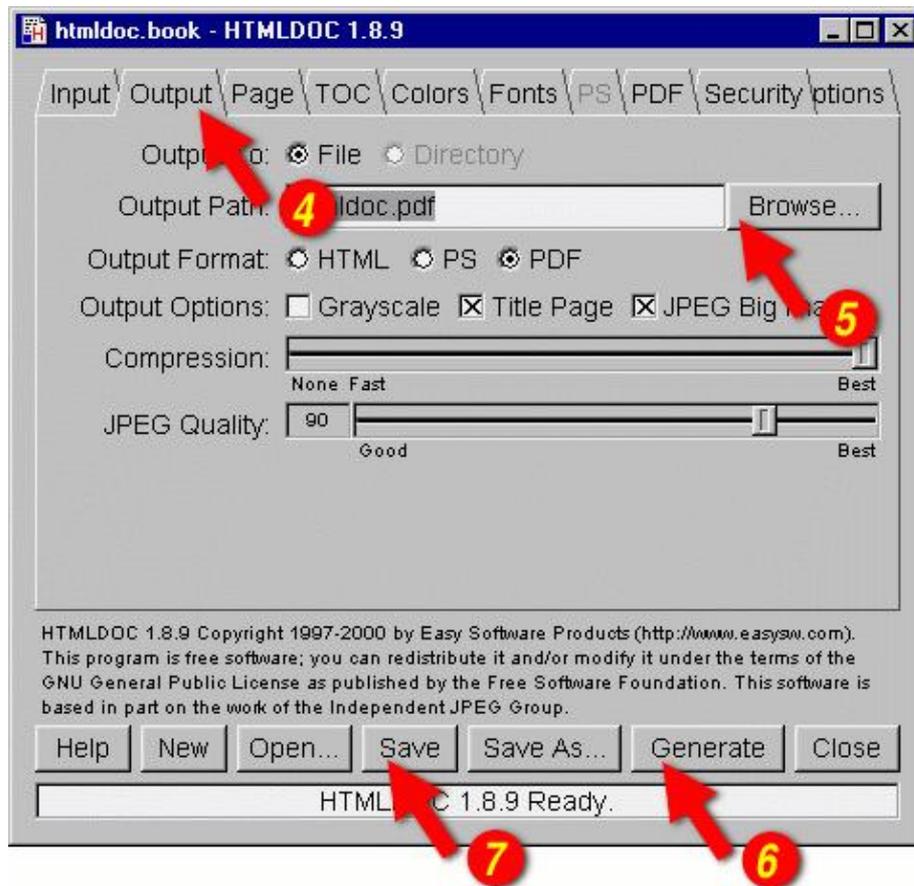


Figure 3–2: The Output Tab

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.

Converting Web Pages

To convert a web page type:

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

where `output.pdf` and `output.ps` are the names of the files you want to generate, and `filename.html` is the HTML file you are converting.

The "`--webpage`" option tells *HTMLDOC* that you want to convert a web page or other unstructured document.

The "`-f`" option tells *HTMLDOC* what file to generate. If you don't specify an output file then a PDF file is sent to the standard output.

Generating Books

To generate a book from one or more HTML files type:

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

where `output.html`, `output.pdf`, and `output.ps` are the names of the files you want to generate, and `file1.html` to `fileN.html` are the HTML files you want to use for the book.

The "`--book`" option tells *HTMLDOC* that you want to generate a book from the HTML file(s) you specified. *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 and other `META` information you supply in your HTML files.

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).

Chapter 5 – Using HTMLDOC on a Web Server

This chapter describes how to interface HTMLDOC to your web server using CGI 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 combine *HTMLDOC* with a CGI script or program and send the output to the HTTP client.

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.

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
#
#
# 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(filename);

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

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

C programs offer the best flexibility and easily support 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)      /* HTML file to convert */
{
    char  command[1024];                /* Command to execute */

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

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

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

/* topdf2() - pipe HTML output to HTMLDOC for conversion to PDF */
FILE *topdf2(void)
{
    puts("Content-Type: application/pdf\n");
    return (popen("htmldoc -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

```

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```
        filename;                // File to convert

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

***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	See Below
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	
FRAMESET	3.2	No	
H1	1.0	Yes	Boldface, See Below

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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	
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	See Below
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 four special HTML comments to initiate page breaks:

```
<!-- HALF PAGE -->
```

Break to the next half page.

```
<!-- PAGE BREAK -->
```

Break to the next page.

```
<!-- NEW PAGE -->
```

Break to the next page.

```
<!-- NEW SHEET -->
```

Break to the next sheet.

```
<!-- NEED length -->
```

Break if there is less than `length` units left on the current page. The `length` value defaults to points but can be suffixed by `in`, `mm`, or `cm` to convert from the corresponding units.

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
Helvetica	Helvetica
Monospace	Courier
Sans-Serif	Helvetica
Serif	Times
Symbol	Symbol
Times	Times

All other unrecognized typefaces are silently ignored.

Headings

Currently *HTMLDOC* supports a maximum of 10000 headings and 100 chapters. These limits can be increased by changing the constants 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 H6). Each chapter starts a new page or the next odd-numbered page if duplexing is selected.

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

Currently *HTMLDOC* supports a maximum of 20000 links within a document. This limit can be increased by changing the constant in the *config.h* file included with the source code.

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

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 supports HTML 3.0 tables with the following exceptions:

- The CAPTION element is always shown at the top of the table.

***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 7–10) 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.

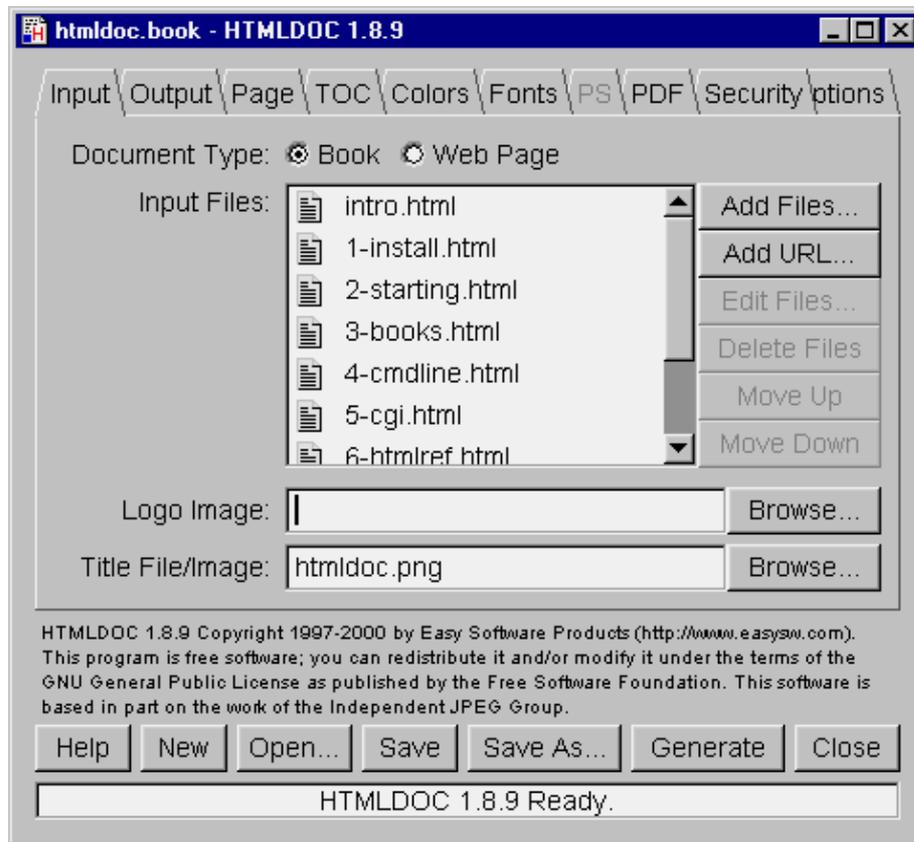


Figure 7-1 – The Input Tab

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 *Web Page* radio button specifies unstructured files.

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.

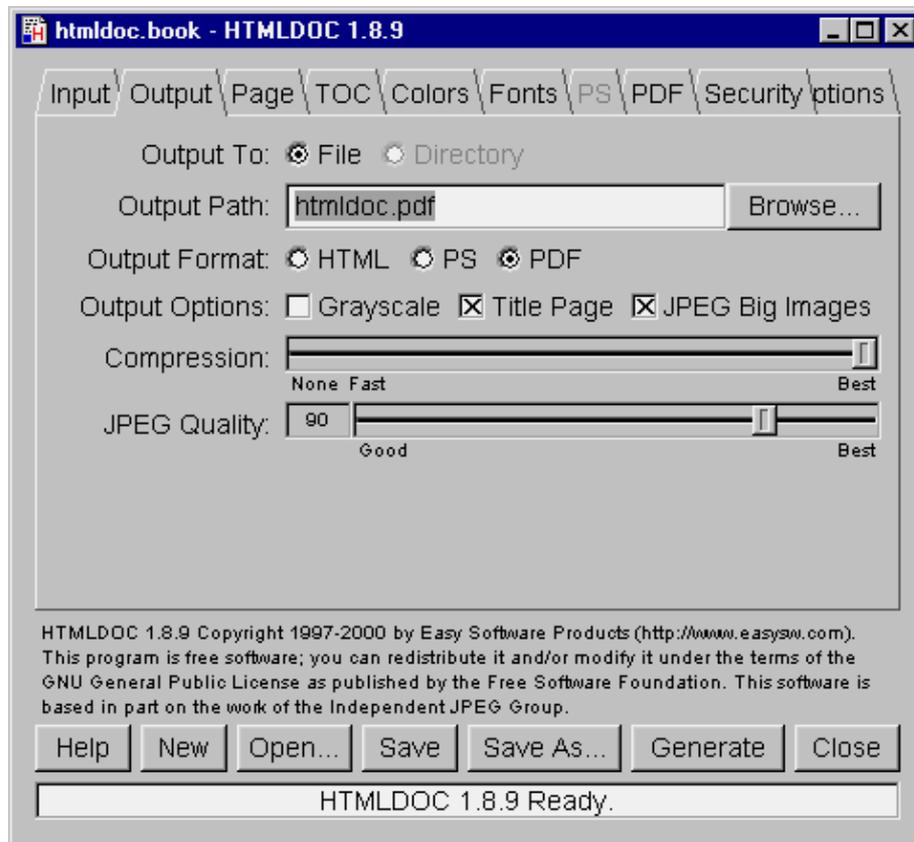


Figure 7–2 – The Output Tab

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 *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.

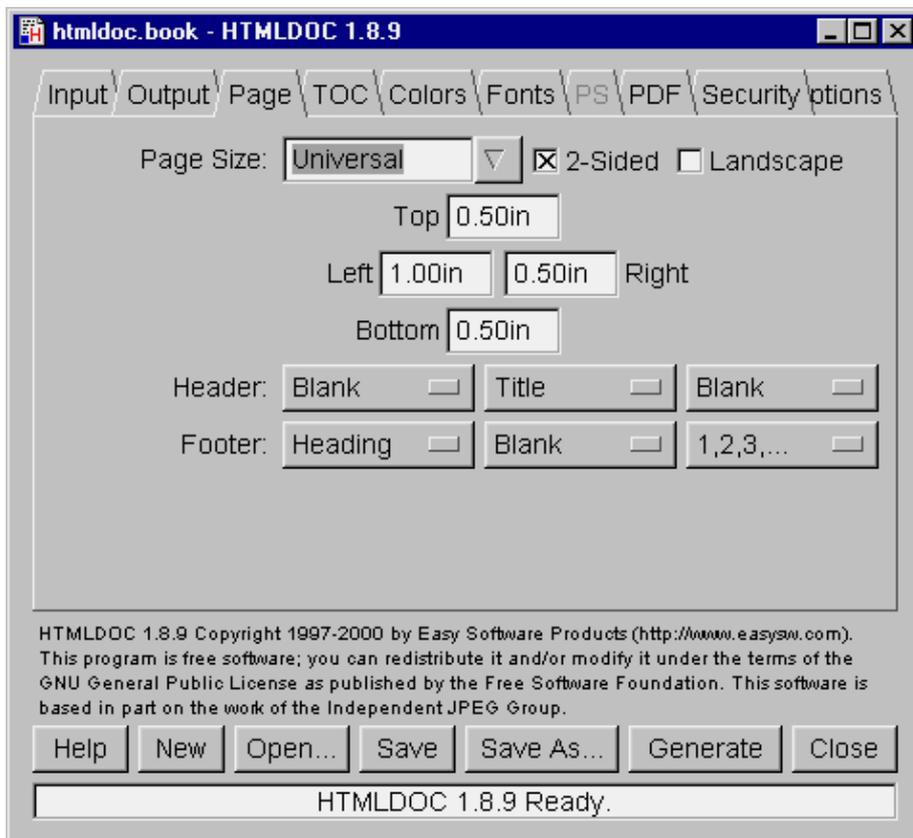


Figure 7-3 – The Page Tab

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.

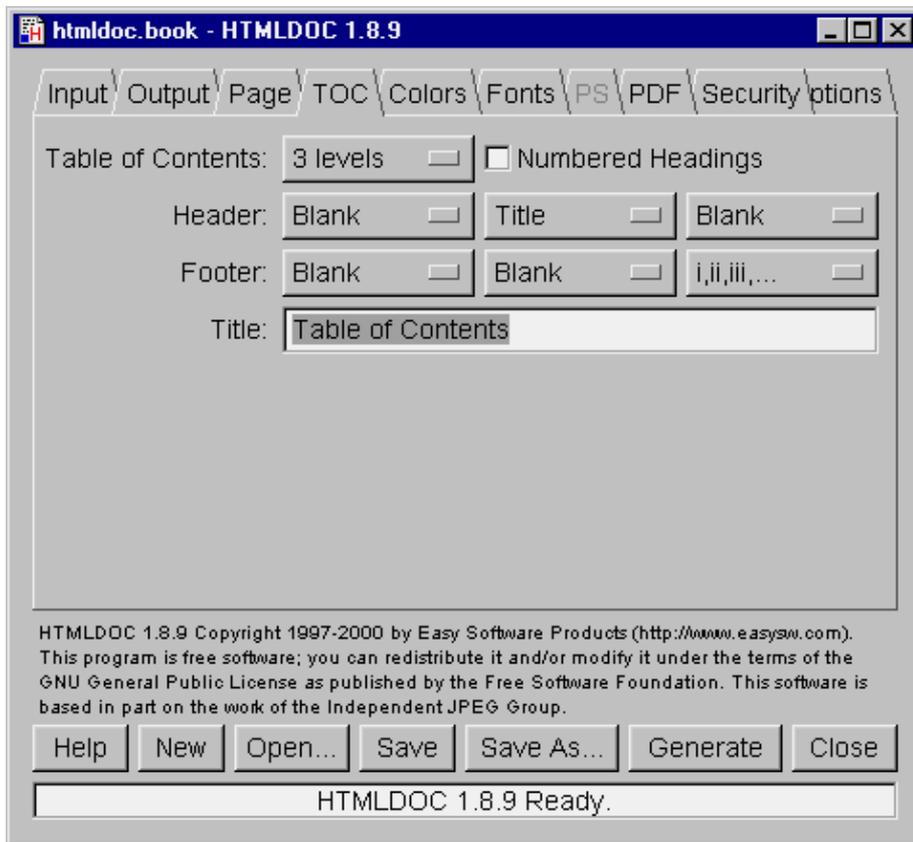


Figure 7-4 – The TOC Tab

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.

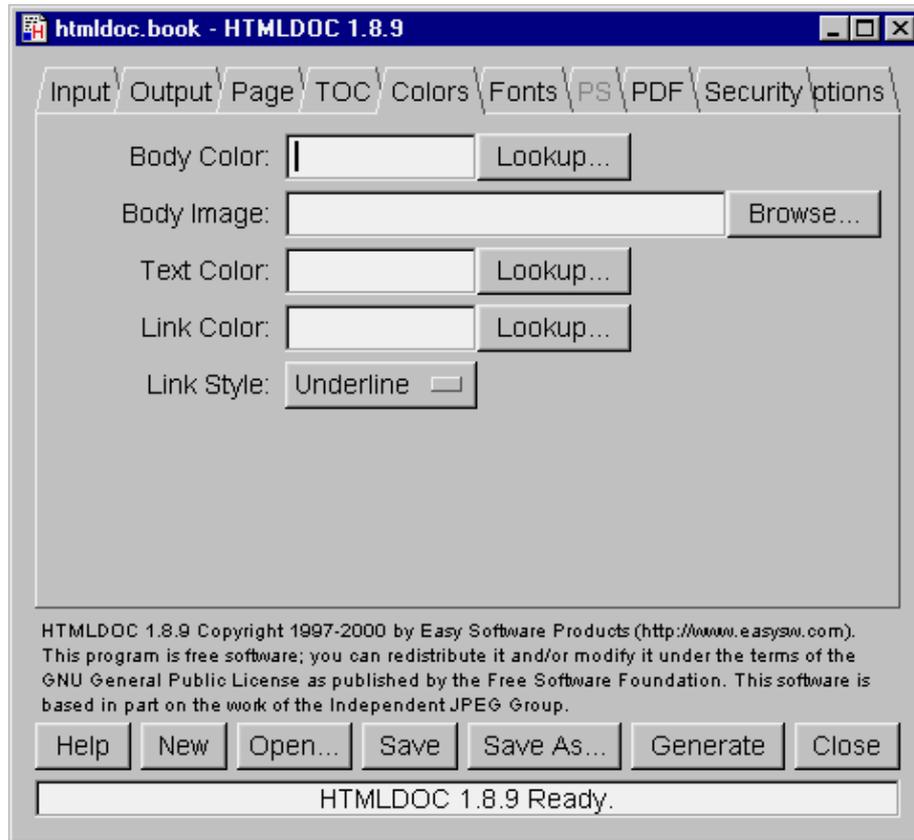


Figure 7-5 – The Colors Tab

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.

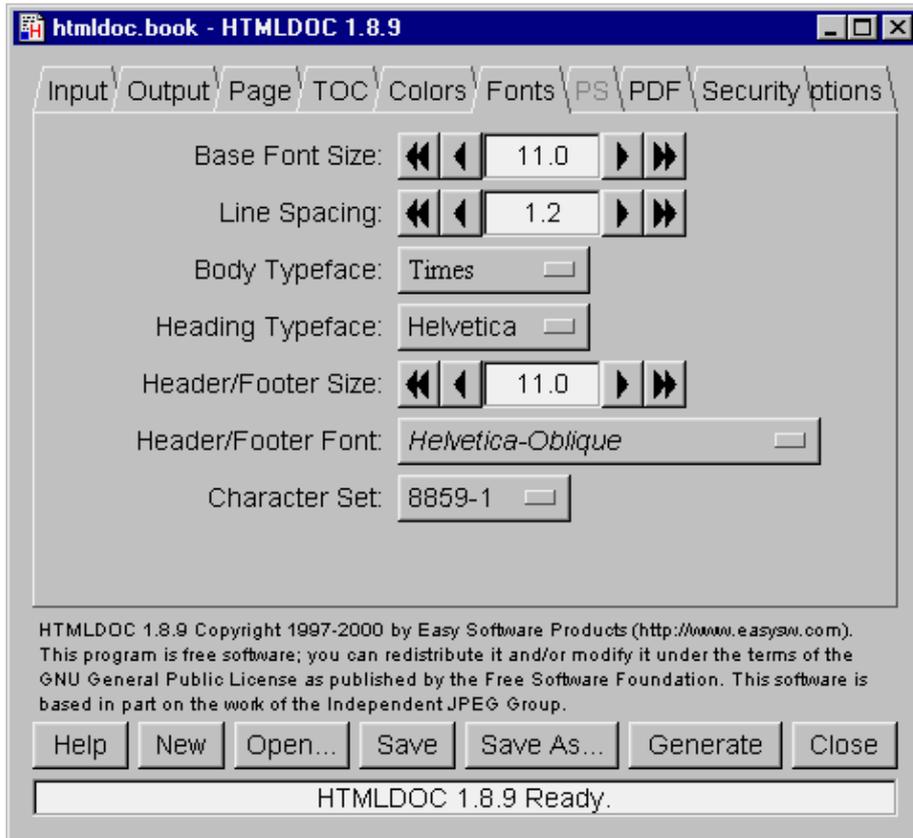


Figure 7-6 – The Fonts Tab

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.

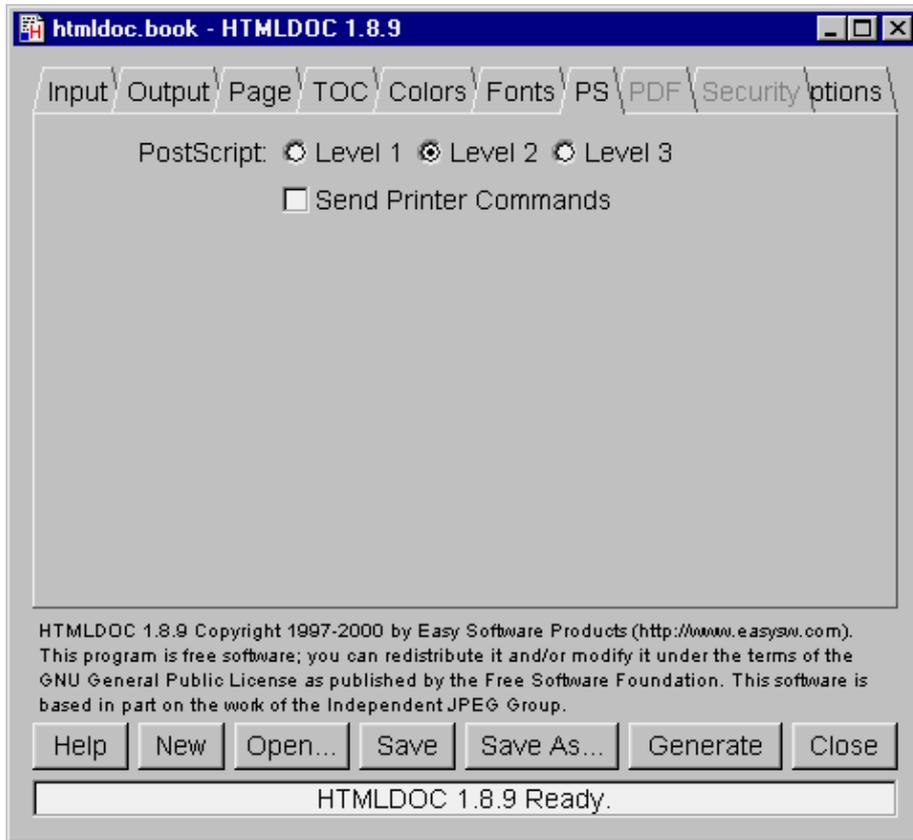


Figure 7-7 – The PS Tab

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.

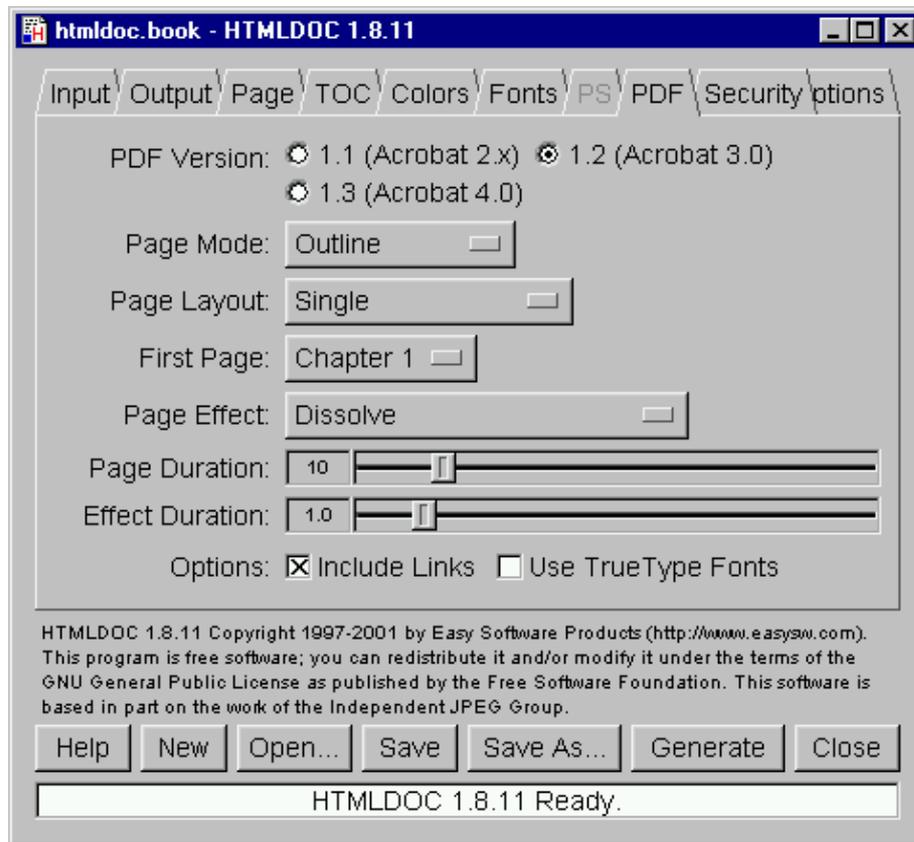


Figure 7–8 – The PDF Tab

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 1.2 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.

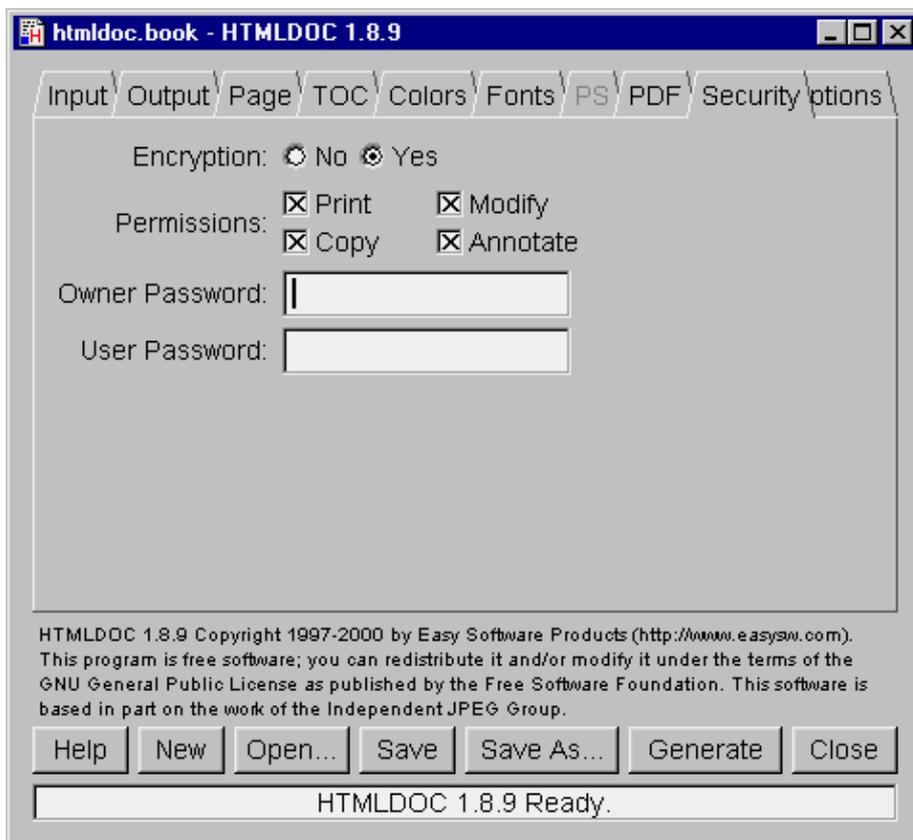


Figure 7-9 – The Security Tab

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 noone can change the document using the Adobe tools.

Options

The *Include Links* and *Use TrueType Fonts* check boxes control whether or not hyperlinks and TrueType fonts are included in PDF output.

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.

The *Use TrueType Fonts* option maps the normal Type1 fonts to TrueType fonts in the PDF file:

Type 1 Font	TrueType Font
Courier	Courier New
Times	Times New Roman
Helvetica	Arial
Symbol	Symbol

The primary purpose of this option is to allow the use of TrueType fonts that contain the full set of characters for a particular language. Most Type 1 fonts only contain the characters needed for ISO–8859–1.

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.

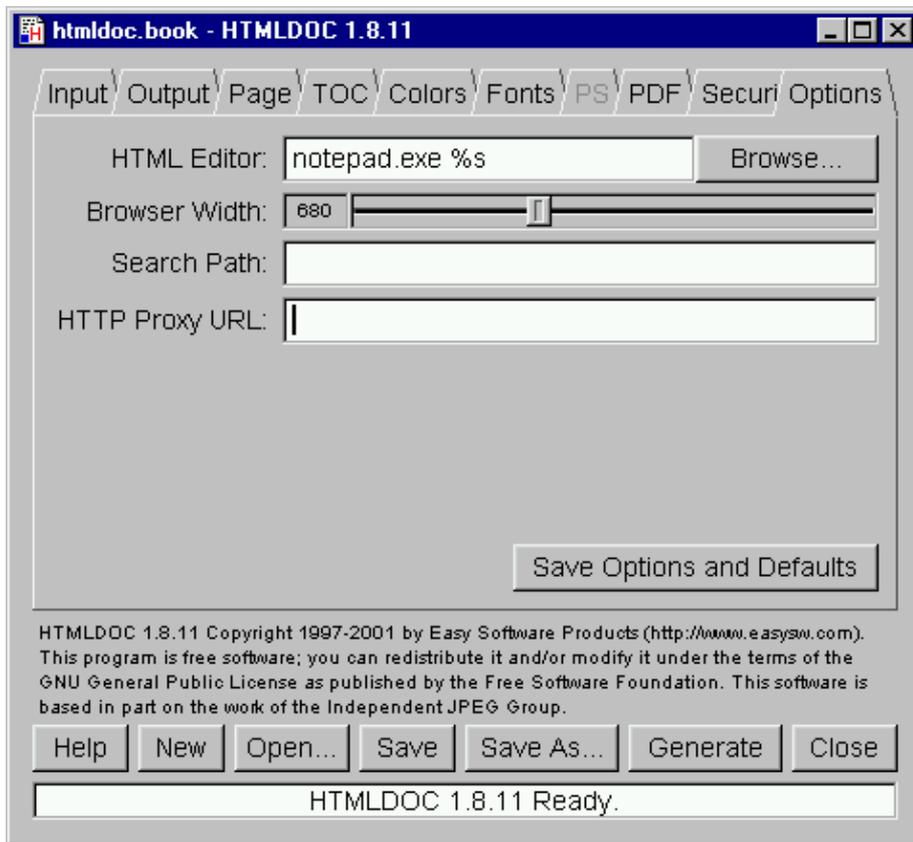


Figure 7–10 – The Options Tab

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.

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.

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*.

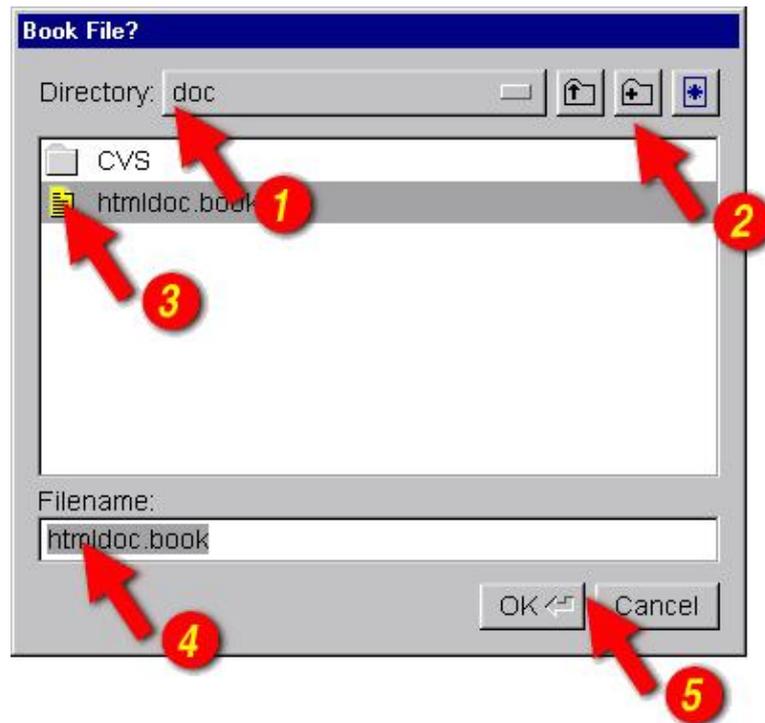


Figure 7–11 – The File Chooser

The File Chooser

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

Directory

The *Directory* option button (1) shows the current directory or folder that is displayed in the file list (3). Click on the option button to navigate to other directories or folders.

Directory Buttons

The directory buttons (2) allow you to go up one level in the directory hierarchy, create a new directory, and show all files in the directory, respectively.

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.

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.

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.
pdf	Generate a PDF file (default version).
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.
ps	Generate one or more PostScript files (default level).
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 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	Courier
Sans-Serif	Helvetica
Serif	Times
Symbol	Symbol
Times	Times

--bodyimage filename

The `--bodyimage` option specifies the background image for all pages in the document. The supported formats are 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.

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

--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
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 Level 3 PostScript or PDF files.

--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.

--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 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.
pdf	Generate a PDF file (default version).
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.
ps	Generate one or more PostScript files (default level).
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.

--headfontfont font

The `--headfontfont` 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
- Times
- Times–Roman
- Times–Bold
- Times–Italic
- Times–BoldItalic
- Helvetica
- Helvetica–Bold
- Helvetica–Oblique
- Helvetica–BoldOblique

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	Courier
Sans–Serif	Helvetica
Serif	Times
Symbol	Symbol
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 Level 2 and Level 3 PostScript or PDF 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 GIF, JPEG, and PNG.

--no-compression

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

--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-links

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

--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-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-truetype

The `--no-truetype` option specifies that TrueType fonts should not be used in PDF output.

--numbered

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

--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.

--permissions permission

The `--permissions` option specifies the document permissions. Multiple options can be specified as needed:

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

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.

--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.

--textcolor color

The `--textcolor` option specifies the default text color for all pages in the document. The color can be specified by 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	Courier
Sans-Serif	Helvetica
Serif	Times
Symbol	Symbol
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.

--truetype

The `--truetype` option specifies that TrueType fonts should be used in PDF output.

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

--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.

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

Appendix A – GNU General Public License

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