**Perl's Special Variables** 

Variable Name	Description
\$_	The default parameter for a lot of functions.
\$.	Holds the current record or line number of the file handle that was last read. It is read-only and will be reset to 0 when the file handle is closed.
\$/	Holds the input record separator. The record separator is usually the newline character. However, if \$/ is undefined, the Perl reads the entire file as one input file.
\$,	The output separator for the print() function. Normally, this variable is an empty string. However, setting \$, to a newline might be useful if you need to print each element in the parameter list on a separate line.
\$\	Added as an invisible last element to the parameters passed to the print() function. Normally, an empty string, but if you want to add a newline or some other suffix to everything that is printed, you can assign the suffix to \$\.
\$#	The default format for printed numbers.
\$%	Holds the current page number for the default file handle. If you use select() to change the default file handle, \$% will change to reflect the page number of the newly selected file handle.
\$=	Holds the current page length for the default file handle. Changing the default file handle will change \$= to reflect the page length of the new file handle.
\$-	Holds the number of lines left to print for the default file handle. Changing the default file handle will change \$ - to reflect the number of lines left to print for the new file handle.
\$~	Holds the name of the default line format for the default file handle. Normally, it is equal to the file handle's name.
\$^	Holds the name of the default heading format for the default file handle. Normally, it is equal to the file handle's name with _TOP appended to it.
\$	If nonzero, will flush the output buffer after every write() or print() function. Normally, it is set to 0.
\$\$	This UNIX-based variable holds the process number of the process running the Perl

	interpreter.
\$?	Holds the status of the last pipe close, back-quote string, or system() function. You can find more information about the \$? variable in Chapter 13, "Handling Exceptions and Signals."
\$&	Holds the string that was matched by the last successful pattern match.
\$`	Holds the string that preceded whatever was matched by the last successful pattern match.
\$'	Holds the string that followed whatever was matched by the last successful pattern match.
\$+	Holds the string matched by the last bracket in the last successful pattern match. For example, the statement /Fieldname: (.*)   Fldname: (.*) / && (\$fName = \$+); will find the name of a field even if you don't know which of the two possible spellings will be used.
<b>\$</b> *	Changes the interpretation of the $^$ and $$$ pattern anchors. Setting $$*$ to 1 is the same as using the $/m$ option with the regular expression matching and substitution operators. Normally, $$*$ is equal to 0.
\$0	Holds the name of the file containing the Perl script being executed.
<pre>\$<number></number></pre>	This group of variables (\$1, \$2, \$3, and so on) holds the regular expression pattern memory. Each set of parentheses in a pattern stores the string that match the components surrounded by the parentheses into one of the \$ <number> variables.</number>
\$[	Holds the base array index. Normally, it's set to 0. Most Perl authors recommend against changing it without a very good reason.
\$]	Holds a string that identifies which version of Perl you are using. When used in a numeric context, it will be equal to the version number plus the patch level divided by 1000.
\$"	This is the separator used between list elements when an array variable is interpolated into a double-quoted string. Normally, its value is a space character.
\$;	Holds the subscript separator for multi-dimensional array emulation. Its use is beyond the scope of this book.
\$!	When used in a numeric context, holds the current value of errno. If used in a string context, will hold the error string associated with errno. For more information about errno

\$@	Holds the syntax error message, if any, from the last eval() function call. For more information about erro
\$<	This UNIX-based variable holds the real uid of the current process.
\$>	This UNIX-based variable holds the effective uid of the current process.
\$)	This UNIX-based variable holds the real gid of the current process. If the process belongs to multiple groups, then \$) will hold a string consisting of the group names separated by spaces.
\$:	Holds a string that consists of the characters that can be used to end a word when word-wrapping is performed by the ^ report formatting character. Normally, the string consists of the space, newline, and dash characters.
\$^D	Holds the current value of the debugging flags
\$^F	Holds the value of the maximum system file description. Normally, it's set to 2. The use of this variable is beyond the scope of this book.
\$^I	Holds the file extension used to create a backup file for the in-place editing specified by the -i command line option. For example, it could be equal to ".bak."
\$^L	Holds the string used to eject a page for report printing. Chapter 11, "Creating Reports," shows how to use this variable to create simple footers.
\$^P	This variable is an internal flag that the debugger clears so it will not debug itself.
\$^T	Holds the time, in seconds, at which the script begins running.
\$^W	Holds the current value of the -w command line option.
\$^X	Holds the full path name of the Perl interpreter being used to run the current script.
\$ARGV	Holds the name of the current file being read when using the diamond operator (<>).
@ARGV	This array variable holds a list of the command line arguments. You can use \$#ARGV to determine the number of arguments minus one.
@F	This array variable holds the list returned from autosplit mode. Autosplit mode is associated with the -a command line option.
@INC	This array variable holds a list of directories where Perl can look for scripts to

	execute. The list is mainly used by the require statement. You can find more information about require statements in
%INC	This hash variable has entries for each filename included by do or require statements. The key of the hash entries are the filenames, and the values are the paths where the files were found.
%ENV	This hash variable contains entries for your current environment variables. Changing or adding an entry affects only the current process or a child process, never the parent process. See the section "Example: Using the %ENV Variable" later in this chapter.
%SIG	This hash variable contains entries for signal handlers. For more information about signal handlers, see
_	This file handle (the underscore) can be used when testing files. If used, the information about the last file tested will be used to evaluate the new test.
DATA	This file handle refers to any data followingEND
STDERR	This file handle is used to send output to the standard error file. Normally, this is connected to the display, but it can be redirected if needed.
STDIN	This file handle is used to read input from the standard input file. Normally, this is connected to the keyboard, but it can be changed.
STDOUT	This file handle is used to send output to the standard output file. Normally, this is the display, but it can be changed.

Variable Name	Description
Variables Th	at Affect Arrays
\$"	The separator used between list elements when an array variable is interpolated into a double-quoted string. Normally, its value is a space character.
\$[	Holds the base array index. Normally, set to 0. Most Perl authors recommend against changing it without a very good reason.
\$;	Holds the subscript separator for multi-dimensional array emulation. Its use is beyond the scope of this book. For a more in-depth look at Perl programming, see Que's Special Edition Using Perl for Web Programming.
Variables Us	ed with Files
\$.	This variable holds the current record or line number of the file handle last read. It is read-only and will be reset to 0 when the file handle is closed.
\$/	This variable holds the input record separator. The record separator is usually the newline character. However, if \$/ is set to an empty string, two or more newlines in the input file will be treated as one.
\$	This variable, if nonzero, will flush the output buffer after every write() or print() function. Normally, it is set to 0.
\$^F	This variable holds the value of the maximum system file description. Normally, it's set to 2. The use of this variable is beyond the scope of this book.
\$ARGV	This variable holds the name of the current file being read when using the diamond operator (<>).
_	This file handle (the underscore) can be used when testing files. If used, the information about the last file tested will be used to evaluate the latest test.
DATA	This file handle refers to any data followingEND
STDERR	This file handle is used to send output to the standard error file. Normally, this is connected to the display, but it can be redirected if needed.
STDIN	This file handle is used to read input from the standard input file. Normally, this is connected to the keyboard, but it can be changed.
STD0UT	This file handle is used to send output to the standard output file. Normally, this is

	the display, but it can be changed.
Variables Used with Patterns (See Chapter 10, "Regular Expressions")	
\$&	This variable holds the string that was matched by the last successful pattern match.
\$`	This variable holds the string that preceded whatever was matched by the last successful pattern match.
\$'	This variable holds the string that followed whatever was matched by the last successful pattern match.
\$+	This variable holds the string matched by the last bracket in the last successful pattern match. For example, the statement /Fieldname: (.*)   Fldname: (.*) / && (\$fName = \$+); will find the name of a field even if you don't know which of the two possible spellings will be used.
<b>\$</b> *	This variable changes the interpretation of the ^ and \$ pattern anchors. Setting \$* to 1 is the same as using the /m option with the regular expression matching and substitution operators. Normally, \$* is equal to 0.
<pre>\$<number></number></pre>	This group of variables (\$1, \$2, \$3, and so on) holds the regular expression pattern memory. Each set of parentheses in a pattern stores the string that matches the components surrounded by the parentheses into one of the \$ <number> variables.</number>
Variables Used	d with Printing
\$,	This variable is the output separator for the print() function. Normally, this variable is an empty string. However, setting \$, to a newline might be useful if you need to print each element in the parameter list on a separate line.
\$\	The variable is added as an invisible last element to the parameter list passed to the print() function. Normally, it's an empty string, but if you want to add a newline or some other suffix to everything that is printed, you can assign the suffix to \$\.
\$#	This variable is the default format for printed numbers. Normally, it's set to %.20g, but you can use the format specifiers covered in by the section "Example: Printing Revisited" in Chapter 9 to specify your own default format.
Variables Used with Processes (See Chapter 13, "Handing Exceptions and Signals")	
\$\$	This UNIX-based variable holds the process number of the process running the Perl interpreter.

\$?	This variable holds the status of the last pipe close, back-quote string, or <code>system()</code> function. More information about the \$? variable can be found in Chapter 13, "Handling Exceptions and Signals."	
\$0	This variable holds the name of the file containing the Perl script being executed.	
\$]	This variable holds a string that identifies which version of Perl you are using. When used in a numeric context, it will be equal to the version number plus the patch level divided by 1000.	
\$!	This variable, when used in a numeric context, holds the current value of erro. If used in a string context, it will hold the error string associated with erro. For more information about erro, see Chapter 13, "Handling Exceptions and Signals."	
\$@	This variable holds the syntax error message, if any, from the last eval() function call. For more information about erro, see Chapter 13, "Handling Exceptions and Signals."	
\$<	This UNIX-based variable holds the read uid of the current process.	
\$>	This UNIX-based variable holds the effective uid of the current process.	
\$)	This UNIX-based variable holds the read gid of the current process. If the process belongs to multiple groups, then \$) will hold a string consisting of the group names separated by spaces.	
\$^T	This variable holds the time, in seconds, at which the script begins running.	
\$^X	This variable holds the full path name of the Perl interpreter being used to run the current script.	
%ENV	This hash variable contains entries for your current environment variables. Changing or adding an entry will affect only the current process or a child process, never the parent process. See the section "Example: Using the %ENV Variable" later in this chapter.	
%SIG	This hash variable contains entries for signal handlers. For more information about signal handlers, see Chapter 13, "Handling Exceptions and Signals."	
Variables Used	Variables Used with Reports (see Chapter 11, "Creating Reports")	
\$%	This variable holds the current page number for the default file handle. If you use Select() to change the default file handle, \$% will change to reflect the page number of the newly selected file handle.	

\$=	This variable holds the current page length for the default file handle. Changing the default file handle will change \$= to reflect the page length of the new file handle.	
\$-	This variable holds the number of lines left to print for the default file handle. Changing the default file handle will change \$- to reflect the number of lines left to print for the new file handle.	
\$~	This variable holds the name of the default line format for the default file handle. Normally, it is equal to the file handle's name.	
\$^	This variable holds the name of the default heading format for the default file handle. Normally, it is equal to the file handle's name with _TOP appended to it.	
\$:	This variable holds a string that consists of the characters that can be used to end a word when word-wrapping is performed by the ^ report formatting character. Normally, the string consists of the space, newline, and dash characters.	
\$^L	This variable holds the string used to eject a page for report printing. Chapter 11, "Creating Reports," shows how to use this variable to create simple footers.	
Miscellaneous	Miscellaneous Variables	
\$_	This variable is used as the default parameter for a lot of functions.	
\$^D	This variable holds the current value of the debugging flags. For more information, see Chapter 16, "Debugging Perl."	
\$^I	This variable holds the file extension used to create a backup file for the in-place editing specified by the $-\dot{\textbf{i}}$ command line option. For example, it could be equal to ".bak."	
\$^P	This variable is an internal flag that the debugger clears so that it will not debug itself.	
\$^W	This variable holds the current value of the -w command line option.	
@ARGV	This array variable holds a list of the command line arguments. You can use \$#ARGV to determine the number of arguments minus one.	
@F	This array variable holds the list returned from autosplit mode. Autosplit mode is associated with the -a command line option.	
@INC	This array variable holds a list of directories where Perl can look for scripts to execute. The list is used mainly by the require statement. You can find more information about require statements in Chapter 15, "Perl Modules."	

%INC

This hash variable has entries for each filename included by do or require statements. The key of the hash entries are the filenames and the values are the paths where the files were found.