User's Guide

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PrintShop Mail Professional Mailing Software for Apple Macintosh [®] PrintShop Mail is a software product of:



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Introduction

What is **PrintShop Mail?**

PrintShop Mail is an easy to use, stand-alone authoring tool for variable data printing. Variable printing is the unique capability of true digital color presses to vary each impression during the printing process.

PrintShop Mail runs on Power Macintosh[™] and is designed for producing variable data jobs to be printed using any modern printer. Specific printing technologies are supported, to allow reaching maximum printing speed. Basically, PrintShop Mail uses the technique (that is part of the PostScript printer language) of separating the fixed portion of a document (which is sent to the printer and rasterized only once) from the variable page elements. The variable and the fixed data or masterpages are merged when printing personalized copies of the document.

PrintShop Mail allows you to create and print all different kinds of variable data printing applications varying from simple mail mergers to complex personalized documents. It is possible to vary any kind of data: colored text, graphics and even images starting from a database and any standard desktop prepress application. Powerful text and graphic formatting, intuitive database linking features or conditional formatting tools are at the designer's disposal to generate professional variable data printing jobs. These jobs can be saved and archived in the PrintShop Mail native format.

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PrintShop Mail Workflow



- 1 Create the document layout in your favorite page editor. Include only the static parts of the document and save these as images in one of the supported image formats.
- 2 Images to be used in the mailing. These should be stored in the same directory and in one of the supported image formats.
- 3 Database with address data for the mailing. You may use an existing database or create one for the mailing.
- 4 Create a PrintShop Mail document and place the static images. Add text objects for the inclusion of variable text, such as the address and the opening line.
- 5 Create a picture object and define which images should be printed on each personalized copy of the mailing.
- 6 Print the mailing. The static part of the document layout is sent to the RIP once, followed by the variable data for each of the copies that were selected for printing.
- 7 The RIP creates the pages (the exact process depends on the printing technology that is used) and sends them to the printer. The RIP may be a physical part of the printer or run on a separate computer.
- 8 The result: personalized letters with some static text and optional static images, plus a variable texts and images, which depend on the contents of the database that was used for the mailing.

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About this Manual

This User's Guide is intended for professionals involved in preparing and printing variable data jobs, such as mailings, personalized or serialized document copies, address labels, business cards etc. PrintShop Mail requires basic knowledge of the Macintosh[™] Operating System.

Icons in This User's Guide

The "Attention" icon draws attention to important information, i.e. hints and tips, directly related to using PrintShop Mail.

If You Have Questions...

Should you have questions using PrintShop Mail, first check this User's Guide. The index at the back may be helpful when looking for specific information.

If you need further assistance, contact our Customer Service department (via e-mail: support@atlassoftware.com) or your local distributor. Make sure you have all relevant information at hand when doing so.

Installing PrintShop Mail

Contents of the PrintShop Mail CD-ROM

PrintShop Mail is shipped on one CD-ROM containing:

- The PrintShop Mail Installer Program containing:
 - Macintosh[™] version of PrintShop Mail
 - LaserWriter 8.6.5 Printer Driver
 - PSMail plug-in for Adobe Acrobat
 - USB driver for use with the HASP dongle
- PrintShop Mail demo jobs
- PDF version of the User's Guide

System Requirements

The minimum requirements to run PrintShop Mail are as follows:

- PowerPC Macintosh[™] with at least 64 MB of RAM
- Operating System 8.6.5 or higher PSM has been tested on OS 9.2.2
- QuickTime 4.0 or higher

Requirements depending on optional software:

- Adobe Acrobat: version 4.0 or higher and 50 mb free space
- Mac OS X: a HASP USB dongle is needed. See "Using PrintShop Mail with Mac OS X" on page 16.

Installing PrintShop Mail

File Locations

The table below indicates which files will be installed, and where:

Files	Location
PrintShop Mail	Selected folder
Examples	Examples folder inside the selected PrintShop Mail folder
LaserWriter printer driver	System folder, Extensions
ADB and USB dongle drivers	System folder, Extensions
PSMail plug-in for Adobe	PrintShop Mail folder

The Installation Procedure

The installation procedure consist of several steps, as indicated below:

Procedure	See
Installing PrintShop Mail	page 11
Configuring the LaserWriter Driver	page 13
Connecting the Hardware Key to Your Macintosh*	page 15
Using PrintShop Mail with Mac OS X	page 16
Enabling support for Adobe Acrobat	page 19

(*) The hardware key (or dongle) comes with the PrintShop Mail license. If you have not purchased a license yet, you can still install the software and use all of its functions. The restriction in this demo version is, that you can print only 25 personalized copies of a document, which will have the word PrintShop Mail printed over them. See "Credits" on page 18 for details.

Installing PrintShop Mail

- 1 Put the PrintShop Mail CD-ROM in the CD-ROM drive. Doubleclick on "Click Me" icon that appears on your desktop.
- 2 Click on the installer.
- 3 Click "Continue". The installation screen appears.

Easy	Install				
Print	Shop Mail	Applicati	on		
Lase	rwriter dr	iver			
Print	Shop Mail	Example			
Mac	Installe Pri	er Mail	4 7 and an a	vame la	
	liistaiis Fri	intonop man	4.5 anu an e.	xampie.	
Installa	tion requires	: 11748K			
				6	

The Installation window displays a list of items that can be installed:

Option	Installs:
Easy Install	PrintShop Mail for PowerPC Macintosh™, plus an example job
PrintShop Mail application	PrintShop Mail application only
Laserwriter driver	A laserwriter driver which can be used by PrintShop Mail
PrintShop Mail Example	Example documents, with databases and images
Mac Link Enabler	Enables importing text files
USB driver	Driver to use USB dongles

Installing PrintShop Mail

4 Select "Easy Install" to install PrintShop Mail for PowerPC Macintosh[™] and click "Install". The following window pops up:

Applications 🗢	👝 Harddisk
💐 Acrobat 5.0	Eject
💐 Address Book. app	
💐 AppleScript	Desktop
💐 Atlas	New 🕅
💐 Calculator.app	
Install software into folder:	Cancel
PrintShop Mail 4.3 US folder	Install

5 Select the folder in which you want to create the PrintShop Mail folder and click "Install". The PrintShop Mail folder is created and the necessary files are copied. The following window pops up:

e	Installation was successful. Choose Quit if you are finished or Continue to perform further installations.
	Continue) Quit

- 6 Click "Quit" to finish the installation process.
- 7 Double-click the PrintShop Mail icon in the PrintShop Mail folder to start PrintShop Mail



Configuring the LaserWriter Driver

- 1 Open the Chooser from the Apple menu.
- 2 Select the "LaserWriter...PSMail" driver in the left part of the Chooser.
- 3 Select the PostScript Printer of your choice in the right part of the Chooser.



4 Click the "Setup" button. The following window pops up:

Current Printer Description File (PPD) Selecto "LaserWriter 16/600 PS"	ed:
Auto Setup Select PPD	Help
Printer Info Configure	Cancel
	ОК

Installing PrintShop Mail

5 Click "Select PPD". The following window pops up:



- 6 Select a PPD for your printer from the PPD list and click "Select".
- 7 Click "OK" to return to the Chooser.

Connecting the Hardware Key to Your Macintosh

If you need printing capabilities while using PrintShop Mail, make sure the hardware key or dongle is connected to your keyboard, or on your mac

To verify whether the hardware key has been installed correctly, select "About PrintShop Mail" from the Apple menu. The software version number and the number of available credits is displayed in the first few lines of the copyright notice.

Using PrintShop Mail with Mac OS X

PrintShop Mail runs in Classic mode when installed on Mac OS X. Apart from the software, you need to install a different dongle driver when working with Mac OS X. Make sure you have the HASP dongle. Follow these steps to install the driver:

1 Start the "aksusb" installer, which is available in the Installers folder on the PSMail CD. The program shows the following dialog:

	Authenticate
You need a or phrase	an administrator name and password to make changes in aksusb Installer.
Name:	root
Password or phrase:	
	압caps lock on Cancel OK

2 You must enter the username "root" and supply the correct password; otherwise, the installation cannot be done. If you do not have the root password, contact your system administrator.

3 The installer displays the following window:

000	aksusb Installer	
Install	+	
Installs the HASP4 U (USB daemon 1.4.0)	SB support	
– Install Location –		Quit
Items will be ins	talled on the disk "Development"	Install

- 4 The drivers are installed within a couple of seconds; there is no need to restart the Mac.
- 5 You can start using PrintShop Mail and the program will automatically recognize the dongle. You can check this by viewing the credits.

Credits

The number of credits is the number of document copies, i.e. combinations of one database record with one personalized document, that you can print.

credits	implies
Designer mode	Your Macintosh [™] did not detect the PrintShop Mail hardware key. You can work in Designer mode and print 25 document copies (with PrintShop Mail printed over them).
xxxxx records	You have xxxxx records available.
unlimited	You have unlimited printing capabilities.



If you print more than one document on a page (e.g. when printing address labels), each document is counted as one personalized copy. So, printing 25 address labels which fit on one printed page will cost 25 credits. On the other hand, if you have a document with 5 pages and you print 25 personalized copies of that document, you will have 125 printed pages, but this will cost only 25 credits.

For information on how to upgrade the number of credits, contact Atlas Software or your local distributor.

You can find your available credits by choosing the 'Credit Information' item in the 'Help'-menu. If the hardware key is missing, the 'Credit Information' screen will display the message "Key type: Not Valid" and "License: 25 (Demo Mode).

Enabling support for Adobe Acrobat

PrintShop Mail allows using PDF files as the basis for personalized documents. To enable this option, you need to have Adobe Acrobat version 4 or higher installed. To place a PDF file into PrintShop Maill go to File - Place PDF. When placing a PDF in a PrintShop Mail document, Adobe Acrobat is started in the background, to interpret the PDF and make the resulting image available to PrintShop Mail.



When Adobe Acrobat starts up, a registration dialog may be shown. This should be avoided when the program is started by PrintShop Mail, as it will lead to problems in PrintShop Mail. After installing Adobe Acrobat, you should either register the program or tell the program to not show the registration dialog again.

PrintShop Mail uses an Adobe Acrobat plug-in to start the program when required. When placing a PDF for the first time, PrintShop Mail asks you to locate the Adobe Acrobat program you would like to use. This information is stored in the PrintShop Mail preferences and does not need to be entered again.

It is possible to place multiple PDF files into one PrintShop Mail document.



Note that you cannot use encrypted, password-protected or print-disabled PDF documents with PrintShop Mail.

Installing PrintShop Mail



The PrintShop Mail User Interface

This chapter gives an overview of the PrintShop Mail user interface and explains the contents of the various windows.

The General Toolbar

The general toolbar is placed in vertical position to the left of the document window. This toolbar is always visible, even when no document is opened. The table below displays the buttons on the general toolbar and their function:

Button	Function
×	Make a selection.
I	Place the insertion cursor to enter text.
٩	Zoom in (or out when pressing the Option key).
1	Sample colors from objects.
٩	Fill an object with a color.
A	Draw a text box.
\square	Draw a picture box.

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The Document Window

Only one PrintShop Mail document can be opened at a time. The first page of the document is shown in the document window. You can use the commands in the Page menu to insert, delete or move pages and to view another page.

The document window contains vertical and horizontal rulers, a document toolbar, horizontal and vertical scroll bars, zoom and page controls and a view of the current page of the document:



Rulers

The horizontal and vertical rulers can be shown or hidden using the "Show/Hide Layout Rulers" command in the "Windows" menu. The measurement unit can be set in the Preferences. This unit will be used throughout the PrintShop Mail program.

The rulers are also used to place guides and folding lines on the document. See "Displaying Guides on Your Document" on page 69 and "Adding a Folding Line" on page 128.

Zoom and page controls

The bottom left part of the document window contains a menu to set the zoom factor, and buttons to move to the next or previous page of the current document:



Click on the zoom factor to open a menu with available view sizes, given in percentages of the original page size. When you select "Window Size", the entire page will be shown in the document window and the zoom factor is adapted accordingly.

Moving to another page of the document is done by clicking on the arrows next to the zoom factor, or by using the Document Layout Window described further below.

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The Document Toolbar

The document toolbar is shown in the document window, immediately below the horizontal ruler. The table below displays the symbols on the document toolbar and their function:

Symbol	Description
<u></u>	Section for the fill color and pattern settings.
4	Section for the border settings.
A	Section for the text settings.
Ф	Make object transparent.
×	Select color for text, borders or fill color.
	Select line thickness.
E	Align text left.
Ξ	Center text.
Ξ	Align text right.

The Database and Variables Windows

Both windows are essential while you use PrintShop Mail. You will need them to link PrintShop Mail variables to database fields. See "Linking Database Fields to Variables" on page 101.

The Variables Window

Select "Show Variables" from the "Windows" menu to display the Variables window. The variables window also contains a section for "Layout Conditions" See page 131 for more details.



linked to PrintShop Mail variables

The Database Window

Select "Show Database" from the "Windows" menu to display the Database window.



The PrintShop Mail User Interface

Other PrintShop Mail Windows

Apart from the Database and Variables windows described on the previous page, you can choose other windows from the Windows menu. A short description of their usage is given here:

The Fonts Window

This displays a list of the fonts used in the currently opened PrintShop Mail document.

The Document Layout Window

This lists the pages in the current document and enables you to jump to another page by clicking on it in the list. Also, page properties can be set which determine the paper tray that is used when printing. The Document window also contains buttons to add or delete pages. See "Using the Document Layout Window" on page 59 for details.

The Coordinates Window

This window displays the coordinates of the selected page element (an imported image or a Variable field) and allows precise positioning and dimensioning of that page element by entering the coordinates and sizes in the text boxes.

Getting Started with PrintShop Mail

Tutorial: Creating the CatMetics Mailing

This chapter is meant for users who are not yet familiar with PrintShop Mail. The step-by-step procedures described in this chapter will show you how to use the main functions of the program.



The demo job used in this tutorial is one of the examples available on the CD, so you can follow the steps explained here in PrintShop Mail.

The tasks covered in this tutorial are:

Торіс	See
Create a New PrintShop Mail Document	page 28
Import Static Elements into your Document	page 29
Open a Database for your Document	page 30
Create a Text Object for Variable Data	page 32
Linking Database Fields to Variables	page 36
Creating a Picture Object for Variable Graphics	page 41
Formatting of Text Objects	page 45
Printing the Mailing	page 47
Creating Address Labels for the Mailing	page 48

Create a New PrintShop Mail Document

- 1 Double-click the PrintShop Mail icon to start the program.
- 2 Select "New" from the "File" menu. The following window pops up:



- 3 Adjust the settings, if necessary. If you select "Other" as paper size, a new window pops up in which you can specify a custom size. You can use either periods (.) or colons (,) as the thousandsseparator. In the Apple menu under "Control Panel - Numbers" you can change the settings. Use the settings above for the tutorial job.
- 4 Click "OK". A new PrintShop Mail document is opened.
- 5 Select "Save As" from the "File" menu to save the document. The following window pops up:



6 Enter a file name for the tutorial job and click "Save".

Import Static Elements into your Document

1 Select "Place Image" from the "File" menu:

🕅 CatMetics 🖨	👝 Harddisk
🞇 Bob.sign.EPS 📃 🔺	Eject
📰 CatData2.tab	
🗋 CatLabel.eps 📃	Desktop
🛐 CatLogo.pict	
CatMetics.eps	Cancel
🗟 domestic.eps	
📲 Jenny.photo.EPS 📃 👻	Open

2 Select the EPS file "CatMetics.eps" and Click "Open". Note that you can also use PDF files. To place a PDF file, use the command "Place PDF" from the "File" menu (see page 62). After selecting the example image, your document window should like this:



Getting Started with PrintShop Mail

3 You can move the imported image to the desired location, and resize it if necessary by dragging the markers on its sides.

Open a Database for your Document

Textfile or DBF file

The variable texts and images that are printed in each copy of the personalized document are determined by their calculation expression. This links the variable text or image to fields in a database, which can be either a textfile or a file in native database format (DBF).

Linking a Textfile to your Document

Select "Convert Text File..." from the "Database" menu to convert a text file (e.g. "Catdata.tab") to a dbf file (which will be saved as "Catdata.tab.dbf"). The following window pops up:

🕲 CatMetics 🗢	👝 Harddisk	
📰 CatData.tab	Eject	
	Desktop	
	Cancel	
	- Open	
Select Text File	Options	

- 2 Click the "Options..." button. In the dialog that pops up, you can indicate the field separator (tab, comma, space, emicolon, or user-specified) that is used in the textfile.
- 3 If you are using a database which was created on a DOS computer, you may need to select a DOS conversion table. See "Using a Text File as Database" on page 99 for details.

4 Select "Catdata.tab" and click "Open". The Database window is opened and shows a list of available fields in the converted database, with the values of those fields for the currently selected record.



Linking a DBF file to your Document

If you have a database available in DBF format, you can open this database instead of converting a text file. Note that you can only have one database open at a time. You will have to close the current database before opening another one.

1 Select "Open DBF-File" from the "Database" menu:

🕲 CatMetics 🖨		👝 Harddisk
🛐 CatData.DBF		Eject
		Desktop
		Cancel
	*	Open

2 Select the database file "Catdata.DBF" and click "Open". The Database window is opened and shows a list of available fields in the database, with the values of those fields for the currently selected record.



Create a Text Object for Variable Data

There are different ways of entering variable text data into a PrintShop Mail document. These are described separately below. Each of the described methods is used at least once in the tutorial job.

Draw a Text Object and Drag Fields into it

- 1 Click A on the toolbar. See "The General Toolbar" on page 21 for detailed information about the toolbar.
- 2 Draw a text object where you wish to include the addressee's name and address at the top of the letter, as shown below.

			trial 1.psm 📃 🛛	3
	_ ()	<mark>] </mark> 🔁		٦
) 	20		4
ľ				•
				-
2 =		r		
4				ł
<u>ó</u> -e				
				ł
6 3				
H				
				ł
8 - 0 -				ł
				ł
11			Dear Sir / Madam,	ł
鬥			While humans have been using cosmetics for many centuries, our most loyal	
11			everyday companions have always been denied the right to look as good as they can. This has changed now with our new product line of net cosmetics, for which	
1 -			you will find a catalogue enclosed with this letter. Also, we have enclosed a sam-	
H			ple of Wash-and-Purr, our everyday shampoo developed specially for Siamese	
E				

To help you in positioning and sizing the text object, you can use guides. See "Displaying Guides on Your Document" on page 69 for details.

- 3 Click on the field "First_name" in the "Database" window and drag it into the text object. The fieldname will appear in the text object, enclosed in @ signs and in the Variables window.
- 4 Select I from the toolbar and click in the text object, behind the @First_Name@ variable. Enter a space. Then select the field "Last_Name" in the fields window and drag it into the text object. The variable @Last_Name@ is appended to the text and shown as a separate variable in the Variables window.
- 5 After also dragging the "Address" fields into the text object (and entering newline characters), your window should look like this:



Getting Started with PrintShop Mail

Draw a Text Object and Type a Variable Name

- Draw a text object as described above. For our example, create a text object which covers the line "Dear Sir / Madam" in the Cat-Metics letter.
- 2 Enter the text "Dear @First_Name@," (without the quotes). The variable "First_Name" is already listed in the Variables window, and will receive the same value.
- 3 Click on the fill color selection button in the document toolbar and select white as the fill color. This makes the text object cover the line "Dear Sir / Madam" from the master document:



Do not forget to enclose each variable in @ signs. If you want to use other symbols to enclose variables, you can change this in the preferences. See "Modifying Desktop Colors and Variable Markers" on page 86 for details.

4 If you enter a variable name that has not been used yet, it will appear in the Variables window and have "" as its current expression. Changing expressions is described further below.
Dragging a Database Field to the Document

If you want to create a text object which only contains one field from the database, you do not need to draw a text object first and then enter the field. Instead, follow the procedure below:

- 1 Make sure the area where you want to place the database field is visible on the screen. For the example, we will put the contact name below the letter, so you need to scroll the document down.
- 2 Click on the field "Contact" in the Fields window, drag it into the document and drop it below the line "With kind regards,". A text



There is no difference between a text object created in this way and any other text object. The text object can be moved and resized and you can edit the contents at will. The automatically chosen size of the object is set to fit the field name, not the contents of that field in the database.

Getting Started with PrintShop Mail

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Linking Database Fields to Variables

In PrintShop Mail, variable information is not immediately linked to fields in the database. Through the use of expressions, the inclusion of variable data in a personalized document is much more flexible than a conventional mail-merge program allows. This paragraph shows some of the possibilities of using expressions. Details are given in the chapter "Working with Expressions in PrintShop Mail" on page 107.

Dragging Field Names to the Variables Window

- If the Database and Variables windows are not visible yet, select "Show Database" and "Show Variables" from the "Windows" menu.
- 2 Select a database field in the Database window.
- 3 Drag the database field to the Variables window and drop it on the variable that should be linked to the field. The fieldname will replace the fieldname or expression shown in the "Calculation" column of the Variables window.

	Database	38			Yaı	riables 🛛					
14 records CatData.tab.DBF	Filter Edit				►I Record 1	of 14					
Name	Contents		/ ¥ar	Yariables Layout Conditions							
Address1	10400 Crow Lane										
Address2	San Francisco		Туре	Name	Calculation	Result					
Address3	California		A	Address1	Address1	10400 Crow Lane					
Cat_name	Bianca		A	Address2	Address2	San Francisco					
Contact	Jenny	Ч	A	Address3	Address3	California					
First_Name	Jimmy	1	A	Cat_name	IF(Cat_name ⇔"",Cat_name.	Bianca					
Last_Name	m Morris		A	Contact	IF(Contact = "Jenny", "Jenn.	Jenny Lap					
			Α	First_Na	First_Name	Jimmy					
			Α	Gender	IF(LOWER(Gender) ="m", "M	Mr.					
		~	A	Last_Name	Last_Name	Morris					
	4 >	11									

When you drop a field on a variable that was already linked, a dialog is shown, asking for confirmation before the existing link is overwritten.

Combining Multiple Fields in one Variable

A text object may contain multiple variables, each of which can be linked to a database field by drag-and-drop (as described earlier). You can also combine multiple database fields in one variable, with the following procedure:

- 1 Select I from the toolbar and click in the text object that contains the address. Replace the first line (with the @First_Name@ and @Last_Name@ variables on it) with @Name@.
- 2 Click outside the text object; the list of variables in the Variables window is updated. The "Last_Name" variable has disappeared and the "Name" variable is shown, with "" as its calculation.
- 3 Double-click on the "Name" variable in the "Variables" window. This opens the Expression builder window for the variable:

Name						
Components Favorites ● All ● String ● Number ● Date ● Barcode ● Logical ABS() AND ASC() COLUTER(,,,,) CODE320() CODE320() DATE(,) ● + - () Address1 Address1 Address2 Address2 Address3 Columer(,,,) CODE320() CODE320() DATE(,) ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	4					
🗹 Remove empty line						
Verify Cancel OK						

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- 4 Double-click on the "First_Name" field in the list to the right. This field name is now copied to the expression window in the top.
- 5 Click on the 🗟 button to add a & symbol to the expression. This is used to concatenate strings in expressions. Instead of clicking the button, you can also enter the & via the keyboard.
- 6 Click on the button. Two quotes are added to the expression and the textcursor is placed between them. Now enter a space character. This will separate the contents from the "First_Name" and "Last_Name" fields in the database.
- 7 Click behind the expression and add another + symbol.
- 8 Double-click on the "Last_Name" field in the list to the right. The fieldname is added to the expression, which is now complete:

	Name
First_Name & " " & Components All String Number Date Barcode Logical	ABSO AND ABSO AND ASCO CCOUNTER(,,,,) CONCERSO CODESSO COUNTER() DATE() V V ABSO AND ABSO AND Address1 Address2 Address2 Cat_birth_ Cat_name Contact First_Name CONCESSO COUNTER() DATE() V V R P CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() CONCESSO COUNTER() COUNTER() CONCESSO COUNTER() COUNTER(
☑ Remove emp	ity line Verify Cancel OK

- 9 You can click the Verify button to check for errors in the expression. If an error is found, the text cursor is moved to that location and the type of error is indicated.
- 10 Click "OK" to assign the expression to the variable. The first part of the expression is shown in the "Calculation" column and the result for the currently selected record is shown to the right:

		Yari	ables	36				
[4]	⊴ ▶ ▶Í R	ecord 1 of 14						
/ Yar	Yariables / Layout Conditions							
ľ	<u> </u>							
Туре	Name	Calculation	Result					
A	Address1	Address1	10400 Crow Lane					
A	Address2	Address2	San Francisco					
A	Address3	Address3	California					
A	Cat_name	IF(Cat_name ⇔"",Cat_name.	Bianca					
A	Contact	IF(Contact = "Jenny","Jenn.	Jenny Lap					
A	First_Name	First_Name	Jimmy					
A	Gender	IF(LOWER(Gender) = "m", "M	Mr.					
A	Last_Name	Last_Name	Morris	-				
			4)	14				

11 You can see the results of the expression for other records in the database by clicking the arrow buttons shown next to the Result column title.

Choosing between Alternative Texts

If the information stored in the database cannot be used exactly in the variable text of your personalized mailing, you need to create an expression which will create the required texts based on the available information in the database. The following procedure shows how the short names in the "Contact" field are translated to more user-friendly versions in the CatMetics letter. To keep things simple, we assume there are only two contact persons, Jenny and Bob.

1 Double-click the variable "Contact" in the "Variables" window to open the Expression builder window for that variable.

- 2 In the list of radio buttons to the left, click the one for "Logical". The list of available functions is filtered to only show functions matching the selection criterion.
- 3 Double-click the IF(,,) function in the function list. This is copied to the expression, with the first function argument selected.
- 4 Double-click the "Contact" field in the fields list to the right. This is copied into the first argument of the IF() function. To complete the logical expression, add the text = "Jenny".
- 5 Double-click the second function argument and type the name of the first employee, enclosed in quotes: "Jenny Lap".
- 6 Double-click the third function argument and type the name of the second employee, enclosed in quotes: "Bob Tigerman". Click OK to accept the expression and close the window.

Contact						
IF(Contact = "Jenny", "Jenny Lap", "Bob Tigerman") Image: start sta						
IF(logical_test,value_if_true,value_if_false) Components Favorites						
 All String Number Date Barcode Logical F() - Can be used for conditional results of a variable. Address1 Address1 Address1 Address2 <l< th=""></l<>						
IF(VAL(COUNTER())<100, "Lower than 100", "More than 100")						
☑ Remove empty line Verify Cancel OK						

Creating a Picture Object for Variable Graphics

- 1 Click 🖾 on the toolbar.
- 2 Draw a picture object where you wish to include variable graphics. For the CatMetics example, draw a picture object just below the contact name. This will be used to display a photograph of the contact.

						CatMetics.p	sm			ÐE
	Թ 🖏 🔽 Գ] 🛛 🗖 🖌	2. 🔼	🔳 📕 A 属			-			
1 - 4		20	s II a ii V	40 60 50 50 50 50 50 50 50 50 50 50 50 50 50	oducts ur skille ks and,	from our catalog d sales staff will thereby, it's hap	ue, you can call us 24 hor give you useful advice or piness.	urs a day how to	220	••••
200 220 240			P N	CatMetics, Inc.	VDe	riables Layo	Yariables kecord 1 of 14 ut Conditions	Result		
			2	N	A	Address1	Address1	10400 Crow Lane		
2 -					A	Address2	Address2	San Francisco		
<u>ō</u> -					A	Address3	Address3	California		
					A	Contact	IF(Contact = "Jenny","Jenn.	Jenny Lap		
8					A	First_Name	First_Name	Jimmy		
					A	Gender	IF(LUWER(Gender) = "m", "M	Mr.		
3-						Ricture 1	Last_name	PIOPPIS		
0 -					-	riotare 1				- -
10	0,0% Layout «	[1]⊳								11 11

- 3 The variable used for the picture object is automatically named "Picture 1" and appears in the Variables window.
- 4 Double-click in the picture object to open a window where you can edit the variable name and other settings. The next two subsections explain how to determine which images are shown in the personalized copies of your document. Both methods are used in the CatMetics example.



Linking the Picture Object to a Database Field

1 Double-click the variable "Picture 1" in the "Variables" window. This opens the window for the picture object that is drawn below the contact and company name. In this picture object, a photograph of the contact will be included.

	Variab	le image	
– Specifications – Name: Picture	1		
No file specified			• R
Merge Expression	🔾 Sequence	List	
Fit to rectangle © Clip	🔾 Scale (fit)	🔾 Scale (fill)	
🗌 Center Imag	e		
?	Rev	vert Cance	і <u>ок</u>

- 2 Make sure that the Expression checkbox in the "Merge" section is selected (this is the default for picture objects).
- 3 Check the "Scale (fit)" checkbox in the lower part of the settings window. This makes sure the different photos will be made to fit inside the picture object, regardless of their original sizes.
- 4 Close this window by clicking OK.
- 5 Double-click the variable "Picture 1" in the "Variables" window. This opens the expression builder window, which allows you to enter an expression that will determine which images are going to be used for the picture object.

- 6 Double-click the "Contact" field in the database fields list to copy it into the expression.
- 7 Add the text & ".photo.eps" behind the closing bracket of the IF function. This completes the expression for the picture object:

Contact	
Contact & "photo.eps" Components Favorites All ABS() + - (Address1 AND ASC() COUNTER(,,,,) Date CONTER(,,,,) CODE 1280 CODE 1	
Remove empty line Verify Cancel OK	า
	IJ

Using a Fixed List of Alternating Images

- 1 Create another picture object to the bottom right of the letter. The object is automatically named "Picture 2". Double-click the picture object to open the settings window.
- 2 Click the radio button for Sequence (in the "Merge" section of the window) and click the List button.
- 3 A Merge List window opens. Click the "Add" button to choose an image file. Once you select an image and click "Open" it is added to the merge list. Choose "Add" again to add another image file.



For the example, use the EPS images of cats which are available in the CatMetics demo folder. For a list of supported graphic formats, see "Supported Image File Formats" on page 141.

- 4 It is possible to repeat the same image for a number of consecutive records, by editing the number indicated to the right of the list. Double-click the line on which the image file is indicated and enter the number of records you want to use the image for.
- 5 Cycling the list is done by checking the button "Cycle list". The other option is to repeat the last image for all remaining records.

	lerge List	
Filename		Records
Wildcat.eps		1
Abessijn.eps		1
Siamese.eps		1
Pers.eps		1
Domestic.eps		A
Manx.eps		1
The number of repetition: list under "Records".	clear	an be changed in the
Copy last record	Cycle	list
_ Overview		
Size of database :	14	
Connected records:	14-	
Not connected :	0	
This picture will be use (List is being rotated.)	d for record 6.	
?	Cancel	

6 Once you close the merge list and the settings window, the variable "Picture 2" has disappeared from the Variables window, since it is not linked through an expression anymore.

Formatting of Text Objects

Changing the Text Style

Text style can be changed by selecting the text and then choosing one of the commands in the Text menu. Note that one variable can only have one style definition, i.e. if you want to use different styles, fonts, sizes and/or text colors for two different variable parts of a text object, you should create two variables and assign part of the text, and the desired style properties, to each of them.

The following example shows how to create a colorful "Hello" message which includes the name of the addressee's cat (if this is available in the database):

- 1 Create a text object below the "Picture 2" object.
- 2 Enter the text "Say hello to". Press the Enter key to add a newline and then enter the text "@TheCat@".
- 3 Select the text object (click outside it and then in it again) and set the alignment to Centered and the Size to 14 points.
- 4 Select I from the toolbar and select the variable @TheCat@ in the text object. Set the text Style to Bold and the Size to 18 points.

Getting Started with PrintShop Mail



5 Click the font color picker and select one of the available colors.

								tr	al	1.psi	n 🚞				
		🖓 🔽 🛙	Ъ	📕 🧸 📘					Œ	:)(ar)()				
	20			20	40								160	180	
I	1 1			I			 					 			

6 Now you can double-click the variable "TheCat" in the Variables window and define its expression as follows:

IF(Cat_name <>"", Cat_name, "your cat")

7 Choose the command Show Preview in the Windows menu. The lower part of your CatMetics document should now look like is shown here:



Printing the Mailing

- 1 Choose the "Page Setup..." command in the "File" menu to make sure that the page properties are set correctly for the printer you are going to print the mailing on. Change the settings if needed. You can save your own default values by pressing the 'Alt'-key and simultaneously clicking "OK"
- 2 Choose the "Print..." command in the "File" menu. PrintShop Mail opens a dialog which allows you to set specific options:

Printer : Laser	Writer 16/600 PS	8.3.3
	Se	lected printtechnology : Optimized PostScript
– Range – – – –		
Records: @) All 🛛 🔾 From	: 1 to 14
🗆 Split job e	very	1000 pages
Printer-pre	ferences	
Pages:	All (1 - 1)	
Destination:	Printer	Change

- 3 Choose "All" if you want to print all records in the opened database, or enter the desired range of records to the right.
- 4 If you do not want to print all pages in the document, you can open a standard printer properties dialog by clicking the "Change" button in the printer preferences section.
- 5 If you have a large database and you want to split printjobs, you can check the option and specify the number of pages that should be printed per printjob. See "Splitting Printjobs" on page 130 for detailed information.

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Creating Address Labels for the Mailing

Address labels are usually much smaller than a printed page, and are often printed on adhesive paper which contains multiple peel-off labels. PrintShop Mail contains specific support for the printing of multiple personalized documents per printed page. This section of the tutorial describes the procedure, using an example that is also available on the CD.

In the description below we use an EPS for the label, which has been produced in QuarkXPress and is available on the CD. If you create your own EPS image, make sure the document size for the EPS is set such that it will fit on the label.

1 Create a new document. In the "Layout Setup" dialog that opens, choose the "Other" option from the drop-down list and enter the desired width and height for one address label, as shown. You can use either periods (.) or colons (,) as the thousands-separator. In the Apple menu under "Control Panel - Numbers" you can change the settings.

	Layout Setup
Page: Width: Height:	Other Image: Constraint of the constraint
	Cancel OK

2 After clicking OK, a new document will be shown in the PrintShop Mail program window, with the specified size.

- 3 If no database was open yet, open the "CatData.dbf" or import the "CatData.tab" database. If you have just completed the previous section of the tutorial, this database will still be open.
- 4 Save the document with the name "CatLabel.psm".
- 5 Choose "Place image" Or "Place PDF" from the "File" menu and select the file that contains the static elements needed on the label. For the tutorial job, choose the file named "CatLabel.eps".
- 6 If the image is smaller than the chosen layout size, you may need to move it to the desired location on the label.
- 7 Draw a text object to hold the addressee's name and address
- 8 Drag the database fields to the text object and enter the space and newline characters where needed. See the description on page 32 for details.

9 Choose the "Show Preview" command from the "Windows" menu to see what the result will look like. Browse through the database by clicking the arrows in the top part of the variables window. The label design for the tutorial should look like is shown here:



10 Check whether the "Page Setup" is correct for the printer and paper you are going to use. The paper size determines how many labels can be fitted on one printed page.

11 Open the "Preferences" in the "Edit" menu and choose the section titled "Print Order". The following dialog is shown:

	Preferences
Program Printer	Layout Spacing between Layout Hor: 2 (2) Hor: 0,0 mm Ver: 4 (4) Ver:
Print order	Priorities 2 4 2 ÷ Left >> Right 1 3 3 ÷ Top >> Down + 16 1 ÷ Front >> Back + 13
Numerator	Double-sided Layout
2	Cancel OK

- 12 Specify the number of repetitions in horizontal and vertical direction. The number between brackets shows the maximum number of prints that will fit on the page with the current layout size and selected printer page size. Note that you need to press tab after editing to make other controls in this dialog adjust to changes.
- 13 The priorities section determines in what order the copies of your layout document will be placed on the pages. Choose a priority from the pop-down list to the left. The next pop-down allows reversing the ordering on that priority level. While you make changes, the image to the right changes accordingly. See "Defining the Print Order" on page 88 for more details.
- 14 After you have finished the Print Order preferences, close the dialog and execute the "Print..." command from the "File" menu.

Getting Started with PrintShop Mail

Creating PrintShop Mail Documents

Introduction

This chapter covers all you need to know to create documents in PrintShop Mail. The following topics are covered:

Торіс	See
How a PrintShop Mail Document Is Built Up	page 54
Creating a New PrintShop Mail Document	page 55
Opening an Existing PrintShop Mail Document	page 57
Handling Pages in a PrintShop Mail Document	page 58
Creating and Deleting Objects	page 63
Manipulating Objects	page 68
Formatting Objects	page 75
Formatting the Contents of a Text Object	page 79
Integrating Barcodes in PrintShop Mail	page 83
Changing the PrintShop Mail Preferences	page 85

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How a PrintShop Mail Document Is Built Up

Static Page Elements

The static page elements are normally created in applications like QuarkXPressTM, Aldus FreehandTM, Adobe IllustratorTM or Adobe PhotoshopTM. From these applications you create static images (in EPS or other formats), which can then be imported to the PrintShop Mail document using the "Place Image" command. If you have Adobe Acrobat 4.0 or higher and at least 50 MBytes of memory available on your Macintosh, you can also place PDF files.

Variable Page Elements

The variable page elements are defined as PrintShop Mail objects: the text and picture objects you add from within the program. The variable objects are bound to database fields and change contents with each database record that is used.

Page Size and Printable Area

The page size for your document can be by selecting the "Layout Setup" command in the File menu. To avoid that parts of objects are positioned outside the printable area, select "Show Printable Area" from the View menu. Thin blue lines appears next to the rulers at the borders of your document. These lines surrounds the printable area, in which all PrintShop Mail variables must be positioned.

Fi	le	Edit	ltem	Text	Layout	Database	View	Windows	Help		
E							Hide	e Preview		ЖΥ	
	[<u>الا</u> 🗗	<mark>4</mark> Pb		Ø. 🗾	📕 A 📘	Z00	m In m Out		≋+	
	<u>.</u>	uulu	പ്ല	20 Luurulu	40	60	Acti	ial Size		- ao	160
Ш	1						Win	dow Size			
	Э						Sho	w Printable	Area		
ģ							Sho	w Invisible	Characters	% 1	
Ш	Э.		1 1	Drin	tabla	Aroa	Hide	e Guides		ж;	
	1			ГШ	lapie	Alea	🗸 Sna	p to Guides	1	£₩;	

Details on the optional Bleed Margin, Crop Marks, and Folding Lines are given in "Specifying a Bleed Margin and Cropmarks" on page 127.

Creating a New PrintShop Mail Document

- Select "New" from the File menu. The following window pops up: 1 Layout Setup A4 Page: **\$** 10 Portrait Width: 289.9 mm \$ Î Landscape \$ 297.0 mm Height: Cancel 0K
- 2 Adjust the settings to your requirements. The table below shows more information on the options in the Layout Setup window. You can use either periods (.) or colons (,) as the thousands-separator. In the Apple menu under "Control Panel - Numbers" you can change the settings.

Setting	Description
Paper	Select a standard size for your PrintShop Mail document, i.e. A4, A3, B5, US Letter. Select "Other" to enter customized settings.
Width	Enter custom width (enabled if you have selected "Other" as a paper size).
Height	Enter custom height (enabled if you have selected "Other" as a paper size).
Orientation	Select either Landscape (lower button) or Portrait (upper button).

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You can adjust the Layout Setup settings at any time after the document has been created, by selecting "Layout Setup" from the "File" menu.

- 3 Click "OK". A new PrintShop Mail document is opened.
- 4 Select "Save As..." from the "File" menu to save the document. The following window pops up:

🕲 CatMetics 😫	👝 Harddisk
🔁 Abyssinian.eps	▲ Eject
📷 Bob.photo.EPS	
💱 Bob.sign.EPS	Desktop
强 CatData.DBF	New 🕅
📄 CatData2.tab	▼
Save this document as:	Cancel
trial 1.psm	Save

5 Enter a distinctive file name, choose the folder where you want the document to be placed, and click the "Save" button.

Opening an Existing PrintShop Mail Document

- 1 You can only have one document opened at a time in PrintShop Mail. If you want to open another document, first select "Close" from the File Menu to close the currently opened document.
- 2 Select "Open..." from the "File" menu. The following window pops up:

CatMetics 🗢		👝 Harddisk
😼 CatMetics.psm		Eject
		Desktop
		Cancel
	*	Open

3 Select a PrintShop Mail document from the list and click "Open". The following window may pop up:

The database 'data.tab.DBF' could not be found. Please open it manually.
ОК

- 4 Click "OK". Now the document will open. See "Using a Native (DBF) Database" on page 97 to open the database manually, if necessary.
- 5 If you are opening a document which you have recently worked on, you may find it in the short list of recently opened documents, which you will find in the "File" menu, in the "Open Recent" submenu.

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Handling Pages in a PrintShop Mail Document

Inserting Pages

1 Choose the "Insert..." command from the "Layout" menu.

Insert page(s)					
Insert:	1 page(s)	 In front of page: After page: After end of document 			
		Cancel OK			

2 Select the number of pages you want to insert, and indicate where these pages should be inserted. Click "OK" to insert the pages. The first of the inserted pages is shown on your layout.

Deleting Pages

1 Choose the "Remove Page(s)..." command from the "Layout" menu.

Remove page(s)		
Remove pages: 1 till 1		
This document consist of 2 pages. Please notice : one page minimum.		
Cancel OK		

- 2 Set the page numbers for the range of pages you want to remove and click "OK". All objects on the removed pages (the static and variable objects) are lost.
- 3 Note that a PrintShop Mail document must contain at least one page. Deleting the last remaining page is refused.

Moving Pages

1 Choose the "Move..." command in the "Layout" menu. The following window pops up:

	Move page(s)			
Move page(s):	1 t/m: 2 O In front of page: After page: At the end of document			
	Cancel OK			

2 Enter the range of pages you want to move and the destination of those pages, then click "OK".

Using the Document Layout Window

1 Open the Document Layout window by choosing the "Show Document Layout" command in the "Windows" menu. The window looks like is shown here:



The page properties (a page name and the paper tray that is used when printing each page) are shown to the right of the page number.

2 To add a page, select the page after which you want to insert a new page and click the add page symbol (shown to the right on the bottom line of the window).

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- 3 To delete a page, select the page in the Document Layout window and press the Trashcan symbol. A confirmation dialog is shown before the selected page is deleted.
- 4 To move a page, select the page in the Document Layout window and drag it to another location. A small triangle to the left of the window shows where the page will be placed when you release the mousebutton.
- 5 To set or change the name for a page, double-click the page in the Document Layout window. The following dialog pops up:

Page Properties		
Name:		
Tray:	Standard or Previous 🔶	
	Cancel OK	

Enter the desired page name and click "OK". The name is shown in the Document Layout window, above the tray selection:



- 6 The options for tray selection depend on the used printer. The list allows choosing a different tray per document page.
- 7 Close the Document Layout window by choosing the "Hide Document Layout" command in the "Windows" menu or clicking the close box in the Document Layout window.

Placing EPS Images

1 Select "Place Image..." from the "File" menu. The following window pops up:

🕲 CatMetics 🗢	👝 Harddisk
Bob.sign.EPS CatData2.tab CatLabel.eps CatLogo.pict CatMetics.eps domestic.eps	Eject Desktop Cancel
📲 Jenny.photo.EPS 📃 👻	Open

- 2 Select the image file for the current page of your PrintShop Mail document. Then click "Open".
- 3 Move the image file to the desired location. If you want to resize the image, drag its sides inward or outward (using the handles shown when you select the image on the screen).



The use of single-character variables in EPS and other files is also supported (these should be enclosed in @ signs, and they cannot be centered).

- 4 Repeat this step for all pages of your document with all the image files that you want to place.
- 5 If the images are partly overlapping, you move them to different levels by selecting one and choosing one of the commands in the "Move" submenu in the Item menu.



Placing PDF Images

- 1 Select "Place PDF..." from the "File" menu.
- 2 When doing this for the first time, PrintShop Mail does not yet know where Adobe Acrobat is located. A dialog is opened for you to locate the program:

Please locate Adobe Acrob	at.
🕲 Adobe Acrobat 5.0 💲	📼 Macintosh HD
🖄 Acrobat 5.0	Eject
💐 AdobePS	
🟐 Distiller	Desktop
🏐 Help	
🐧 JavaScripts	Cancel
🟐 Legal	
🐧 Palm Pilot	▼ Open

PrintShop Mail now places the PSMail plug-in for Acrobat in the Acrobat Plug-ins folder and then starts the program. The next time when you place a PDF, PrintShop Mail automatically starts Adobe Acrobat in the background. The location of the program is stored in the PSMail preferences.

3 Once Adobe Acrobat is started, you can select the PDF to open:



4 Move the image to the desired location on the page.

Creating and Deleting Objects

Creating a Text Object

- 1 Click A on the toolbar.
- 2 Draw a text object where you wish to include variable text.





To display the tab ruler, select "Show Tab Ruler" from the "Windows" menu. The ruler is only shown when you have clicked in a text object.

3 Enter variable names between two @ signs:



You can combine the variables with ordinary text: all text that is not enclosed in pairs of @ signs is printed on all copies of the document, with the variables filled in according to their expressions. For details on tab settings, see "Setting Tabs in a Text Object" on page 80.

Creating PrintShop Mail Documents

4 Once you have entered the first variable and clicked outside the text object, the Variables window pops up and displays all known variable names:

		Yari:	ables E	18
		⊳Г Record 1	of 1	
Yariables Layout Conditions				
Туре	Name	Calculation	Result	
A	adress1			
A	adress2			
A	adress3			
A	firstname			
A	lastname			-
				Ŧ
			()	11

- 5 Proceed similarly for all text objects you wish to include in the document.
- 7 To view the contents of the Clipboard before pasting it into a text object, you can select the "Show Clipboard" command from the "Edit" menu. If a variable name is used more than once, the contents of that variable change in all the text objects where they have been used, according to the expression assigned to them (which is shown in the Variables window).

Creating a Picture Object

- 1 Click \square on the toolbar.
- 2 Draw a picture object where you wish to include variable graphics. The name "Picture 1" will appear in the Variables window.



3 Double-click the picture object. The settings window pops up:

Name: Pictu	ire 1		
No file specified			
Merge			
Expressio	n 🔾 Sequence	List	
Fit to rectan	/le		
🖲 Clip	🔾 Scale (fit)	🔾 Scale (fill)	
🗌 Center Im	age		

4 Enter a distinctive name for the picture object, if necessary. The name will automatically be adjusted in the Database window.

Creating PrintShop Mail Documents

5 Check the options needed from the "Fit to rectangle" group:

Option	Description
Clip	The imported graphic keeps its original size, but only the part visible in the picture object will be printed.
Scale (fit)	The imported graphic will be resized to the size that fits best inside the picture object, keeping its original aspect ratio. Part of the picture object may be empty.
Scale (fill)	The imported graphic will be resized to the size that fills the entire picture object, keeping its original aspect ratio. Part of the image may be clipped.
Center Image	The imported graphic will appear in the middle of the picture object.

6 Click "OK". For details on the "Merge" options, see "Creating a Picture Object for Variable Graphics" on page 41.

Deleting an Object

1 Press k in the toolbar and select the object you wish to delete.



All variables defined for the object you are about to delete, will disappear, including the expressions and other settings you have defined for them.

2 Press the Backspace key or select "Clear" from the "Edit" menu.

Getting Information on an Image

- 1 Select an image by clicking on it.
- 2 Select the "Information" command from the "Item" menu or double-click on the image. If you have selected an EPS image, the Static Image window pops up:

Static Image		
Cath	atias ans	
	eucs.eps	
Encaps	ulated PostScript	
Scal	e image	100,0 %
	Revert	Cancel OK

If you have select a picture object, the Variable Image window pops up:

Variable image
Specifications Name: Picture 1 No file specified
Merge O Expression Sequence List
Fit to rectangle © Clip
Revert Cancel OK

Creating PrintShop Mail Documents

Manipulating Objects

If you want to change the position and size of objects with great precision, you can use the Coordinates window. Select the "Show Coordinates" command from the Windows menu. Details are given in "Using the Coordinates Window" on page 74.

Moving Objects

- 1 Select h from the toolbar and click on the object.
- 2 To select multiple objects, hold down the Shift key while you click on each of them, or draw a box that encloses the objects. To select all objects on the current page, choose "Select All" from the "Edit" menu. Note that this also selects static images.
- 3 Position the cursor in the selected object. The cursor will change into a small square with four arrows pointing outward.
- 4 Drag the object to its new position. Also see "Using the Guides to Position Objects" on page 70.



If you want to move an object pixel by pixel, select it and use the arrow keys, not the mouse, to move it.

Resizing Objects

- 1 Select k from the toolbar and click on the object.
- 2 Handles will appear on the corners and in the middle of each side of the object border. Move the cursor over one of the handles. The cursor turns into a thin double-headed arrow.

3 Click the handle and drag it to resize the object. Text will be wrapped when it does not fit in the text object anymore. In this case, a small square appears in the lower right corner of the text object. Note that this only shows when the actual text does not fit in the object, i.e. the square may show for some records but not for others, as shown in the example below:

	·
🕻 Jimmy Morris 👘 🥈	🛛 Janey Johansson 👘
10400 Crow Lane	Hilton Hotel room
🖁 San Francisco 📲	3156
California	Chicago _ 🖂
<u>e</u> a	2

4 To check whether data from all records will fit in the text box, you can use the layout check function, as described in "Checking your PrintShop Mail Document" on page 125.



To return an image to its original size, select the image and select "Original Size" from the "Item" menu.

Displaying Guides on Your Document

- 1 Select "Show Layout Rulers" from the "Windows" menu.
- 2 Select "Show Guides" from the "View" menu.
- 3 Click the arrows at the right-hand side of the top ruler and select "Guides" from the pop-up menu:



4 For a vertical guide, click in the vertical ruler (at the left side of the document window) and drag the mouse onto your document. For a horizontal guide, click in the horizontal ruler (at the top of the document window) and drag the mouse downward.

Creating PrintShop Mail Documents

- 5 A guide appears while you are dragging the mouse. Release the mousebutton when you have reached the desired position for the guide.
- 6 The guides are shown as green lines on top of all visible elements of the page (you can change the settings of the guides in the preferences).



- 7 You can place multiple vertical and horizontal guides. Each page has its own set of guides.
- 8 To remove a guide, place the mouse on top of it until the cursor changes shape. Then drag the guide back to the vertical or horizontal ruler.

Using the Guides to Position Objects

- 1 Select the "Snap to Guides" command in the "view" menu to make the guides "magnetic".
- 2 Select an object and move it towards a horizontal and/or vertical guide. When releasing the object in the vicinity of the guide(s), the object moves such that it aligns with the guide(s) exactly.
3 To reduce or enlarge the "Magnetic strength" of the guides, choose the "Preferences..." command in the "Edit" menu:

	Preferences	
Program Economical Action	Variable Marking: Units	@ Begin @ End points
Printer	Printable Area Guides Magn. strength	Bottom Top 7
Impositioning Numerator	Bleed	Folding lines
		Cancel OK

4 Change the number for "Magn. strength" in this dialog and click "OK". The indicated number of points is the distance from the guide, within which an object will be drawn to the guide position.

Rotating Objects

- 1 Select the object you wish to rotate.
- 2 To select multiple objects, hold down the Shift key while you click on each of them, or draw a box that encloses the objects. To select all objects on the current page, choose "Select All" from the "Edit" menu. Note that this also selects static images.
- 3 Open the "Rotate" submenu in the "Item" menu and select one of the available options, i.e. 0°, 90°, 180° or 270°. The object(s) and the contents will be rotated clockwise over the chosen angle.

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Aligning Objects

- 1 Hold down the Shift key while you select the objects you wish to align. Instead, you can also draw a box that encloses all objects that need to be aligned.
- 2 Open the "Align" submenu in the "Item" menu.
- 3 Select one of the available options from the submenu:

Alignment option	Description
Left Edges	To align the selected objects along their left edges.
Right Edges	To align the selected objects along their right edges.
Top Edges	To align the selected objects along their top edges.
Bottom Edges	To align the selected objects along their bottom edges.
Horizontal Centers	To align the selected objects along their horizontal centers.
Vertical Centers	To align the selected objects along their vertical centers.

Moving Objects Forward or Backward

If object are (partly) overlapping, their ordering determines which objects are printed on top of others. The objects are organized in layers, from the back (printed on the page first) to the front (printed last, i.e. on top of other objects).

- 1 Select k from the toolbar.
- 2 Select the object you wish to edit. Hold down the Shift key to select more objects at a time.
- 3 Open the "Move" submenu in the "Item" menu and select one of the available options. The commands in the submenu are:

Option	Description
To Front	To place an object on top of all others.
Forward	To move an object one layer forward.
Backward	To move an object one layer backward.
To Bottom	To place an object behind all others.

Locking and Unlocking Objects

- 1 Select **k** from the toolbar.
- 2 Select the object(s) you wish to lock or unlock and choose the "Lock" or "Unlock" command from the "Item" menu.



The handles of a locked object turn grey. Moving locked objects is not possible, but you can still change the contents (including its settings).



Using the Coordinates Window

 Select "Show Coordinates" from the "Windows" menu. The Coordinates window appears:

	Coor	di nates 💠	E
X: 31,044 W: 36,688	∆h :	0,0 Units:	Revert
Y: 158,746 H: 42,685	۸v:	0,0 mm 韋	Apply

2 Select the unit of measurement you wish to use: mm, inches, cireros, didots, picas or points.



The unit you select in the Coordinates window also applies to the Layout and Tab Rulers, and to the unit of measurement in the Preferences.

3 As you move or resize objects, the values in the Coordinates window are automatically updated. To set the position and size of objects with great precision, you can edit the values (the values are greyed and not editable when the object is locked):

Value	Description
X: 31,044 Y: 158,746	X shows the horizontal and Y the vertical position of the selected object. 0,0 is the top left corner.
W: 36,688 H: 42,685	W shows the width and H the height of the selected object.
∆h: -10,936 ∆v: 7,055	Δh shows the change to the object's horizontal position and Δv the relative change to its vertical position while you are moving or resizing it.

4 Click "Apply" to confirm the adjusted settings or "Revert" to reject the changes and return to the previous values.

Formatting Objects

Restyling Object Borders

- 1 Select the object of which you want to restyle the borders.
- 2 Click on the document toolbar. A menu pops down, from which you can select the desired line thickness. If you move the mouse outside the area of the pop-down menu, the pop-down menu is placed in a floating window, which stays open and can be used to restyle object borders for other objects.

🗉 💠 Lines 📖 🗐
None
√ HairLine
1 pt
2 pt
4 pt
5 pt
6 pt
7 pt
Bpt 8 pt
12 pt
Other

75

3 If you select "Other...", the following dialog appears:

Line Thickness: 24,0 points
Cancel OK

Enter a custom line thickness and click "OK".

Changing Object Colors

For variable text objects, colors can be chosen separately for the background, the borders and the text. For variable images, only the background and border colors can be chosen.



If you select colors when no objects are selected, you change the default colors, which will be used when a new object is created. The default colors are stored in the preferences and used the next time you open PrintShop Mail.

The procedure for changing object colors is the same for any of the object elements that can be set. The buttons that open the color palette or the color picker are repeated for the three different elements, and are placed on the document toolbar, as shown:



Choosing Colors from the Color Palette

- Select the object for which you want to choose the background, border and/or text color. You can change the color for more than one object at a time by selecting multiple objects while holding down the Shift key.
- 2 Select a color from the Color Palette. Click the color indicator on the document toolbar (in the fill section, the border section or the text section). Select one of the colors in the color palette.
- 3 If you move the mouse outside the color palette area, it is detached from the toolbar and becomes a floating window. The title bar shows for which element the color palette is used. This window stays open until you click its close box.
- 4 You can redefine a color in the color palette by double-clicking the color. This opens the Color Picker, which is described in the following paragraph. Once you have defined the color, it replaces the selected color in the color palette.
- 5 Since the same color palette is used for all three elements, the same color is changed in all color palettes equally.

Defining Colors in the Color Picker

- 1 Select the object for which you want to choose the background, border and/or text color.
- 2 Click the current color indicator in the document toolbar for the element you want to change (background, border or text). The Color Picker window pops up:



3 Select a color by clicking in the color disc or entering the values in the edit boxes to the right. The brightness can be changed by dragging the scrollbar below the color disc. Click "OK" to set the color.

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Overprint and Knockout

Applying Overprint to Objects

Overprint is used to show the background through the text object.

1 Select an object containing variable data. In this example, the text color is yellow and the background is cyan:



2 Select "Overprint" from the "Item" menu. The yellow text blends with the cyan background and the printed result will be green:





The blending of background and foreground cannot be made visible on the screen, so the green color will not be shown, even when "Show Preview" is selected.

Applying Knockout to Objects

Knockout is used to hide the background image behind the object.

- 1 Select the object.
- 2 Select "Knockout" from the "Item" menu. The object will be printed exactly as shown on the screen, regardless of the background. In the above example, the text "Koozbaine" will appear in yellow.

Formatting the Contents of a Text Object

Entering Text and Variables into a Text Object

- 1 Select "Show Invisible characters" from the "Windows" menu to display the text symbols.
- 2 Select $\boxed{1}$ from the toolbar and click in the text object.
- 3 Start typing text and variables.



Variables must be enclosed in @ signs, e.g. @Name@, and may consist of 30 characters at the most.

Aligning the Text in a Text Object

- **1** Position the cursor in the text object.
- 2 Click the appropriate button on the document toolbar or select a command from the "Align" submenu in the "Text" menu.

Toolbar	Align menu	Description
E	Left	To align text left in text object.
Ξ	Centered	To center text in text object.
Ξ	Right	To align text right in text object.
	Justified	To apply justified alignment to the text in the text object

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Setting Tabs in a Text Object

- **1** Position the cursor in the text object.
- 2 Select "Show Tab Ruler" from the Windows menu. The tab ruler will appear immediately above the selected text object:



3 Click the Tab selector in the top of the ruler and choose the tab type from the pop-down menu. The "Right Margin" type is described further below.

	Tab Rule	r
	t Left	
kμ.	↑ Centered	لسسيساليسبا
<u>۳</u>	♪ Right	
	↑. Point	
	t Comma	
•	 Right Margin 	e e

4 Click in the bottom part of the ruler at the position(s) where you want to place a tab. The appropriate tab symbol is placed at the chosen position(s).

Editing Tab Settings in a Text Object

1 Click on a tab position on the text ruler. The Tab Settings window pops up:

1	Tab settings
Alignment:	t Left 🔶
Position:	48.3 mm
Apply	Cancel OK

Creating PrintShop Mail Documents

Adjust any settings in the Tab Settings window: 2

Setting	Description
Alignment	Select another alignment option for the tab.
Position	Enter another position for the tab.



Note that you can simply drag the tab to another position on the text ruler to alter its position.

- Click "Apply" to get a preview. 3
- Click "OK" to accept or "Cancel" to reject the changes. 4



Remove a tab position by simply dragging the arrow off the text ruler. The upper part of the text ruler displays the message "delete".

Indenting Text in a Text Object

- Select the lines of text to be indented. 1
- Drag the indent marker to the desired position on the text ruler. 2



3 Drag the right margin to the desired position on the text ruler.

Note that the right margin marker determines where word wrapping is done when text lines are too long to fit in the text object.

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Defining Leading between Text Lines

- 1 Select the lines in a text object between which you want to adjust the leading.
- 2 Select "Leading" from the "Text" menu. The following window pops up:

	Leading
Automat	ic
🔾 Fixed:	points
Apply	Cancel OK

3 Select one of the available settings:

Setting	Description
Automatic	To apply a default leading based on font and size.
Fixed	To apply a customized leading in points.

Defining Text Font, Text Style and Text Size

- 1 Select the text in a text object. You can apply different fonts, styles and sizes to different portions of text in the same text object.
- 2 Select the text and apply the desired font, size and style from the "Font", "Size" and "Style" submenus in the "Text" menu.



You can only apply one font, style and size to a variable text: if you select part of a variable name and apply text formatting, the format will be discarded or applied to the entire variable text.

Integrating Barcodes in PrintShop Mail

Detailed information on barcode functions is given in the Appendix, which contains the current list of available barcode generators.

- 1 Draw a text object and enter a variable name, e.g. @Barcode@.
- 2 Double-click the chosen variable name in the Variables window. The Expression window pops up.

	Barcode
EAN8("1234") EAN8(text) Components	▼ Favorites
String String Number Date Barcode Logical	CUDB AR(,,,,)
Remove emp	ty line
	Verify Cancel OK

- 3 Click the radio button titled "Barcode" to display all barcode generators, and select the required function from the list. A barcode function translates a numerical code to a text string, which yields the desired barcode when printed with a special barcode font.
- 4 As the argument to the barcode function, enter the database field that contains the code that should be translated into a barcode. Some barcode functions require another argument. For details on

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the available barcode generators and the required arguments, see the Appendix. Also, you may want to check the technical documentation of the barcode readers you are going to use.

5 Select the variable and pick the barcode font, that is specified for use with the chosen barcode generator, from the fonts list in the "Text" menu. Adjust the font size to show the barcode at the specified or desired size. Use the "Show Preview" in the "Windows" menu to see the result on your screen.

Examples of EAN8 and UPCA barcodes:



Changing the PrintShop Mail Preferences

The various preferences for PrintShop Mail can be changed through the "Preferences" command in the "Edit" menu. This command opens a dialog window, in which the preferences are grouped. The pages can be opened by clicking the appropriate icon in the preferences group list to the left of the window.

lcon	Description	Page
×	Program : Variable markers, measurement units, colors for guides, magnetic strength	86
<mark>&</mark> 2	Printer : Move print, report page, specific options for printing technologies	87
1 4 3 4 5 6	Print order : Number of prints per page, ordering and positioning (also double-sided)	88
Ţ	Impositioning : Bleed margin size and position, crop marks, folding lines	90
3	Numerator: Settings for the built-in COUNTER function that is used to add serial numbers to copies of documents	91
	Pictures : Location of variable images, maximum preview size per image	92
	Date format : Format string and language for dates generated by the DATE function	93

Creating PrintShop Mail Documents

Modifying Desktop Colors and Variable Markers

The appearance of generic elements in the document window can be adapted to your individual wishes.

1 Select the "Program" section in the "Preferences" dialog:

	Preferences	
Printer Light Print order Impositioning	Variable Marking: Units Printable Area Guides Magn. strength	@ Begin @ End points points Bottom Top 7 points Folding lines
Numerator V		Cancel OK

- 2 Specify different variable markers, if necessary.
- 3 Change colors by double-clicking the color boxes and choosing a new color from the color picker:

Item	Description
Printable Area	Area in which all variable objects must be positioned.
Guides	Guides help you position objects.
Bleed margin	Margin intended for cropmarks.
Folding lines	Folding lines are meant for finishing purposes.

Setting the Printer Preferences

PrintShop Mail supports a wide range of printing technologies. In some printer types, special functions are supported which can be used from within PrintShop Mail. See "Supported Print Technologies" on page 142 for details.

1 Select the "Printer" section in the "Preferences" dialog:

De	ocument preferences for CatMetics.psm 🛛 🗖
Program	Move PrintΔh:0,0 mm Δν:0,0 mm
de la	Technology: Optimized PostScript 🗣
Printer	Cache Size: 200 KD Use printer hard-drive. Optimized PostScript is the new name for Forms.
Impositioning	Custom cache is not always definable, this depends on your RIF. If this does not work you will get the error %%invalidaccess on your printer.
Numerator	Reportpage
2	Cancel OK

- 2 If you need to move the printed page along the horizontal or vertical axis, you can enter the pointsizes in the Δh and Δv boxes.
- 3 In the Printing Technology section you can choose the printer type from the pop-down list. If specific options are available, they will be shown in this part of the window.
- 4 In the bottom section you can specify whether a report page should be printed after each printjob. Also, you can send a separate report page (e.g. to send or fax to Atlas Software when requesting support) to the printer immediately by choosing "Print Report Page" from the "File" menu".

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Defining the Print Order

If you want to print more than one document (e.g. an address label or business card) per page, you need to specify the repetition size and printing order.

1	Select the	"Printorder"	section	in the	"Preferences"	dialog:
---	------------	--------------	---------	--------	---------------	---------

)ocument preferences for untitled 2
Program Printer Print order Print order Impositioning Numerator	Bleed margin Add to Job
	Cancel OK

2 Specify the number of repetitions in horizontal and vertical direction. The number between brackets shows the maximum number of prints that will fit on the page with the current layout size and selected printer page size.



Note that you need to press tab after editing to make other controls in this dialog adjust to changes.

3 If the labels should not be printed immediately next to each other, you should indicate the spacing between labels in horizontal and/or vertical direction.

- 4 The priorities section determines in what order the copies of your layout document will be placed on the pages. Choose a priority from the pop-down list to the left. The next pop-down list gives the option to reverse the ordering on that priority level. While you make changes to the priorities and ordering, the image to the right changes accordingly..
- 5 The "Double sided layout" option enables you to match front and back of records when printing double-sided. This option only works if your layout document has two pages (front and back). If you select this option, the record numbers used for the front and backside of the page are matched. Also, the position of the labels on the backside is mirrored from the frontside. The result is shown in this example:



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Adding Bleed Margin, Crop Marks and Folding Lines

For post-processing of printjobs, various options need to be set and markers need to be printed on the pages.

Program Program Add to Job Width: 5,0 mm		ipositioning section in the Freierences
Program Bleed margin Add to Job + Width: 5,0 mm		Preferences 🛛 🗧
Printer Impositioning Print order Impositioning Impositioning Impositioning	Program Program Printer Inpositioning Numerator	Bleed margin Add to Job 🛊 Width: 5,0 mm Cropmarks Cropmark Gap size: 2,0 mm Folding lines Overlay length: 10,0 mm Automatic positioning

1 Select the "Impositioning" section in the Preferences dialog:

- 2 Choose the option for the Bleed margin: None, Add to Job or Include in Job. When added to the job, the indicated size is added to all sides of the chosen paper size, i.e. the size of the printed pages increases. When included in the job, the bleed margin is subtracted from the chosen paper size on all sides.
- 3 Choose the option for crop marks and specify the gap size. This is only possible when you have defined a Bleed margin.
- 4 If you want to use folding lines, select the folding lines option and set the overlay length. See "Adding a Folding Line" on page 128 for details on how to use folding lines.

Defining the Counter Characteristics

PrintShop Mail contains a COUNTER function, which can be used to serialize documents independent of a database record. The settings for this COUNTER function are defined in the Preferences.

1 Select the "Numerator" section in the "Preferences	" dialog:
--	-----------

	Preferences E
Program Program Printer	Number of repetitions: 1 Start Value: 1 🗹 Leading zeros Step Size: 1 Number of Digits: 4
Print order	Number of items without database: 25
Impositioning Numerator	This data will be used in the COUNTER() function, if you want to use more, or different, numerator, then use the CCOUNTER() functions. Number of items without database will only be activated if there is no opened database.
2	Cancel OK

- 2 Select the start value and the step size for the counter.
- 3 If you want the same number to be printed more than once before the counter value is incremented, you should specify the number of repetitions.
- 4 Specify the number of digits to be printed. If you always want the same number of digits to be used, even in small numbers ("001" instead of "1"), you should check the "Leading Zeroes" option.
- 5 The "number of items without database" option allows you to serialize documents without access to database records.

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Locating Variable Images

Variable images allow personalizing your documents with pictures, which need to be located in specific folders.

1 Select the "Pictures" section in the "Preferences" dialog:

	Document preferences for untitled 2
Print order Impositioning Numerator Piotures Date format	Location of variable images O Database folder Other: Edit Macintosh HD:Desktop Folder:CatMetics Search subfolders
2	Cancel OK

- 2 Indicate whether the variable images are located in the database folder or elsewhere.
- 3 If you choose "Other", you need to specify the folder by clicking the "Edit..." button. The chosen folder is indicated below the folder selection options. If you want subfolders to be used, check the "Search subfolders" option.

Specifying the Date Format

The specified date format is the default format in date functions in the Expression builder.

1 Select the "Date format" section in the "Preferences" dialog:

	Preferences
Print order	Format: Other 🗢 Language: U.S. 🗢
Numerator	Example Monday, 12 April 1999
Pictures Date format	This is were you can define the way the date is displayed when Tinked to a variable. With "Format" you choose the way it's displayed. With "Language" you select the language.
2	Cancel OK

- 2 Select a format from the drop-down menu.
- 3 If you choose "Other..." the following window appears:

Custom Date Format
Custom Date Format:
thursday 🜩 , 🜩
31 🔶 🜩
october 💠 🗢
2000 🗢
Example
Monday, 12 April 1999
Cancel OK

Creating PrintShop Mail Documents

Working with Databases in PrintShop Mail

Introduction

This chapter explains how to link variable page elements in a PrintShop Mail document to database fields. The following topics are discussed:

Торіс	See
Names not to use as Database Fields	page 96
Using a Native (DBF) Database	page 97
Using an ODBC Connection	page 98
Using a Text File as Database	page 99
Linking Database Fields to Variables	page 101
Filtering Database Records	page 102
Sorting the Database	page 106

Names not to use as Database Fields

Keywords

Some words must not be used as field names in your database. They are keywords reserved for the expression parser:

- AND
- OR
- NOT
- TRUE
- FALSE

Function Calls

Expressions may contain functions and database field names. To keep these apart, you should avoid using function names as database fields. If a database field name is the same as one of the functions in PrintShop Mail, the database fieldname will get an underscore appended to it. Refer to "Working with Expressions in PrintShop Mail" on page 107 for further information on expressions, functions and arguments.

Using a Native (DBF) Database

Using an Excel[©] or Claris[™] FileMaker Database

The following rules apply to a file in native database format, i.e. DBF, if you want to link it to a PrintShop Mail document:

- The first line in your database should contain the field names.
- Field names should only contain alphanumeric characters and underscores, and have a maximum length of 10 characters.
- The variable data should be listed below the first line.
- Variable data items should not contain quotes.
- The database file should be saved as a DBF3 or DBF4 file.
 In Claris FileMaker, you have to export the file to DBF format.
- The filename should have the ending ".dbf" (not dbf3 or dbf4).

Storing Image References in a Database

The following rules apply to variable image references in database files:

- The variable images referred to in the database should have the same name as the image files you are going to use.
- The image files referred to should be located in the same folder as the database file.

Opening a Native Database File in PrintShop Mail

1 To avoid problems with special characters (e.g. ë, å, ç, etc.) that may be stored in the database, you should select the correct settings from the "DOS Table" submenu in the Database menu. 2 Select "Open DBF-File..." from the "Database" menu. The following window pops up:

🕲 PSM demo 😫	👝 Harddisk
🂐 Address Labels	▲ Eject
🌂 Autos 🌂 Business Cards	Desktop
🛄 CatMetics 📜 CinemaTickets	Cancel
UUSMUBIIE	- Open

3 Select the desired database file and click the "Open" button. All field names of the database file appear in the Database window.

Opening Another Database

- 1 Select "Close" from the "Database" menu to close the currently opened database. It is not possible to have more than one database file open at the same time.
- 2 Open another database through the "Open DBF-File..." command.



The newly opened database file should at least contain the fieldnames you have used in expressions, to prevent errors when printing the document. Of course, you can also change the expressions to fit the new fieldnames.

Using an ODBC Connection

To open an ODBC connection, an ODBC driver needs to be installed on your Macintosh. The command "Open ODBC-connection..." in the "Database" menu is automatically enabled in that case. For information about how to handle the ODBC connection, see the documentation that should be supplied with your ODBC driver.

Using a Text File as Database

The following rules apply when using a text file as database:

- The first line in your text file should contain the fieldnames.
- The fieldnames may only contain alphanumeric characters and the underscore.
- The variable records should be listed on the following lines.
- The field separator is either a tab, a comma, a space, a semicolon or a user-defined character (not alphanumeric or underscore) and cannot be used in field contents.
- If a field contains a field separator character, it should be enclosed in double quotes in order to be treated as one string.
- Two adjacent field separators imply that an empty field is placed between them.
- The record separator is a newline character.
- Any missing fields at the end of a line are left empty.

Opening a Text File as Database

1 Select "Convert Text File..." from the "Database" menu. The following window pops up:

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2 Click the "Options..." button. The following window pops up:

Select separation mark :
🔾 Tab
🔘 Comma
🔘 Space
🔘 Semicolon
🖲 Other 🛛 🖊
Cancel OK

3 Select the character that is used as a separator in the text file and click the "OK" button.



If you click "Other", the edit box next to that option is enabled. The most common used separators are tabs and commas.

4 Select a text database file and click "Open...". The Database window pops up:



5 Select the appropriate command from the "DOS-table" submenu in the "Database" menu. The selected table is used when converting a DOS text database to DBF format.

Linking Database Fields to Variables

- 1 Select "Show Database" and "Show Variables" from the "Windows" menu.
- 2 Select a database field in the Database window.
- 3 Drag the field to the Variables window.
- 4 Drop the database field on the PrintShop Mail variable you wish to link it to. The first variable of the database file appears in the Result column of the Variables window. You can scroll through the variable data by clicking the arrows, or entering the desired record number and pressing the return key.





When you drop a database field on a variable that was already linked, you will be asked for confirmation before the link is overwritten.

Instead of dragging a database field to the variables window and dropping it on a variable, you can also drop the database field on the document. A new PrintShop Mail variable will be created with the same name as the database field. This variable will appear in the variables window, with the database field in its calculation column.



Filtering Database Records

PrintShop Mail allows you to filter the database to which you wish to link your document. This implies that only a selection of the database records is going to be used, e.g. only the records with Gender "f".

Defining a Filter for the Database

1 Open the "Database" window and click the "Edit" button next to the "Filter" checkbox. The "Database-filter" window pops up:

Database-filter	
Gender = "f" Components Favorites Image: All String String ASCO Image: All Address1 Number ASCO Date COUNTER(,,,,) Date CHRO Barcode CODE1280 COUNTER() Image: All String String Date CODE1280 COUNTER() Image: All String Stri	•
Verify Cancel OK)

- 2 Enter an expression of which the result can only be true or false.
- 3 Select "Filter" from the Database menu or click the "Filter" checkbox in the Database window to apply your filter settings. Selecting and deselecting the filter option toggles between using the entire database or using only the filtered records. The filter option is enabled only when a database is currently opened.

Storing and Retrieving Filter Favorites

If you are using the same filters for different PrintShop Mail documents or for different databases, you may want to store the filter definitions in the favorites. When you have filter expressions stored in the favorites, you can reuse them without having to create them again every time you need them. The filter expressions are stored in a file named "Filter favorites", which is stored in the folder where the PrintShop Mail application program is also stored.

- 1 To store a filter expression (or part of it) in the filter favorites, open the Database Filter window (as shown in the previous paragraph) and create the filter expression.
- 2 Click on the "Favorites" tab. The expression will remain visible, and the favorites section of the Database Filter window is shown:



3 Click on "New" to store the current expression as a favorite.

Working with Databases in PrintShop Mail

- 4 The new favorite will be listed in the favorites list to the left, and the name and expression of the currently selected favorite are shown to the right.
- 5 The name of a new favorite is automatically generated, but may be changed in the "Name" field to the right.
- 6 If you want to change the expression that is stored in a favorite, you can edit the expression in the window to the right and click "Save". As long as you have not saved the changes yet, you can click "Revert" to return to the previously saved version.



Note that several favorites in the list may have the same name. This does not cause any problems for PrintShop Mail, but it may be useful to choose distinctive names.

- 7 To remove a favorite from the favorites list, select it in the list and click "Remove".
- 8 To retrieve a favorite and use it in the filter expression, make sure the text cursor in the expression window is at the right position and double-click the favorite in the favorites list. The expression is now inserted in the filter expression window.
- 9 The filter expression can still be edited, and you can change to the "Components" tab of the Database Filter window without losing any information. When you have finished creating the filter expression, press "OK" to activate the filter.

Importing Filter Favorites

Filter favorites are stored in a file named "Filter favorites" in the folder where the PrintShop Mail program is also stored. If you have filter favorites defined in earlier versions of the program, you can import these by opening the old Filter favorites file in the new version of PrintShop Mail. There are different ways of doing this:

- 1 Double-click the "Filter favorites" file in the Finder. If the PrintShop Mail application is not running yet, it will be opened. If the application was already running, it is activated.
- 2 Drag the "Filter favorites" file icon onto the PrintShop Mail application icon. If the PrintShop Mail application is not running yet, it will be opened. If the application was already running, it is activated.
- 3 If you have not opened a PrintShop Mail document yet, you can use the "Open..." command in the "File" menu to open the "Filter favorites" file. Since no PrintShop Mail document is opened, no document window will appear and the "Open..." command in the "File" menu remains enabled.

The favorites from the opened file will be added to the already defined filter favorites, and stored in the Filter favorites file of the PrintShop Mail application when you quit the program.



Note that, after importing, several favorites in the list may have the same name. This does not cause any problems for PrintShop Mail, but it may be more useful to change some of the names to make them distinguishable.

Sorting the Database

You can define a large number of sort keys, which are applied to the opened database. Defining the sort keys and their precedence is done independently of switching sorting on or off, as explained below.

1 Open the "Database" window and click the "Edit" button next to

Sort Records				
CatData.tab.DBF		Sort order		
Address1 Address2 Address3 Cat_name Cat_race Contact First_Name Gender Last_Name	Clear all Clear all Clear column Sort Ready	<pre> tLast_Name Address3 Address2 Address2 </pre>		
) Ascending		

- 2 Select a database field in the list to the left and press the "Add" button to copy it to the Sort Order list to the right. Double-clicking the field name has the same effect. Repeat this with all the fields that you want to use as further sort keys.
- 3 You can specify the sort order per selected field, which is either Ascending or Descending by selecting a sort key in the list to the right and dragging it up or down, or remove a sort key by selecting it and clicking "Clear" (or double-clicking the sort key).
- 4 Press "Sort" to sort the database and "Ready" to close the dialog .
- 5 You can switch between sorting and not sorting the database by checking or unchecking the "Sort" option in the Database window
Working with Expressions in PrintShop Mail

Expressions and Data Types

An expression is a combination of database field names, numbers, character strings, functions and operators. Expressions are defined for variable text and variable image elements. When printing a PrintShop Mail document, the expressions are solved for each of the selected records in the database, and the resulting texts or images are printed.

Database fields, functions and expressions can be classified into one of the following data types:

Data type	Description
Character data	All keyboard characters not used in calculations.
Numeric data	Numbers, decimal points and plus or minus signs used in calculations.
Logical data	Data indicating a value that is "true" or "false".

The functions defined in PrintShop Mail require parameters in specific data types. Conversion between data types is possible. The data types returned by the functions of PrintShop Mail are determined by the function group to which they belong. See "Function Arguments" on page 108 for a description of the arguments and return data types.

Function Groups and Data Types

The table below lists all function groups with the functions belonging to that group and the return data types:

Group	Functions	Return
String	CHR, LEFT, LOWER, LTRIM, MID, PROPER, RIGHT, RTRIM, STR, TRIM, UPPER	character strings
Number	ABS, ASC, COUNTER, CCOUNTER, INT, LEN, MOD, POS, ROUND, SGN, VAL	number values
Date	DATE, TODAY	date string
Barcode	CODE39, CODE128, EAN13, EAN8, ITF, POSTNET, UPCA, UPCE	barcodes
Logical	AND, IF, NOT, OR	true or false

Function Arguments

Arguments are a symbolic representation of the type of information a particular function requires. Each function in the following chapters is followed by the arguments it needs to obtain a result. Arguments must be separated by commas. The table below gives an overview of the arguments used in the following chapters:

Argument	Description
<c>, <c1>, <c2></c2></c1></c>	Expressions of type "Character data"
<n>, <n1>, <n2></n2></n1></n>	Expressions of type "Numeric data"
<l>, <l1>, <l2></l2></l1></l>	Expressions of type "Logical data"
<d></d>	Date format string

Date Format Strings

The table below lists the characters used in a date format string:

Capital	Description	Example
D	Day number	2
DD	Day number with leading zero	02
DDD	Abbreviated day name	Mon
DDDD	Full day name	Monday
М	Month number	9, 11
MM	Month number with leading zero	09
MMM	Abbreviated month name	Sept
MMMM	Full month name	September
YY or Y	Abbreviated year number	99
YYYY or YYY	Full year number	1999



If the date format expression is an empty string Date(""), the date format is determined by the settings in the "Date Format" section of the "Preferences". See "Specifying the Date Format" on page 93 for details.

Working with Expressions in PrintShop Mail

Defining an Expression for a Variable

1 Double-click the variable in the Variables window for which you want to define an expression. The Expression window pops up:



2 Choose the type of function by clicking one of the function group buttons to the left. The functions in that group are listed in alphabetical order.



When you click a function once, the function name and the arguments to be used are shown.

- 3 Double-click a function to insert it into the expression. It is inserted at the point where the text cursor is placed.
- 4 Select operators from the keypad, where needed. Click once to insert them at the current position of the text cursor.

5 Select database fields from the list to the right. Double-clicking the field inserts it into the expression at the current text cursor position.

Operators

The table below gives an overview of the operators that can be used in expressions:

Operator category	Operator	Description
	()	Groups expressions
Logical operators	NOT	Logical negative
Logical operators	AND	Logical AND
	OR	Logical inclusive OR
	*	Multiplication
Arithmatia aparatara	/	Division
Antimetic operators	+	Addition
	-	Subtraction
	<	Less than
	>	Greater than
Relational operators	=	Equal to
neialional operators	\diamond	Not equal to
	<=	Less than or equal to
	>=	Greater than or equal to
String operator	+ ¶	Concatenate strings Return

Working with Expressions in PrintShop Mail

Using Favorites in Expressions

To help creating expressions, a list of favorites is maintained, from which you can enter complete expressions by double-clicking. You add favorites and insert them in the current expression from the "Favorites" section in the Expression window, as shown here:



Click "New..." to enter a new favorite. The current expression is entered into the definition window to the right. You can edit the name and the definition before saving the favorite. To remove a favorite from the list, select the favorite and click "Remove".

To enter a favorite into the expression, double-click it in the list to the left. The favorite is entered at the current position of the text cursor. You can edit the expression and enter more than one favorite. The expression remains the same when switching between the "Components" and "Favorites" sections of the "Expression" window.

Importing Expression Favorites

Expression favorites are stored in a file named "Expression favorites" in the folder where the PrintShop Mail program is also stored. If you have expression favorites defined in earlier versions of the program, you can import these by opening the old Expression favorites file in the new version of PrintShop Mail. There are different ways of doing this:

- 1 Double-click the "Expression favorites" file in the Finder. If the PrintShop Mail application is not running yet, it will be opened. If the application was already running, it is activated.
- 2 Drag the "Expression favorites" file icon onto the PrintShop Mail application icon. If the PrintShop Mail application is not running yet, it will be opened. If the application was already running, it is activated.
- If you have not opened a PrintShop Mail document yet, you can use the "Open..." command in the "File" menu to open the "Expression favorites" file. Since no PrintShop Mail document is opened, no document window will appear and the "Open..." command in the "File" menu remains enabled.

The favorites from the opened file will be added to the already defined expression favorites, and stored in the "Expression favorites" file of the PrintShop Mail application when you quit the program.



Note that, after importing, several favorites in the list may have the same name. This does not cause any problems for PrintShop Mail, but it may be more useful to change some of the names to make them distinguishable.



Alphabetical list of Functions

Barcode functions are listed in the Appendix.

ABS(<N>)

ABS returns the absolute value of <N>.

ABS(-25) = 25

$ASC(\langle C \rangle)$

ASC translates the first character in <C> into its ASCII value.

ASC("A") = 65ASC("Alpha") = 65

CCOUNTER(<N1>, <N2>, <N3>, <N4>, <C>)

CCOUNTER returns a counter value determined by the arguments: <N1> is the start value for the counter <N2> is the end value for the counter (inclusive) <N3> is the step value (the value that is added with each count) <N4> is the number of digits for the counter value <C> is the fill character that should be used

If the end value is reached before the last record is printed, the counter starts again, as shown in the second example:

CCOUNTER(5, 100, 2, 3, "0") = 005, 007, 009, ... CCOUNTER(1, 6, 2, 1, "") = 1, 3, 5, 1, 3, 5 ...

CHR(<N>)

CHR translates the ASCII value <N> into a character.

CHR(65) = A

COUNTER()

COUNTER returns the current value of the numerator. The settings for the numerator are defined in the Preferences dialog. See "Defining the Counter Characteristics" on page 91.

COUNTER() = 0001COUNTER() = 0002

DATE(**<C**1**>**, **<C**2**>**)

DATE can be used to customize date formats. DATE takes the date represented in <C1> and returns it reformatted according to the date format string <C2>. If <C2> is empty, the date formatting is determined by the settings in the Preferences.

```
DATE("19990607", "") = 6/7/99
DATE("19990607", "MM/DD/YY") = 06/07/99
DATE("19990607", "DDD, MMM D, YYYY") = Mon, Jun 7, 1999
DATE("19990607", "MMMM D, YYYY") = June 7, 1999
DATE("19990607", "anno domini YYYY") = anno domini 1999
```

IF(**<**L**>**, **<e**xpr1**>**, **<e**xpr2**>**)

IF returns the value represented in <expr1> if the logical expression <L> is true; if <L> is false, the value represented in <expr2> is returned. The expressions used for <expr1> and <expr2> must be of the same type. The result from the IF function is converted to a string.

IF(1>2, "Right", "Wrong") = Wrong

$INT(\langle N \rangle)$

INT returns the integer part of a numeric expression.

INT("123.45678") = 123

$LEFT(\langle C \rangle, \langle N \rangle)$

LEFT returns a string containing the $\langle N \rangle$ leftmost characters in the character string $\langle C \rangle$. If $\langle N \rangle$ is larger than the length of $\langle C \rangle$, the complete string $\langle C \rangle$ will be returned. If $\langle N \rangle$ is less than or equal to zero, an empty string is returned.

Note that text in an expression must be enclosed in double quotes, otherwise it will be interpreted as a database field.

```
LEFT("PrintShop Mail", 5) = Print
LEFT(Gender, 3) = fem
```

LEN(<C>)

LEN returns the length of the character string <C>.

```
LEN("PrintShop Mail") = 14
LEN(First_Name) = 5
```

LOWER(**<C>**)

LOWER converts all letters in the string <C> to lowercase.

LOWER("PrintShop Mail") = printshop mail

LTRIM(<C>)

LTRIM removes all leading spaces from the string <C>. Using this function you can remove the space after a database field when that field is empty, as shown in this example:

```
LTRIM(Gender & " ") & LTRIM(First_name & " ") & Last_name
```

MID(< C >, < N1 >, < N2 >)

MID returns a section of the string <C>, starting at character position <N1> and with length <N2>. The string <C> starts at position 0.

```
MID("PrintShop Mail", 6, 4) = Shop
```

MOD(<N1>,<N2>)

MOD returns the remainder resulting when dividing <N1> by <N2>.

MOD(7, 3) = 1MOD(2, 3) = 2

POS(**<**C1**>**, **<**C2**>**, **<**N**>**)

POS searches for the substring <C2> in <C1> and returns the starting position of <C2> within <C1>. With the number <N> you can specify the character position in <C1>, where POS should start looking for the substring <C2>.

```
POS("proprietory", "pr", 1) = 1
POS("proprietory", "pr", 2) = 4
```

PROPER(**<C>**)

PROPER converts the first character of every word in string <C> to uppercase and all other characters to lowercase.

PROPER("pRintsHOP MAIL") = Printshop Mail
PROPER("Atlas software BV") = Atlas Software Bv

RIGHT(**<C>**, **<N>**)

RIGHT returns a string containing the <N> rightmost characters in the character string <C>. If <N> is larger than the length of <C>, the complete string <C> will be returned. If <N> is less than or equal to zero, an empty string is returned.

Note that text in an expression must be enclosed in double quotes, otherwise it will be interpreted as a database field.

```
RIGHT("PrintShop Mail", 4) = Mail
RIGHT(Address3, 3) = nia
```

ROUND(<N>)

ROUND rounds the number <N> to an integer value (no decimals).

ROUND(123.456) = 123ROUND(123.5) = 124

RTRIM(**<C>**)

RTRIM removes all trailing spaces from the string <C>.

```
RTRIM("PrintShop ") = PrintShop
```

$SGN(\langle N \rangle)$

SGN indicates whether the result of <N> is positive or negative.

SGN(-100) = -1 SGN(0) = 0SGN(100) = 1

STR(<N>)

STR converts the numeric expression <N> into a character string.

STR(5*2) = 10

TODAY(<D>)

TODAY returns the current system date, formatted according to the date format string <D>.If the string is empty, the data formatting is determined by the settings in the Preferences.

```
TODAY("") = 6/7/99
TODAY("MM/DD/YY") = 06/07/99
TODAY("MMMM DD, YYYY") = June 07, 1999
```

TRIM(**<C>**)

TRIM removes all leading and trailing spaces in the string <C>.

TRIM(" PrintShop ") = "PrintShop"

UPPER(**<C>**)

UPPER converts all characters in the string <C> to uppercase.

UPPER("PrintShop Mail") = PRINTSHOP MAIL

VAL(< C >)

VAL converts the character expression <C> into a number.

VAL("99") = 99

Working with Expressions in PrintShop Mail

Examples of Using Expressions

Placing "Mr." or "Mrs." before the Name

You may want to open your letter with "Dear Mr. Smith," or "Dear Mrs. Jones". If you have a database field containing the addressee's gender, you can achieve this effect by using this expression:

```
"Dear " & IF(Gender = "m", "Mr. ", "Mrs. ") &
Last name & ","
```

To avoid mistakes when the gender is not available (or written with capitals), you may want to extend the expression as follows:

```
"Dear " & IF(LOWER(Gender)="m","Mr.",
IF(LOWER(Gender)="f","Mrs.","Mr./Mrs."))
& Last Name & ","
```

Note the inclusion of spaces behind most strings in the above examples; this saves having to add separate spaces to separate these strings from field contents.

In the CatMetics example, the placed EPS image already contains the phrase "Dear Mr./Mrs.,". Instead of changing the original layout document, you can put a variable text object on top of the phrase, choose the "Knockout" mode from the Item menu, and apply the desired background color to the object (white in this case). In this way, the original phrase is hidden behind the newly created text object.

Building a Special Counter

To add a serial number to your documents, you can use either the COUNTER or the COUNTER function. The settings for the COUNTER function are defined in the Preferences (see "Defining the Counter Characteristics" on page 91). The following example uses the CCOUNTER function to build a more complicated counter, consisting of a character and a digit, with the aim to create the sequence:

A1 - A2 - A3 - A4 - B1 - B2 - B3 - B4 - C1 - ...

The counter actually consist of two CCOUNTER functions which are concatenated. The first one is the more complicated one, since it should yield letters rather than numbers. The CCOUNTER needs to be initialized at the ASCII value for "A" and use four steps to increment the value to the next ASCII value. This is achieved by the following expression:

CCOUNTER(ASC("A"), ASC("Z"), 1/4, 2, "")

Note that the number of digits is two, since this function call results in ASCII numbers, which take two digits in the range "A" to "Z". The option for leading zeroes is not important in this case. Since the function returns a string rather than a number, and we need the ASCII number to convert it to the letter, we need to use two conversions:

CHR(VAL(CCOUNTER(ASC("A"), ASC("Z"), 1/4, 2, "")))

Then the result needs to be concatenated with a simple counter which runs from 1 to 4 repeatedly, as shown in the full expression:

```
CHR(VAL(CCOUNTER(ASC("A"), ASC("Z"), 1/4, 2, ""))) & CCOUNTER(1, 4, 1, 1, "")
```

Assigning a Color to a Variable Depending on Its Value

You can assign a text color to a variable text object depending on its value, e.g. to write negative numbers in red and positive in black. To achieve this result, you need to define two adjacent variables in the same text object, and assign the different colors to them. As a suggestion, you could call them <code>@Red@</code> and <code>@Black@</code>.

Then you assign the expression for the variables as follows:

```
@Red@: IF(Number < "0" ,Number ,"")
@Black@: IF(Number < "0" ,"" ,Number)</pre>
```

Using a Database Field for a Picture Object

The CatMetics example contains pictures of cats of different races. Also, the database contains the race of the addressee's cat (in most cases this field is filled in). This makes it easy to add a picture of the addressee's cat (or at least a very similar cat) to the mailing, using a safety construction for records that do not contain a race indication:

IF(Catrace = "", "Domestic",Catrace) & ".eps"

The images "Domestic.eps", "Siamese.eps" etc. must either be available in the database folder, or in the folder that is indicated in the Preferences for variable images. See "Locating Variable Images" on page 92 for details.

Comparing Dates in a Conditional Expression

In the CatMetics example we have also included a personal note to the addressee, which uses a date-dependent expression to either say hello to the addressee's cat, or congratulate the addressees on their cat's birthday. The latter is only printed if the mailing is printed in the month of the cat's birthday.

IF(DATE(Birthday,"M")=TODAY("M"),"Congratulations on "
& IF(Cat_name<>"",Cat_name,"your cat") & "'s birthday",
"Say hello to "& IF(Cat_name<>"",Cat_name,"your cat"))

The first line contains the comparison of dates. The data string in the database and the date returned by TODAY are reformatted to only include the month. If the months are equal, the birthday message is printed. Otherwise, the phrase is replaced by "Say hello to ...". In both cases, the cat's name is used when available in the database.

Working with Expressions in PrintShop Mail

Printing PrintShop Mail Documents

Checking your PrintShop Mail Document

Displaying the Font Usage

You can check which fonts are used in your document (and whether all used fonts are available on your Macintosh) by selecting "Show Fonts" from the "Windows" menu. The Fonts window will pop up:



- · Fonts available on your system are check-marked.
- The other fonts still have to be installed on your system.

Performing a Layout Check

When printing a document, PrintShop Mail checks the layout before the document is sent to the printer. The layout check detects errors and displays them in a so-called "pre-flight" window. You can also perform a layout check independent of printing. In that case, you can determine which checks need to be performed.

1 Choose the "Layout Control" in the "layout" menu



2 In the dialog window that opens, select the types of checks you want to perform and click "Verify":

	Layout Control 📃 🗧
─ Layout	☑ Fieldnames in Expressions
Records I Missing Fonts I Missing Images	☑ Text Boundaries
?	Cancel

If errors are found in this so-called "pre-flight" process, a window opens with the error messages:

			Warnings	DE
			4 items	
Туре	Pagenn	Recordnr	Specification	-
Bounds	1	-	Object is placed beyond printable area.	
Bounds	1	5	Text does not entirely fit in its bounding box.	
Link	1	-	Variable "NAME" is not linked.	
Link	2	-	Variable "Picture 1 " is not linked.	-
) 47

Click on a message to see where the error is located.

Specifying a Bleed Margin and Cropmarks

Cropmarks are used when further finishing needs to be done on the printed documents. If the paper size is not the same as is used in the printer, crop marks need to be set to allow exact positioning of cutting devices. The bleed margin is used to allow the printable area to cover the entire page (after it has been cut to the desired size).

1 Choose the "Preferences..." command in the "Edit" menu and select the "Impositioning" section in the Preferences dialog:

	Preferences
Program	Bleed margin Add to Job 🜩 Width: 5,0 mm
Printer	Cropmarks
Impositioning	Overlay length: [10,0] mm
Numerator	Automatic positioning

- 2 Specify the width of the bleed margin, i.e. an extra margin especially meant for cropmarks. If you set the bleed margin to "Add to Job", the paper used in your printer should be larger. Choose "Include in Job" if you want to subtract the bleed margin from the printed document.
- 3 Check the "Cropmarks" option and specify the Gap size, i.e. the distance between the cropmark and the edge of the document.

Printing PrintShop Mail Documents

Adding or Removing Folding Lines

Folding lines are printed on the visible part of the document (the part that will remain when the document is cut to the right size, i.e. they are also printed when there is no bleed margin). They are printed on either side of the document, and on all pages.

Adding a Folding Line

- 1 Select "Show Layout Rulers" from the Windows menu.
- 2 Click the arrows at the right-hand side of the top ruler.



- 3 Select "Folding Lines" from the pop-up menu.
- 4 For a vertical folding line, click in the vertical ruler (at the left side of the document window) and drag the mouse onto your document. For a horizontal folding line, click in the horizontal ruler (at the top of the document window) and drag the mouse downward.
- 5 The folding line appears while you are dragging the mouse. Release the mousebutton when you have reached the desired position for the folding line.
- 6 To remove a folding line, place the mouse on top of it until the cursor changes shape. Then drag the folding line back to the vertical or horizontal ruler.
- 7 In the Preferences window, you can set the length of the folding lines. This is the length of the folding lines as they will appear on the final document (after it has been cut to size).

Specifying the Page Setup

- 1 Select the correct printer driver in the "Chooser". See "Configuring the LaserWriter Driver" on page 13.
- 2 Select "Page Setup" from the "File" menu. The Page Setup window pops up, showing the current settings:

LaserWriter 8 Page	Setup	8.3.3	ОК
	Paper: US Letter ▼		Cancel
. M .	Layout: 1 Up 🔻		
53	Reduce or 100 %		Options
	Enlarge:		Help
	Orientation:		

- 3 Select the paper size from the paper drop-down menu.
- 4 If you need a non-standard paper format, choose "Custom" and click on the page image to enter the exact width and height.

LaserWriter 8 Page	Setup 8.3.3	ОК
Paper size (in) Width: 8.5 Height: 11 Offset: 0 Margins (in) Left: 0.42 Top: 0.43 Right: 0.42 Bottom: 0.43	Paper: Custom V Layout: 1 Up V Reduce or 100 % Enlarge: Orientation:	Cancel Options Help

You can change the unit ("cm" or "in") to specify paper size and margins by simply clicking on the paper image.

- 5 Select the layout for your document by selecting an option from the layout drop-down menu. And specify a scaling factor and page orientation.
- 6 You can save your own default values by pressing the 'Alt'-key and simultaneously clicking 'OK

Printing PrintShop Mail Documents

Splitting Printjobs

When printing documents from PrintShop Mail, you have the option of splitting the printjob into smaller jobs. This is described below.

1 Choose the "Print" command from the "File" menu:

– Range –	hnology :	Optimized PostSc	ript	
Records:	🖲 All	From:	1	to 25
🗌 Split job	every		1000	pages
Printer-pr	eferen	ces		
Pages:		All (1 - 1)		Change
Destination	1:	Printer		
Subset finis	shing:	Not support	ed for the s	elected PPD

- 2 Check the option "Split job every" option and enter the number of pages for each job.
- 3 If you are printing a multipage document, the split job size should be dividable by the number of pages in the document. If this is not the case, a dialog will appear allowing you to round the split job size to a multitude of the number of pages in the document:

Invalid split	job size
Current split job size: 1000	
Select a split job size that i number of pages in the cur	is divisible by the ent range (3):
999	
Q 1002	ОК

4 Select one of the offered choices and click "OK".

Printing PrintShop Mail Documents

Layout Conditions

Layout conditions enable you to skip or blank out certain pages from a multipage document, depending on variables in your database. The layout conditions are listed in a separate section of the "Variables" window. To open this window with the correct tab shown, choose the "Show Layout Conditions" command from the "Windows" menu.

🗆 Yariables 🛛 🗄						
record 1 of 10 records						
Yariables Layout Conditions						
						_
Layout	Name	Calculation		Result		
1		PRINT		PRINT		
2		PRINT		PRINT		
						-
					• •	47

Each layout represents one page in the master document and has exactly one expression, which determines whether the page should be printed, blanked out or skipped. Blanked out pages result in a page being passed through the printer without anything printed on it.

The expression for each layout is built in the same way as expressions for variable items (see "Linking Database Fields to Variables" on page 101), but the result should be PRINT, SKIP or BLANK. Invalid expressions will not be accepted. The default expression for each layout is PRINT (as shown for layout 1 in the above example).



Fiery FreeForm, Splash DiamondMerge and PrintStreamer do not support Layout Conditioning, because these technologies are based on a so-called master document. The master document demands a constant number of pages per record, so the expression 'SKIP' cannot be used.



Example: Gender-Specific Layouts

Imagine a fashion shop producing a mailing to announce their new summer collection. Following the generic first page, they want to include a different second page with offers for men and women. Also, for customers who live outside the immediate area, they include a special page that contains a lunch voucher.

Their database of regular customers contains gender information, which can now be used to print the correct second page for each of their customers. Both layouts are added to the same document, but they are skipped or printed according to the gender ("M" or "F") found in each individual record. If no gender is found, both pages are printed.

The last page, which contains the lunch voucher, is skipped if the customer lives in the same city. The layout conditions for this example would look like shown here:

🗆 🛛 🛛 🕮 Yariables							
[⊲ ⊲ ▶ ▶ record 1 of 10 records							
Yariables Layout Conditions							
ŕ		_					
Layout	Name	Calculation		Result		П	
1		PRINT		PRINT		1	
2		IF(GENDER +> "M", PRINT, SKIP)		SKIP			
3		IF(GENDER <> "F", PRINT, SKIP)		PRINT			
4		IF(CITY="Harderwijk",SH	(IP,PRINT)	SKIP			
						-	
					• •	11	

Using SKIP with Layout Repetition

If you are using layout repetition to print multiple documents on each page ("Creating Address Labels for the Mailing" on page 48), you should be aware that using the SKIP expression may change the sequence of records on the page. In some cases, PrintShop Mail will treat the SKIP as a BLANK to avoid problems with automated cutting and sorting.

Using multipage layouts with layout repetition and layout conditions should be thorougly tested before running large printjobs.

Similar problems may occur with full-page layouts, when the input for the printer is organized in a specific manner (e.g. one page with preprinted company letterhead followed by two blank pages). When a layout is skipped in the printout, no paper is used for that layout and the sequence is influenced.

If you want to keep the sequence of printed records but still want to avoid printing layouts with invalid data, you should use BLANK instead of SKIP. This will use the same space as a PRINT, without actually printing anything in that space.

Print Record

Open the dialog under the menu option "File - Print Record" This command prints the current open file with the current record, without printing the text "PrintShop Mail" across the middle of the page. This doesn't cost any credits.

PPML

PPML is short for Personalized Printing Markup Language. This is a standard defined by manufacturers of printers and printing software, allowing personalized printing to become more flexible, easier to use and more affordable to produce. A PPML file describes the entire personalized printing job and contains all necessary elements to print the contents (layouts and selected variable data).

Producing a PPML file in PrintShop Mail 4.3 is done by selecting the "Export to PPML" command in the "File" menu. This makes a dialog window appear, allowing you to set options for the PPML that will be produced.

ed Technology : PF	ML			
Record Rang	e			
Records:	IIA 🛞	From:	1 to 10	D
Page Range				
Pages:	IIA 🖲	From:	1 to 4	
Image Option	15			
🔘 Include lo	al Images		O Export to PPML :	zip
Copy loca	l images		O None	
	Verify	& Save	Cancel	Save

Image Options

Include local images

This causes the image references to be stored as local references (relative to the location of the layout description). When the PPML file is transported to another computer before being printed, the images are searched locally on that computer. This will reduce the size of the PPML file.



Note that the images should be available on the computer from which the printjob is started. This may be used when the PPML was produced and transported earlier and changes have been made which do not affect the images.

Copy local images

This causes copies of all used images to be placed in the same folder where the PPML file is created. This option is useful when producing a PPML for the first time, or when changes in the layout affect the used images.

Export to PPML Zip

This option is used for specific printers, which expect a PPML-Zip file. The file contains the PPML file and all image files, so you can be sure that all necessary files are available.

None

In this case, no images will be copied but all references include the marker "http". This option can be used if you can be sure that the computer on which the printjob will be executed has network access to the computer on which the images are located.



Using the Open PrePress Interface

PrintShop Mail supports the Open PrePress Interface (OPI) version 2.0. This allows the user to link low resolution images in the layout of PSMail documents and have the OPI server replace these with high resolution images when printing. This feature yields an even faster spool and print speed when high resolution variable images are used. In the "File - Print" dialog you can mark the checkbox to use OPI, as shown below:

Range	chnology :	Optimized PostSo	ript	
Records:	IIA 🖲	From:	1	to 25
🗌 Split jol	o every	,	1000	pages
Printer-p	referen	ices		
Pages:		All (1 - 1)		Change
Destinatio	n:	Printer		
Subset fini	shing:	Not support	ed for the s	elected PPD

Note that, when using the CreoScitex VPS print technology, the "Use OPI" option is replaced by "Use APR". APR is the "Automatic Picture Replacement" solution that is available in CreoScitex VPS systems. For all practical matters, APR is equivalent to OPI. See "CreoScitex VPS" on page 145.

Printing PrintShop Mail Documents

Using the HotFolder

PrintShop Mail 4.3 allows you to automate the printing process to a high extent. Instead of opening a document in PrintShop Mail and selecting the "Print" command, the program can be told to monitor a so-called HotFolder and execute printjobs as soon as the necessary ingredients (a PrintShop Mail document and a database file) are found there.

This feature can be used to allow more than one user to "drop" their database files into the HotFolder, causing a printjob to start without further interaction (and without even needing access to the PrintShop Mail program from their computers).

Initializing the HotFolder

- 1 Close all PrintShop Mail documents but don't exit the program.
- 2 Open the Preferences and select the options group "HotFolder":



Printing PrintShop Mail Documents

- 3 Select the HotFolder by opening a Browse dialog and locating the desired folder.
- 4 With all PrintShop Mail documents closed, choose the "Monitor HotFolder" command from the "File menu.

Monitoring HotFolder				
HotFolder: Macintosh HD :Mailings				
Currently processing: Database:	Cancel			

5 To stop the monitoring and automatic printing of the document, click on the "Cancel" button.

Using the HotFolder

- 1 Create the PrintShop Mail document and store it in the HotFolder. Since there will not be any user interaction with the program when the document is automatically printed, you should check the design and verify the expressions used in it thoroughly before saving the document.
- 2 Drop a database file (with extension "DBF") into the HotFolder. Within 30 seconds, PrintShop Mail combines the database with the available PrintShop Mail document and starts the printjob. In addition to the HotFolder itself, three levels of subfolders can be used to drop database files in. This may be useful if multiple users want to produce mailings with different database files.

- 3 After PrintShop Mail has printed the document, the database file is moved to a folder "PSMAIL_PRINTED", which is created next to the HotFolder. The PrintShop Mail document remains in the same location and can be used again (by simply dropping another database file into the HotFolder).
- 4 PrintShop Mail writes a log of its actions into a logfile. Since the timestamp of the logfile is automatically adjusted everytime when PrintShop Mail becomes active, this timestamp can be used to check whether PrintShop Mail is still running or not. If no database file was found (and no printjob was started), the logfile is still updated. The logfile is located in the folder, in which the HotFolder is also placed.

Appendix

Supported Image File Formats

PrintShop Mail uses QuickTime (version 4.0 or higher) to handle image files. The supported image file formats therefore depend on the version of QuickTime you have installed on your Macintosh. For a list of supported image file formats you should visit Apple's QuickTime website.

QuickTime version 5.2 supports QuickDraw PICT, QuickTime Image, MacPaint, Photoshop (versions 2.5 and 3.0), GIF, JPEG, TIFF, Amiga IFF, PCX, Pixar, Scitex CT and Targa.

Appendix

Supported Print Technologies

CopyPage

This option uses the PostScript CopyPage command to prevent the master page from being rerastered with every copy. Using this technology limits you to printing one personalized document page per printjob. Also, the use of transparent objects is not supported.



Standard PostScript

This option does not use any special mechanism to optimize process time. It is meant for systems that do not support any of the other options.



Optimized PostScript

This option uses the PostScript Level 2 (Forms) technology to reach a shorter process time. It works on virtually all printers but the speed depends on the complexity of the printed document.

Appendix
The Cache size affects the caching of the RIP. A larger cache size may increase performance, but uses more printer memory.



Fiery FreeForm

This option is available on Fiery ZX RIPs from EFI.



These RIPs use a two-step process. First, you print one single record with the Master option set. Then the Variables are printed, using the same form number as you specified when printing the Master. This allows you to keep different Masters in the RIP's memory.

Instead of using the two steps, you can also choose to print Master and Variables in one go, by choosing the "All" option in the print dialog, as shown here:

- FreeForm settings			
Send:	€ All	🔾 Master (101)	🔾 Variables

Appendix

Fiery FreeForm 2

This new printing technology is available on Fiery ZX RIP's from EFI. It is a two-step process. First, set the option to "Print Master" and print one record. This uses no credits. Then set the option to "Print Variables" and print the desired records. It will use the design of the master document printed before. This allows a high speed in RIP-ing the document. Fiery FreeForm 2 supports "Layout Conditions" (see page 131), and you can also see which masters have been sent to the RIP.



PrintStreamer

This printing technology sends two separate files to the RIP, one master file and one with variable data.



Appendix

CreoScitex VPS

This option is available on a Scitex SX3000. It makes use of the variable data system that is built into these RIPs.



This technology includes a number of subset finishing options (such as stapling and binding) that become available in a separate dialog that is shown when printing a document.

One further option for this printing technology is Automatic Picture Replacement (APR). This is basically the same as the OPI technique that is used with other printers (as described on page 136). Image files are sent to the RIP separately; when the print job is started, only the references to the images are spooled.

The APR option is switched on or off in the print settings dialog that opens when selecting the "Print" command from the "File" menu.

Appendix

Splash DiamondMerge

This is the technology used on DocuPress Ultra systems from Splash. It requires the same two-step process as is used for Fiery FreeForm. Use the Create Master option to print the master page and use the same form number when printing the variable page elements (with the option Use Master Settings.



The print options are very similar to the ones for Fiery FreeForm.

Splash VI

This is the Variable Information solution by Splash. Use this option if you have a Splash system different from the DocuPress Ultra (which uses the DiamondMerge technology).



Appendix

AHT

This is the variable data printing solution built into AHT printers.



Appendix

Barcode Generators

PrintShop Mail supports printing barcodes, as explained in "Integrating Barcodes in PrintShop Mail" on page 83. PrintShop Mail 4.3 comes with barcode fonts, which are automatically installed with the product. Printing the string in the correct barcode font gives the desired result. The currently available barcode generators are listed below.

CODABAR (<C1>,<C2>,<C3>,<C4>)

The <C1> should consist of numeric characters (no alphabetic characters) of variable length. The start character <C2> can be a,b,c,d,t,n,*,e. The stop character <C3> can be the same as the start character. If this character is not entered, this function will take the start character also for stop character. The <C4> parameter is a boolean to indicate if you want a check digit (TRUE) or not (FALSE). The check digit is a result of the modulus 16 operation applied to the value in <C1>.

CODE39 (<C1>, <C2>)

This barcode allows all ASCII characters (including special characters) to be encoded, using two control sequences to indicate the start and end of the special characters. The value to be encoded is expected in <C1>; the <C2> parameter is a boolean that indicates whether a check digit should be added (TRUE) or not (FALSE).

CODE128 (<C>)

This barcode allows the full ASCII character set (128 characters) to be coded in a format that includes two built-in checks.

Appendix

EAN8(<C>)

EAN8 prints the variable barcode represented in the code string <C> according to the EAN8 standard, which expects a 7-digit numeric code. The 8th digit is added as a control value. The supplied string <C> should be the string representation of the numeric code. If less than 7 characters are provided, leading zeroes will be added. Any characters following the 7th are truncated.

EAN13(<C>)

EAN13 prints the variable barcode represented in the code string <C> according to the EAN13 standard, which expects a 12-digit numeric code. The 13th digit is added as a control value. The supplied string <C> should be the string representation of the numeric code. If less than 12 characters are provided, leading zeroes will be added. Any characters following the 12th are truncated.

ITF (**<**C1**>**, **<**C2**>**)

ITF belongs to the 2/5 barcodes family. The decimal digits are coded in 5 bits; the first four are meaningful in the order 1, 2, 4 and 7. The fifth bit is an even parity bit. The digit "0" and the start/stop character are exceptions to this rule. The ITF function converts a string to a valid "Interleaved Two of Five" code. Text should only contain digits. The <C2> parameter is a boolean to indicate if you want a check digit (TRUE) or not (FALSE).

$MSI(\langle C \rangle)$

MSI converts the number <C> (13 digits maximum) into an MSI Plessy barcode, which includes a modulus 10 check digit.

belongs to the 2/5 barcodes family. The decimal digits are coded in 5 bits; the first four are meaningful in the order 1, 2, 4 and 7. The fifth bit is an even parity bit. The digit "0" and the start/stop character are exceptions to this rule. The ITF function converts a string to a valid "Interleaved Two of Five" code. Text should only contain digits. The <C2> parameter is a boolean to indicate if you want a check digit (TRUE) or not (FALSE).

POSTNET (<C>)

The POSTal Numeric Encoding Technique was developed by the Postal service to encode ZIP-code information on letters for rapid and reliable sorting by barcode readers. The POSTNET code can represent a 5-digit ZIP-code, a 9-digit ZIP+4 code or an 11-digit delivery point code.

POSTNET11 (**<**C1**>**, **<**C2**>**)

The POSTal Numeric Encoding Technique was developed by the Postal service to encode ZIP-code information on letters for rapid and reliable sorting by barcode readers. The POSTNET11 takes a 9-digit zipcode (e.g. "1234-5678") and adds the last 2 digits of a primary street address or other delivery point address to yield a valid 11-digit delivery point code.

UPCA(**<C1>**, **<C2>**)

UPC-A prints the variable barcode according to the UPC-A standard, which expects a 10-digit numeric code represented in the string <C1> and a separate system number <C2>. If <C1> contains less than 10 characters, leading zeroes are added. All digits following the 10th are truncated.

Appendix

UPCE (**<C>**)

UPC-E is obtained from the UPC-A version by omitting some zeroes from the code ("zero suppressing"). Only the system numbers 0 and 1 are available, and the first is currently in use. The UPC-E coding table differs from the UPC-A version because of the even parity coding which is reserved with respect to the coding of UPC-A. The data field consists of 6 characters: 3 with even coding and 3 with odd coding. The number system and the check digit are not explicitly present in the UPC symbol but derived from the particular combination of parities in the coding of the 6 meaningful characters.

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