

*Introducing*



# FrameMaker<sup>®</sup> 4

*A better way to write and publish business and technical documents.*

801-6711-01

<b>Welcome</b>	<b><u>1</u></b>
<b>Feature Overview</b>	<b><u>3</u></b>
<b>Create Business Correspondence</b>	<b><u>14</u></b>
<b>Prepare a Newsletter</b>	<b><u>16</u></b>
<b>Write a Research Article</b>	<b><u>18</u></b>
<b>Develop a Sales Kit</b>	<b><u>20</u></b>
<b>Collaborate on Long Documents...</b>	<b><u>24</u></b>
<b>...and Related Materials</b>	<b><u>26</u></b>
<b>Distribute Documents for Viewing</b>	<b><u>28</u></b>
<b>Your Path to Productivity</b>	<b><u>30</u></b>
<b>Platforms and System Requirements</b>	<b><u>32</u></b>

# Welcome

Frame Technology® offers powerful yet easy-to-use products designed to meet all your electronic publishing needs. This booklet introduces you to FrameMaker® 4 and its companion product, FrameViewer™.

You can use FrameMaker to create documents of any length and any level of complexity, from short memos to robust multiple-file reports or books. FrameMaker combines word processing, page design, table building, and graphics capability with hypertext authoring, document comparison, process color separation, and more.

The FrameMaker International Dictionaries™ support publishing in a variety of languages. For more comprehensive multilingual needs, International FrameMaker™ provides fully translated user interfaces and documentation in a number of languages.

FrameViewer is an innovative online distribution and viewing technology that lets you distribute FrameMaker documents electronically. To create links to other documents or products, you can embed hypertext commands in FrameMaker documents. Then you can open view-only, interactive versions of these documents using FrameViewer.

## *Welcome continued*

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**F**rameMaker and FrameViewer are available on several platforms, with complete compatibility between products and across platforms on the same version level. To meet your specific publishing needs, you can customize FrameMaker and FrameViewer in several ways.

And because FrameMaker and FrameViewer provide an easy learning path, with comprehensive documentation as well as the best in technical support and training services, you can become productive quickly.

Read through the rest of this booklet to learn more.

The following section, "Feature Overview," describes the outstanding features of FrameMaker and FrameViewer.

Next, sample sections illustrate how you can use FrameMaker to create a variety of printed documents. The last sample shows how you can use FrameMaker to create online hypertext documents and then distribute them with FrameViewer. We hope the samples will stimulate you to think about how you can put Frame products to work.

"Your Path to Productivity," at the end of the booklet, outlines how you can get up and running quickly with FrameMaker.

"Platforms and System Requirements," on page 32, gives you information about the required configurations for this version of FrameMaker on all platforms.

So, take a few moments to introduce yourself to FrameMaker and FrameViewer. Then you'll understand how these powerful products can meet all your electronic document publishing needs.

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## Feature overview

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Whether you write one-page letters or robust, multiple-chapter books, FrameMaker provides all the features you need for authoring, formatting, and illustrating documents, even in multiple languages. Using FrameMaker, you can draw or import color graphics, define custom colors, and create four-color separations. FrameMaker also includes complete table-building features and a math palette that allows you to typeset and evaluate equations.

To match the powerful document publishing capabilities and ease of use that FrameMaker offers, you would need to purchase several other applications.

### *Easy-to-Use Interface*

#### **Get started quickly**

The power and versatility of FrameMaker means that you can open a blank document and just start working. You can enter text immediately and revise the look of the text or the page layout at any time. Or you can set up the page layout and specify how you want the text to look first, then enter the text. FrameMaker always lets you see on screen exactly what your document contains and how it will look when printed.

#### **Refer to online Help**

Without leaving FrameMaker, you can turn to the comprehensive online Help system. It includes context-sensitive information about commands, windows, and dialog boxes, and lists keyboard shortcuts.

### **Increase your productivity**

You can swiftly change font family, size, and style. Robust formatting buttons and menus put tasks like tabbing and line spacing at your fingertips. Point-and-click catalogs and palettes let you quickly format paragraphs and characters and create graphic objects and mathematical equations. Convenient navigation tools let you scroll around, zoom in or out, or change pages.

### **Learn on any platform**

Of course, platform-specific versions of FrameMaker follow the interface guidelines for their platforms. But the FrameMaker interface is consistent on every platform—if you've learned FrameMaker in one environment, you can use it in any other environment.

### **Create paragraph and character styles**

Change the look of text quickly using menu commands. On Windows and Macintosh platforms, use the QuickAccess bar to quickly add or move tabs and specify line spacing. Design styles, called formats, and store them in catalogs for later use in the same or different documents. Choose from special capitalization styles, and create custom initial caps. Call attention to text with easily created side or run-in heads.

### **Set up numbering, cross-references, and more**

Number paragraphs using numeric, alphabetic, or roman styles, or a none. Add footnotes to text, tables, or equations, in a choice of automatic numbering styles. Start a sequence with any number or letter and restart anywhere in the sequence. Cross-reference figures, tables, titles, autonumbers, page numbers and numbered sections. FrameMaker maintains cross-references and automatically updates numbers within and between documents.

### **Add system and user variables**

Use predefined system variables for headers and footers, including current date, document name, current page number, and running section titles. Define your own variables—product code names, for example—and redefine or replace them at any time.

## Tables

### the Spelling Checker and Thesaurus

Check spelling and hyphenation in up to 12 languages. In addition, check for extra spaces, straight or curved quotation marks, unusual capitalization, and misspelled words or punctuation. Add new words to your personal or site dictionaries. Use the Thesaurus to find synonyms, antonyms, and related words in 12 languages.

### Work with text and other items

Insert and change text, conditional text, references, variables, symbols, and more. Search for items in headers, footers, and captions as well as body text, even when text is rotated.

### Import text in many formats

Use any of the built-in FrameMaker filters and external filters, import text in many formats, some of which are platform specific: Ami Professional, ASCII, DCA, LaserWrite, Interleaf, MacWrite, Microsoft RTF, Microsoft Word, troff, and WriteNow.

### Handle broad functionality with ease

Create simple ruled charts or complex multiple-page tables with repeating headers. Convert text into tables, and convert tables back into text. Put multiple paragraphs in any table cell, using any paragraph and character format. Control page breaks in multiple-page tables. Create and save table formats for later use.

### Change columns, rows, and cells

Add, copy, paste, delete, or move cells, rows, and columns. Resize the height or width of rows and columns with ease. Specify the horizontal and vertical alignment of cell contents.

### Straddle or rotate cells

Join two or more cells into a single cell that straddles (bridges) cells beneath it, adjacent to it, or both. Rotate an entire table or individual cells, rows, or columns.

### Use graphics, equations, and footnotes

Include graphics and math equations in any table cell. Rotate the graphics and equations within the cells. Add footnotes, which appear below the table, to the contents of cells.

### Create custom ruling and shading

Define default ruling and shading for a table, or create custom ruling and shading for any cell, row, or column using any color. Set the line width, line style, and number of lines for ruling and the percentage of fill for shading.

## Graphics

### Draw and edit objects

Draw solid, dashed, or curved lines with varying thicknesses and line endings. Draw filled or unfilled shapes using a choice of patterns. Move, size, scale, rotate, flip, or smooth objects. Measure objects, change their stacking order, and group or ungroup them. Snap objects to a user-definable grid, and align or distribute them. Rotate objects and text lines to any angle. Use the clip art provided with FrameMaker, or create your own clip art library.

**Insert anchored and unanchored frames**

Anchor frames within a paragraph, between paragraphs, or in the margins, so that when you edit text, the graphics within the anchored frames move with the text. Draw unanchored frames anywhere on the page. When you edit text, graphics placed in unanchored frames do not move; their location is fixed where you draw them.

**Import graphics**

Use built-in FrameMaker filters and optional filters to import scanned images and graphics created in other applications. FrameMaker imports graphics files in many formats, some of which are platform specific: BMP, CGM, DCS, DXF, EPS/EPSF/ESPI, GIF, HPGL, IGES, MacPaint, PCX, PICT, RGB-SGI, Sun RF, TIFF, WMF, WPG, and XWD. Copy the graphics directly into your document file, or maintain them in externally referenced files for easy updating.

**Capture screen images**

On UNIX platforms, use the FrameMaker capture utility to capture screen images and save them in X Window Dump (xwd) format. After you import images into your documents, you can move, size, duplicate, stretch, flip, rotate, or crop them. On Macintosh and Windows platforms, use any of a number of platform-specific capture utilities and then import the captured images into FrameMaker documents.

*Color Support*

**Define custom colors**

Create custom colors to enhance your documents. Choose from several color models, including CMYK, RGB, HLS, and PANTONE®. Modify or delete colors at any time. Assign color to text, objects, and even paragraph and character formats.

## *Page Design*

### **Easily set up page layout**

Start a document from a blank piece of paper, in portrait or landscape orientation, or from any FrameMaker template or document. Select one of the seven predefined page sizes, or specify a custom size. Create single- or double-sided documents and mix portrait and landscape pages in the same document. Easily resize or move text columns. Save time and effort by importing page layouts within and between documents.

### **Use master layout pages**

Set up page design and background text and graphics using up to 99 master layout pages per document. Mix portrait and landscape pages in one document. Rotate master layout pages in 90-degree increments. Specify which pages in your document use the information on each master layout page. FrameMaker automatically updates a page when you change its corresponding master layout page. Or, change the layout of a page itself, and update or override its master layout page.

### **Format columns flexibly**

Format text in single or multiple columns, mixing the width, length, and number of columns within and between pages. Add, delete, duplicate, or split columns, or use the drawing tools to draw new columns.

### **Control text flow**

FrameMaker gives you complete control over text flow. Connect, disconnect, split, or redirect multiple text flows across nonconsecutive pages within documents. Anchor text or graphic frames to float with associated text, within a line, within a column, or in the column margin.

## *Generated Files and Books*

### **Build long documents from multiple files**

Automatically generate long documents or books from multiple files. Then manage the multiple files as a single document, using paragraph formats, character formats, variable definitions, and page layouts across the files. When you add, delete, or rearrange files, FrameMaker accurately maintains and updates cross-references and automatic numbering.

### **Create tables of contents, indexes, and other lists**

Generate tables of contents or indexes for one file or multiple files. Generate lists of figures, tables, fonts, or other custom lists. Format and number the lists, and add a title. To make editing a list easier, automatically embed hypertext links to the entries in the source document.

**Use four-color process separations**  
Generate color separations for four-color process printing from within FrameMaker. Use up to six views for checking the assignments in your document. Print CMYK separations, or print a composite that shows all the colors on one page. To accommodate different printing vendors, specify whether to make separation positive or negative or whether to print mirror images.

### **Use registration**

Avoid gaps and moire patterns in your documents, adjust individual objects for proper registration by printing or changing the halftone pattern settings.

### **Use spot color**

Print small amounts of single colors to highlight particular parts of your documents. Print spot color separations showing each color on its own page or sheet of film.

## *Specialized Documents*

### **Use built-in hypertext**

Use hypertext to create links in your FrameMaker document to related pieces of information. Add links within or between documents or even between products. When readers open the view-only version of the document and click on a word, phrase, or graphic containing a hypertext command, FrameMaker carries out an action, such as branching to another location in the document, opening an information window with a related graphic or description, or starting a video sequence with sound or music (available on some platforms).

To facilitate navigation and editing, automatically link online tables of contents and indexes to their source documents. You can also design a custom interface for an online instructional environment, such as a help system, without including the Frame interface.

### **Create many variations from one document**

Create many similar versions of a document, each with minor differences, by applying a condition tag to the differing text in a single base document. Then specify a condition indicator, for example, underlining, to identify the differences between that version and the base document. Display or hide all conditions simultaneously, or view just one version at a time. You can even make anchored frames and table rows conditional.

## *Document Control*

### **Save time with templates**

In FrameMaker, a template is any document you use as the basis for another document. A template contains information about page layout; paragraph, character, and table formats; color definitions; and so on. FrameMaker comes with predesigned templates for books, letters, reports, business cards, and other types of documents. Use one of the templates provided, design your own, or use any FrameMaker document as template. To create a new document, rename any template or document that has the formats you need.

### **Spot changes at a glance**

Identify new or edited text easily by turning on change bars. Specify that change bars appear automatically when you edit text, or insert them yourself in specific places. Remove all change bars at once or remove one or more at a time.

## *FrameMath®*

FrameMaker provides a full palette of math elements to streamline the creation, formatting, and evaluation of typeset equations.

### **Create equations**

Place equations anywhere in a document: in a line of text, or in diagrams, tables, and footnotes. Insert text strings, lists of expressions, operators, delimiters, functions, and more. Select and cut, copy, or paste all or part of the equation. Create custom math elements, such as operators, or redefine existing math elements to suit your specific needs.

### **Format equations**

Choose from three standard equation sizes in a choice of fonts and formats. Specify line breaks for long equations, and create vertically or horizontally aligned lists of equations. Apply character formats to specific elements. FrameMaker automatically numbers equations as you create them.

### **Evaluate equations**

Transform and evaluate equations mathematically with commands like Isolate Term, Simplify, Multiply Out, Matrix Transpose, and Apply Rule.

### **Compare document versions**

With FrameMaker, it's easy to track the changes between two versions of the same document. You can compare them for inserted or deleted items, changes in the contents of anchored frames and tables, and more. FrameMaker automatically generates a composite document that uses conditional text and optional change bars to show you the differences between versions. The comparison also creates a summary document containing a general summary and revision list. Optional automatic hypertext links from the summary document to pages in the source documents can quickly take you to the exact location of any change you made.

### **Add revision pages**

Rather than change the pagination of an entire document when you add or delete information, issue revision pages. Revision pages also help keep the current table of contents and index accurate. Insert them between existing pages or have them replace existing pages. Print and distribute only the revision pages to update long documents.

## *International FrameMaker*

To support communication around the globe, International FrameMaker lets you create documents in many languages.

### **Fully translated versions**

In addition to an International English version, International FrameMaker is available in a variety of fully translated user interfaces including French, German, and Swedish. Each version has all the features of FrameMaker 4 and comes with a complete documentation set translated into the language of the interface.

**International Dictionaries**

International FrameMaker provides International Dictionaries that support correct spelling and hyphenation in 17 languages, including US English, UK English, Danish, Dutch, French, Finnish, German, Italian, Norwegian, Portuguese, Spanish, and Swedish.

**International Thesaurus**

International FrameMaker provides an International Thesaurus that supplies synonyms and related words in 12 languages, including US English, UK English, Danish, French, German, Italian, Norwegian, Spanish, and Swedish.

*Online Distribution*

If you distribute frequently updated documents to a network of users, FrameViewer provides a simple yet sophisticated solution.

FrameViewer is a companion product to FrameMaker. It allows electronic distribution of view-only versions of FrameMaker documents. You can make FrameViewer documents interactive by embedding hypertext links in your FrameMaker source documents.

**Distribute view-only documents**

Electronic distribution saves you the time and expense of printing, mailing, and distributing documents, yet allows printing of all or part of a document on demand. The view-only capability means that files can't be inadvertently altered. And for documents that change frequently, online distribution provides broad access to the most current information.



### **Work with documents, not just images**

Unlike static fiche-type page representations created by other products, online FrameViewer documents are "live." You can have multiple documents open at the same time, so you can copy information into other applications. You can move around using the scroll bar, menus, buttons, or keyboard shortcuts, and use the zoom feature to enlarge or reduce your view.

### **Add hypertext links**

After you embed hypertext commands in your FrameMaker document, you're ready for electronic distribution; no separate post-processing is required.

Viewers open the document using FrameViewer, they can gain access to related information in the same document or other documents by simply pointing and clicking. Because these products enable hypertext navigation, you can use them to create online documentation systems. On UNIX platforms, FrameViewer support for Remote Procedure Calls (RPC) means that you can develop help systems or graphical front ends for database applications.

### **Interact with your database**

On UNIX platforms, you can instruct your database application to interact with FrameViewer to update existing FrameViewer documents or create new ones "on the fly." For example, you can write a database query to create a report. The query gathers information from multiple sources and generates a Maker Interchange Format (MIF) file that has all the database information plus formatting information. When you open the report using FrameViewer, the result is a polished online document that can also be printed.

### **Use the comprehensive Help**

The FrameViewer online Help system provides context-sensitive reference information about all commands, dialog boxes, and keyboard shortcuts.

### **Extend your compatibility**

Hypertext links provide seamless compatibility with many other applications. On platforms that support multimedia, you can include links to video and audio segments in your files. Because FrameViewer can read MIF files, you can create FrameViewer documents even if you don't have FrameMaker. FrameViewer is available on the same platforms as FrameMaker and operates over many networks.



## *Customization*

FrameMaker gives you the flexibility you need to accomplish almost any publishing task in any electronic environment.

FrameMaker is compatible with many word processing, graphics, and spreadsheet products. You can import information from these products directly into your FrameMaker documents, and then distribute the documents online using FrameViewer. You can also customize FrameMaker in a number of ways and create applications that extend its functionality.

### **Customize menus and shortcuts**

On UNIX and Windows platforms, you can customize your version of FrameMaker by adding, deleting, or moving menu commands or entire menus, and you can redefine keyboard shortcuts. On the Macintosh, you can customize menus and shortcuts using the Frame Developer's Kit™ (FDK), described on the next page.

### **LiveLinks, OLE, and Subscribe**

FrameMaker supports connections between imported objects and the application that created them by allowing the imported objects to remain "alive" in FrameMaker documents. In the UNIX environment, this capability is called LiveLinks; in the Microsoft Windows environment, it's called OLE (Object Linking and Embedding); in the Macintosh environment, it's called Publish and Subscribe.

### **Maker Interchange Format**

Maker Interchange Format (MIF) allows you to exchange information with other applications by saving a FrameMaker document in a format that the other applications can read.

On UNIX platforms, writing a database query allows you to create custom MIF files that contain descriptions of text, graphics, tables, and equations from various database sources. You can open the MIF files as formatted documents in FrameMaker or FrameViewer.

### **Frame Filters**

On UNIX platforms, an optional Frame FilterPak includes a set of additional filters that extends your capabilities for importing text and graphics.

### **Frame Developer's Kit**

The Frame Developer's Kit (FDK) has three parts: the Frame Application Program Interface™ (API), the Frame Development Environment™ (FDE), and the Intermediate Printer Language (IPL) specification. The API and the FDE are available on Windows, Macintosh, and UNIX platforms; the IPL is available on UNIX platforms only.

The API allows you to write C programming language applications that control FrameMaker sessions and communicate interactively with FrameMaker users. The API gives your application direct access to the text and graphic objects in a document. Using the API, your application can do many of the tasks that real users can do and more. For example, you can create grammar checkers, voice control utilities, version control utilities, filters, and database publishing packages. The API consists of header files and function libraries, sample source code, and utilities.

The FDE provides a platform-independent way to create applications by simply recompiling. The FDE includes a set of header files, libraries, wrappers, and makefiles for each supported platform, as well as a variety of utilities.

The IPL lets you translate the X/Motif version of FrameMaker to a page description language other than PostScript.

### **FrameServer™ technology**

On UNIX platforms, the FDK also provides an embedded technology called FrameServer that lets you integrate database publishing or document management applications into Frame products. FrameServer is a set of high-level RPC functions that let other applications control the operations of Frame products. For example, using FrameViewer and FrameServer, you can create a self-running slide presentation.

# Create *Business Correspondence*

Use FrameMaker to write attractive and effective letters, memos, and other business correspondence.

One of the fastest ways to create a good-looking document is to begin with one of the predesigned FrameMaker templates and customize it to suit your needs. That's how the sample letter on this page was created. A basic FrameMaker letter template was used as a starting point to create a customized letter template for the bicycle company. Then the new template was used for this letter.

Even if you don't start from a template, formatting text and designing pages is simple and straightforward in FrameMaker. To illustrate your ideas, you can create graphics directly in your documents with the drawing tools. Built-in and optional filters let you import graphics from many other applications.

And with the extensive international support FrameMaker provides, you can write and revise text and check spelling, punctuation, and hyphenation in up to 17 different languages.

ZEPHYR  
BICYCLES  
LIMITED



August 1, 1993

Monsieur David Fontaine  
Cirque du Nord  
1966 Rue du Thérèse  
Montreal, Canada M3W 1G5

Re: New Models

Dear Mr. Fontaine:

You'll be glad to know that we recently added these new models and colors to our inventory. They will be illustrated in our latest color catalog, which you should be receiving in a few weeks.

MODEL	ITEM #	COLORS
<b>BICYCLES</b>		
Breeze	S2024	Freight, Sunlight, Twilight, Moonlight
Inspiration	S2081	Emerald, Sapphire, Opal, Ruby, Gold
<b>UNICYCLES</b>		
Clouds	U1669	Freight, Sunlight, Twilight, Moonlight
<b>TANDEM</b>		
TradeWinds	T2816	Palm, Sand, Coconut, Lagoon, Hibiscus, Curry
FourWinds	Q4527	Palm, Sand, Coconut, Lagoon, Hibiscus, Curry

Note: Starlight blue is no longer available. It has been replaced by Twilight, which is almost identical.

The new bicycles went into production last month and are currently in stock. We can start shipping immediately via express air freight. Please let me know if you have any questions or need more information.

Sincerely,

*Christine Martin-Scott*

Christine Martin-Scott  
President

100 CONNELL STREET, MEMPHIS, TENNESSEE 38114  
901.555.0724

*Format* text quickly—changing font, size, style, alignment, and more—by simply clicking buttons or choosing menu commands. To create multiple paragraphs with the same look, create a style, called a format. Name the format and save it in a catalog. Then just click to apply it to text.

*FrameMaker* letter templates provide the basic elements you need, such as company name and address, salutation, and an automatically updated variable for the date.

*Change* alignment and line spacing in moments. You can save changes and apply them immediately to other paragraphs.



10 Octobre 1993

Monsieur David Fontaine  
Cirque du Nord  
1966 Rue du Thérèse  
Montréal, Canada M3W 1G5  
Objet : Nouveaux modèles

Monsieur,

Nous avons le plaisir de vous annoncer l'ajout de notre gamme de cycles. Vous pourrez les voir dans le catalogue que vous devriez recevoir dans les prochains jours.

MODELE	REF.	COULEUR
Bicyclettes		
Brisa	S2024	Fla
Zephyr	S2081	Er
Monocycles		
Musagis	U1669	Fla
Tandems		
Mistral	T2816	Pfl
		Se
Quatre vents	Q4527	Pfl
		Se

N.B. : nous avons dû supprimer la couleur l'orange remplacée par Crépuscule, qui est actuellement en stock. Nous pouvons en faire plus. Pour plus d'informations, n'hésitez pas à nous contacter.

Sincères salutations,

*Christine Martin-Scott*

Christine Martin-Scott  
Présidente

100 CONNEX STREET MEMPHIS TENNESSEE 38104  
901.525.0724

*Using* the International Dictionaries or international versions of FrameMaker, create correspondence in different languages, such as French, German, or Swedish.



Den 10. Oktober 1993

Frau Hanna Dötting  
Rathausgasse 1  
W-7800 Freiburg i.B.  
Deutschland

Betreff: Neue Modelle

Sehr geehrte Frau Dötting,

Vor kurzem haben wir die folgenden neuen Modelle und Lackierungen in unser Programm aufgenommen. Sie finden die neuen Modelle in unserem Farbkatalog, den Sie in wenigen Wochen von uns erhalten.

MODELL	ARTIKEL	LACKIERUNG
FAMERAD		
Brisa	S2024	Flammen, Sonnenlicht, Zweifelt, Mondlicht
Inspiration	S2081	Smaragd, Saphir, Opal, Rubin, Gold
MUSAGIS		
Musagis	U1669	Flammen, Sonnenlicht, Zweifelt, Mondlicht
TANDEMS		
Mistral	T2816	Palme, Sand, Kokos, Lagune, Hibiskus, Curry
VierWinde	Q4527	Palme, Sand, Kokos, Lagune, Hibiskus, Curry

Hinweis: Die Lackierung Starlight Blue ist leider nicht mehr lieferbar. Die neuen Modelle sind stattdessen mit der nahezu identischen Lackierung Twilight erhältlich.

Die neuen Modelle sind vor etwa einem Monat in Produktion gegangen und sind ab sofort per Express lieferbar. Auf Anfrage senden wir Ihnen gerne weitere Produktinformationen und Unterlagen zu.

Mit freundlichen Grüßen,

*Christine Martin-Scott*

Christine Martin-Scott  
Präsidentin

100 CONNEX STREET MEMPHIS TENNESSEE 38104  
901.525.0724

*Use* special capitalization, such as small caps, to highlight elements of your letter.

*Enhance* your company logo with an imported graphic, or create your own logo using the FrameMaker drawing tools.



10 Oktober 1993

Herr Roland Svensson  
Föreningsgatan 205  
211 53 MALMÖ

Ängelände: Nya modeller

Bäste herr Svensson!

Vi har glädjen att meddela att vi nu införlivar följande nya modeller och färger i vårt sortiment. De illustreras i vår senaste färgkatalog, vilken kommer att vara er tillhanda inom ett par veckor.

MODELL	NUMMER	FÄRGER
DRILLAR		
Bris	S2024	Eidsken, Solstken, Norsken, Mänstken
Inspiration	S2081	Smaragd, Saphr, Opal, Rubin, Guld
EMUSAGIS		
Spunde herten	U1669	Eidsken, Solstken, Norsken, Mänstken
TANDEMS		
Passadovind	T2816	Palm, Sand, Kokosnot, Lagun, Hibiskus, Curry
Mistral	Q4527	Palm, Sand, Kokosnot, Lagun, Hibiskus, Curry

Observera: Sjämljusblätt har utgått. Den har ersatts med Norsken, som är nästan identisk.

De nya modellerna började tillverkas för en månad och finns nu på lager. Vi kan börja leverera dem omgående via expressfrakt. Vår god kontakta mig med eventuella frågor eller för ytterligare information.

Vanligen,

Christine Martin-Scott  
Verkställande direktör

100 CONNEX STREET MEMPHIS TENNESSEE 38104  
901.525.0724

# Prepare a Newsletter

If you have little or no experience laying out columns of text and graphics, formatting a newsletter may seem intimidating. But you can eliminate frustration and achieve professional-looking results by starting with the FrameMaker newsletter template.

You can easily customize the template, adding attractive graphics and fonts to produce a spectacular up-tempo piece like this one, a newsletter for jazz artists and aficionados. With FrameMaker, every page can be different, so your design is never limited.

Import scanned photographs or other graphics from many other applications. Import the graphic by reference to save disk space and have FrameMaker update the image automatically if it changes, or import a copy of the graphic directly into the document.

So that you can quickly get answers as you're working, FrameMaker provides a comprehensive online Help system that includes context-sensitive help.

If an imported image doesn't fit, you can crop, scale, or resize it.



## Index

- 1 Afro-Asian Tour Planned
- 1 Interview: Rudy Westerband
- 2 Reviews
- 2 March Calendar
- 4 Classifieds

# JAZZMATAZZ

PRESENTED BY JAZZ INTERNATIONAL

VOLUME 3 — NUMBER 7 FEBRUARY 1993

## Afro-Asian Tour Planned

by Margy Svensson

For many jazz lovers in Africa and Asia, it's a dream come true. In June, more than a dozen jazz greats will combine their talents during a one-month tour of major cities on those continents. So far, confirmed performers include vibranist Andrea Revnaud, saxophonist Erny Harte, pianists Rafi Macintosh and Harmon Woods, drummers Phil Peterson and Benny D'Alvoren, composer Tony Canero, trombonist Will Swiner, guitarists Rashid El-Haki and P. K. VanRyn, bassist Hal Wiggins, clarinetist Jean-Pierre Dornier, and vocalists Ghem Nash, Loretta Gato, Chacha Moniles, and "King" Richard Johnson. The event is sponsored by the Societe du Jazz Musique, the African American Jazz Foundation, the Asian Jazz Association and the individual performers' recording companies.

This tour marks the only time that international jazz artists from so many venues have joined together to perform in both Africa and Asia on one tour. Scheduled cities include Abidjan, Dakar, Lagos, Casablanca, Cape Harbors, Bombay, Singapore, Bangkok, Tokyo, and Hong Kong.

The program calls for each artist or group to play solo and for all the musicians to collaborate on at least one song. No information has been released about which song that will be, but you can be sure it will be a knockout number. Many of the performances will be videotaped for a cable special to be broadcast sometime in the late summer, and an album of the tour's highlights will be released in the fall. Proceeds from the album will be donated to the Refugee Children's Relief Fund.

Tickets will be available starting May 3rd. For information about performance times and locations, and to order tickets, call 1 8000 FOR-JAZZ.

Speaking on behalf of the concert's organizers, Martha Benson told us, "We expect this tour to be a great success. There's a tremendous interest in jazz in the cities we're visiting, and very few live performances are held there. If things go as well as we anticipate, we may repeat the tour at least every other year. We are also considering arranging an additional tour through Eastern Europe, now that travel in those countries has opened up. Several prominent artists who were unavailable this time have already shown interest in future tours."

## Interview

by Gene Scott

### Rudy Westerband

Perhaps no other trumpet player today displays such an eclectic style, not only in his original compositions but in the way he duets with others. His music, all always uncharacteristically reaches new peaks in his recent production, *Sunflower*. Throughout one song, called *Com-Mu-Fun*, the melody melts in your ears like butter on one of those hot-from-the-oven delights. JazzMatazz had the pleasure of meeting with Rudy recently to hear firsthand about his background, his current style, and his plans for the future. Tap, tap, and deep-voiced, smiling Rudy strolled into our offices with his bicycle in tow.

Continued on page 4

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**REVIEWS**  
by *Inda Sarracoe*

**Audrey Lee Kline**  
*Fit to Be Crad*  
Bluebird, D45-230 (45:58)

As a deep breath before you plunge in - these acts are dead in this, her second album, the lady seems to be having her stride. Her voice is strong and steady, but melodic, and she engineers an unusual expressiveness in her phrasing, even in the "review" album numbers that temporarily level a bit the lowdown jazz.

Not bad at all (Todd Long, John Tom Paveil, Roscoe) - Smart, all respectable musicians in her own right, manage to shove gently in the background without overpowering Audrey Lee's delicate tenors.

Shady Blues, she wraps her voice around the melody, it sounds as if there are silver ribbons flowing from her throat. The incredibly rich bass work - Bosses adds to the effect. The fifth cut, Over 'n' Dead Body, is suffused with humorous, almost

celebratory, gospel overtones that never pull the tune away from its basic base.

Audrey Lee's rendition of the old classic, Riverbank Blues, is so fresh and personal you'll swear you never heard the song before. When she sings *Mania Needs Some Barbecue*, she generates more bone-grinding grit than a Mississippi hog farm. Today's swinging strings almost move this number into another dimension.

Unlike her first album, which was good but a bit uneven, this venture is a true winner, destined to make Audrey Lee's mark. Highly recommended.

**Michael Ableson and Company**  
*Campana in Italy*  
Modern, JW 41231 (53:10)

Fans will delight in this amusing new contribution from a group that's garnered international acclaim for their impassioned virtuosity as well as their first-rate execution. This collection of traditional Italian songs has been given a jazz twist that makes you stand up and take notice. Each tune has been solidly reimagined with jazz chords, and the timing has been cleverly reworked to generate an

urgent but harmonious pace. Although the tunes do have a campy, quirky quality, they never descend into forced creativity.

Michael's piano improvisation on the simple folk melody *Santa Lucia* makes the album worth buying.

**David Mishkin**  
*Chick Peas*  
Seafood, CMC 1985 (39:04)

This is the fourth album from this New York-based trio, and, like their third album, it is good but not consistent. David, on drums, is again supported by Stavros Athanasiadis on keyboard and Jeff Antipich on bass.

Their approach is, for the most part, solid and on target. They are most successful with the more hybrid songs such as *Give Me Your Love* and *Kham*, where they seem to accord directly into each song's soul, requiring an intense but delicate sensibility. On the other hand, *Musing* reveals their competence needed to carry the listener through the complex changes in both melody and tempo that make the song engaging. However, on *Chick*

Peas, the album's sole track, the playing achieves a bright balance that makes the piece really jump.

One wonders why this group of extremely talented musicians has not been able to produce consistently well. Their first two albums were unusually good. Yet both their follow-up efforts have lacked energy, falling short of their followers' expectations. In the meantime, some of us can enjoy this trio's latest morsels if we can tolerate a few disappointing tracks.

**Paul Vergara**  
*Melange*  
Vivid, MRC 23086 (67:55)

Paul's engaging style truly is a melange. He was born of Filipino and Greek parents, and his music is a unique blend. It combines exotic bouzouki with passionate, classical Spanish, and occasional colorful threads of Chinese and Indonesian folk music are woven in to create an even more interesting tapestry. All of the songs are original compositions.

The first song, *Fishboats at Dawn*, captures the feeling of village fishermen venturing out at sun-



rise to fill their nets with firm creatures. David Wood evokes ancient Greece whose twisted limbs have quieted the troubled seasons of peasant life. On the second side, *Bambino* is playfully syncopated, while *Tap Pool* is languorous, almost somnolent. For the most part, Paul's guitar technique is impeccable. Although this is his first album, he has recorded with several artists before, notably the guitar great P. K. Manfili. His style is not as hard edged as Manfili's, though, but rather jaunty and poetic.

All in all, this mix of musical messages by a talent of new songwriters is a charming addition to the jazz guitar field. Recommended.

**Dennis Toner**  
*Years to Come*  
Oceanic, TXZ 36159

The title tune is a wonderful song, not badly sung. Otherwise, wait for coming years.

**Carly Carow**  
*Fueches*  
Lego, 86692

These trumpet interpretations of jazz standards just aren't hot enough.

- Warm
- Catchy Hit
- Hot
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- Blazing

**March Calendar**

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New York Fenella Flynn Club 999	1	Chicago Max Tannenbaum The Jazz Lounge	2	San Jose Pete Patterson S. J. State University	3	Paris Nan Sadehan Le Ronde	4	New York "King" Richard Johnson Tiny's	5	Kansas City Jack Vance Wally's Club	6	Boston Randi Korenberg The LoDown	7
Madrid Tony Canero El Patio	8	New Orleans Journey Mamquad's	9	Portland Rudy Westerman My House	10	London Terrence Gillies Mackay's	11	St. Louis ChoCho Morale The Blues Bar	12	Stockholm Ghen Rush Lola's	13	New York Koko Perez Tiny's	14
San Francisco The Lloyd Fike Stage West	15	London Ghen Rush St. George's	16	Chicago Fenella Flynn The Jazz Lounge	17	Boston Auro The LoDown	18	Paris Ghen Rush Le Ronde	19	Houston Journey The Jazz Place	20	Seattle Arnette Z Hoopie's	21
Vinona Ghen Rush Liebestraum	22	Memphis Sam Papa Wagner Honeybee's	23	Chicago Fusion Express Cafe Huh?	24	Berlin Ghen Rush Wolfgang's	25	New York Oakland Evans Club 999	26	Seattle The Phil Gh Boney's Bar			
Rome Ghen Rush Ferrara's	29	Berlin "King" Richard Johnson Wolfgang's	30	Boston Pete Patterson The LoDown	31								



JAZZMATAZZ 2

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Continued from page 1

Q: Where did you grow up, and how did you first become interested in music?

R: I was born in Kentucky but I grew up in Queens, New York, in a large family that was always either listening to music or singing. We didn't have a lot of money, so I'd buy albums second hand or borrow them from the library. As soon as I was old enough, I would take the subway and Greenwich Village to listen to the great jazz musicians that played at the clubs there. This was in the late sixties, interest in jazz was waning, but there were still a few of the original clubs open back then.

Q: When did you learn to play, and why trumpet?

R: My mom saw how interested I was in the trumpet, so she started me on lessons when I was 12. I always had the clarity of the trumpet - it's simplicity. You can make a sound that is cool, sharp or smooth.

Q: Some of the songs on your latest album reveal negative moods that were not present in your earlier work.

R: Right. I'm also composing the lyrics.

Q: This is very exciting. How many musicians and vocalists have you worked with? What brought it about?

R: I've had to sing - I started taking singing lessons a

few years ago just for fun, but I had it in the back of my head that I might want to combine singing with playing at some point. The point has come.

Q: How do you get ideas for songs? What inspires you to compose?

R: I've been inspired by a lot of things - old traditional stuff from a lot of countries. And modern music, which was the basis for a lot of the folk songs, which in turn were often influenced by African and North African music. All of these connections fascinate me, and I love to make similar connections when I compose.

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## GEOLOGY INSTITUTE JOURNAL

### The Structure and Dynamics of Volcanoes

**R**eferred to by some as the mother of continents, the fury and might of the world's volcanoes are second to none in their destructive power.

#### VOLCANIC ORIGINS

Most of the world's volcanoes are found along the Earth's crust is divided. The largest volume of volcanic material is formed on the sea floor and spreads up between the plates, forming ridges. These mid-ocean

ridges are usually basaltic in composition and erupt quietly into the ocean floor. In contrast, the volcanoes formed over subduction zones, in regions of plate convergence, are among the most violent.

Along continental margins, chains of volcanoes, such as the Andes, have formed. Collisions of oceanic crust produce island arcs such as the Antilles, the Aleutians, and the Japanese Islands. In addition to these plate-margin areas, volcanoes also form over "hot spots" within a plate, as in the cases of the Hawaiian Islands and the Yellowstone volcanic field.

Volcanic lava derives from deep-lying molten material, called magma, that tends to rise and initiate the Earth's crust. The ultimate source of the magma-producing heat is commonly thought to be the decay of radioactive isotopes within the Earth, perhaps combined with residual heat from the time when the planet was formed.





#### TYPES OF VOLCANOES

Most fluid magmas erupt quietly as a flow from the vent to form gently sloping shield volcanoes, a name derived from their resemblance to the shields of a Germanic warrior. The lava flows in shield volcanoes are usually only 1 to 3 m (3.3 to 11 ft) thick, but they can cover vast areas. The volcanoes of Hawaii and Iceland are typical shield volcanoes.

Magma with high gas content and high viscosity are usually more explosive than those flowing from shield volcanoes. These gas-rich magmas, in many instances, are blown high into the air during an eruption. The magma accumulates around the vent and over steep-sided cinder cone volcanoes, an

Most of the tallest volcanoes are composite volcanoes (stratovolcanoes). These are formed from a cycle of quiet eruptions of fluid lava followed by explosive eruptions of viscous lava. The fluid lava creates an erosion-resistant shield over the explosive eruptions, forming steep-sided cones.

In the past, great eruptions of extremely fluid basaltic lava from extensive systems of fissures in the Earth has occurred. These series of eruptions formed extensive plateaus of basaltic lava. In India the Deccan basalts cover 250,000 sq km (100,000 sq mi), and in Oregon and Washington the Columbia Plateau basalts cover approximately 130,000 sq km (50,000 sq mi).

Name	Location	Date	Type	Comments
	Vesuvius	79 A.D.	Composite	Vesuvius was responsible for the total destruction of the population of Naples.
	Mt. St. Helens	1980	Ash Cindercone	The eruption of Mount St. Helens in Washington completely destroyed over 1,000,000 acres of prime forest land.
	Kilauea	1983	Lava Shield	Kilauea has been steadily erupting for the past seven years, slowly destroying valuable farm lands in the delicate Kona Valley. The ratio between the temperature of the lava and the speed at which it spreads is calculated as $F = h(t)^{0.7}$ .
	Mt. Fuji	1707 & 8	Lava Dome	The Mount Fuji eruption is responsible for the lush vegetation in Japan. Without this eruption in 1400, rice production would be one-tenth of what it is today.

Paul Gail, The Physics of Lava, p. 52

12

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The Structure and Dynamics of Volcanism



The Kilauea volcano located in the Hawaiian Islands has been erupting continuously for the past 7 years.

Cone Types



cinder cone



shield



stratovolcano



cinder cone

**MAGMA AND LAVA** Magma is a complex, mobile mixture of crystals, rock fragments, liquid, and gases deep within the Earth. The source of igneous rocks, it can intrude into adjacent rocks or extrude at the surface. Never directly observed, the existence of magma is inferred; they presumably crystallize as a result of melting at great depth. Through experimental studies with artificial melts, geologists seek to determine the physical conditions and appearance, chemical compositions, paths of evolution, loci of origin, and causes of formation of magma.

Lava is molten magma that reaches the mouth of a volcano and starts flowing down. How rapidly or slowly the lava travels depends on the exact combination of elements that make up the particular lava as well as how hot the lava gets.

**FORMATION** The ultimate cause of magma formation is the internal heat of the Earth, originating either from decay of radioactive material or from residual heat remaining from the initial formation of the planet. Magma originates at many levels within the Earth. Melting begins wherever temperature and pressure reach the melting point of any component. If these conditions are maintained, the body of melt grows. When a melt migrates to cooler areas or zones of different pressure, the melt can begin to crystallize.

Basaltic magma probably form mainly in the lower part of the crust and in the upper mantle. Because granitic magma can form by chemical differentiation of a basaltic melt, basaltic magma was formerly thought to be the parent magma of other rock types. Geologists now believe instead that most granitic magma forms by melting of sedimentary rocks in lower

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The Structure and Dynamics of Volcanism

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Glossary

This is an alphabetical listing of the terms used throughout this report.

**a a**  
In the Hawaiian language, the word that describes rough, choppy lava. See also *pa'ahoehoe*.

**ash**  
Fine dust and particles of pulverized lava expelled from the cone of a volcano when it erupts.

**basalt**  
A type of dark volcanic rock, primarily composed of pyroxene and labradorite, usually having a dense columnar structure.

**basaltic lava**  
A type of very fluid lava that probably originates in the upper mantle and slowly erupts along mid-ocean ridges. This type of lava results in dense, fine-grained basaltic rock.

**cinder**  
Coarse particles, up to the size of small pebbles, of exploded lava expelled from the cone of a volcano when it erupts.

**cindercone volcano**  
A type of volcano formed when magma with high gas content explodes violently, producing steep-sided cones of ash and cinders.

**continental margin**  
The area at the edge of a continent where plates collide, often forming chains of volcanoes.

**geothermal energy**  
Energy produced when the heat and gases released by volcanic activity below the earth's surface are harnessed. Geothermal installations can generate and store electrical power or provide heat for manmade structures.

**granite**  
A type of very hard volcanic rock, composed of quartz, orthoclase and albite feldspars, and sometimes other minerals, usually having a fine granular structure.

**granitic lava**  
A type of lava formed when sedimentary rocks melt in the lower parts of the Earth's crust. This type of lava results in very hard, crystalline granitic rock.

**hot spots**  
Areas within one of the Earth's plates where deep lying molten material gradually or suddenly surfaces to form new land masses, usually islands.

**igneous rock**  
Rock of igneous structure and composition formed when lava and other eruptive material cools and solidifies.

**island arcs**  
Areas along the margins between the Earth's plates where deep lying molten material gradually or suddenly surfaces to form new islands.

**lava**  
The state of molten material when it overflows the mouth of a volcano and flows down the sides.

**magma**  
A complex mixture of molten or fluid crystals, rock fragments, liquids, and gases deep within the earth, possibly caused by the decay of radioactive isotopes.

**mid-ocean ridge**  
The area of the sea floor between spreading plates where the largest volume of volcanic material forms.

**pa'ahoehoe**  
In the Hawaiian language, the word that describes lava when it occurs in smooth, undulating folds; also called *ropy lava*. See also *a'a*.

**pumice**  
A type of light, porous volcanic rock, created by the cooling of gaseous cinders and lava, which is often used in smooth surfaces.

**shield volcano**  
A type of volcano formed when repeated layers of fluid magmas gently flow long distances away from the central vent.

**stratovolcano**  
A type of composite volcano formed when cinder-producing eruptions of gaseous magma alternate with flowing layers of fluid magma.

**subduction zone**  
The area along which one plate slides under another as the two plates collide.

**tuff**  
A type of igneous rock consisting of smallish fragments of volcanic detritus, usually having a stratified structure.

**vent**  
The opening at the top of a volcano out of which hot gases and lava flow, or ash and cinders are violently thrown, when the volcano erupts.

**volcanic glass**  
A type of glass like rock formed when crystalline magma melts, erupts, and then cools.

**vulcanism**  
The activity connected with the formation, movement, and eruption of molten rock.

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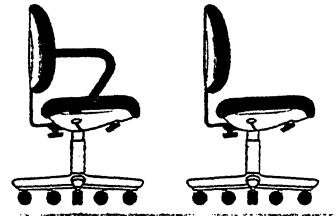
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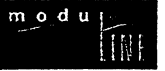
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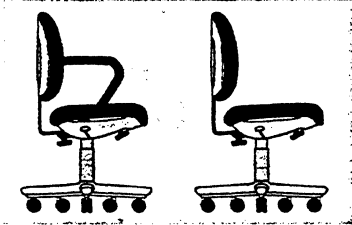
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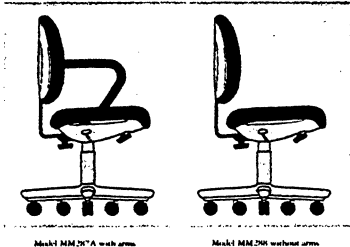
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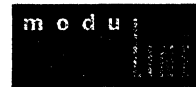
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Unlike many other applications, FrameMaker lets you mix landscape and portrait pages in the same document, in any order.

*Design* a company logo with the FrameMaker drawing tools and user-defined color capability. For a consistent company identity between documents, repeat graphic elements, moving and resizing them as necessary.

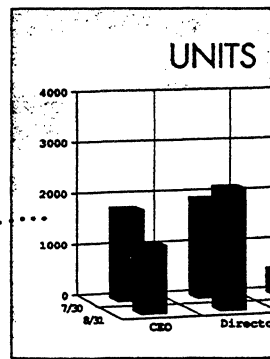


Date: September 2, 1995  
 To: Fritz Schueller  
 From: Jasmine Wing  
 Re: Monthly Update

Sales flattened out a bit this month in all regions, but made earlier this year. S. J. Davis, head of our Western region line are still going strong, as are sales of accessories. Northeast.

Our annual sale, which started yesterday, is expected to facturing has been notified, and production will be steep expected demand.

What follows is the monthly update. Feel free to call me

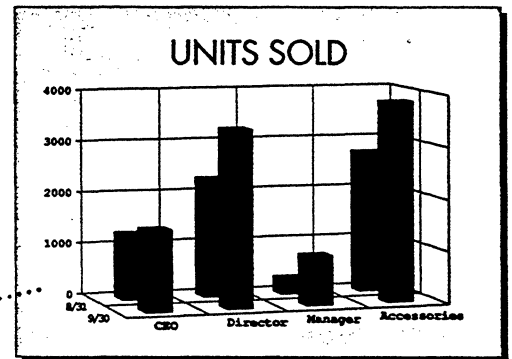


Date: October 4, 1995  
 To: Fritz Schueller  
 From: Jasmine Wing  
 Re: Monthly Update

Congratulations to the moduLINE sales force for making September our most profitable month ever! In particular, representatives in the Western region report tremendous success with our innovative Director line.

Due to the heavy demand created by the sales pricing, especially on our new line, we're setting up a faster, more efficient shipping schedule. Before contacting customers, add the shipping information on the enclosed sheet to your sales binder and schedule deliveries accordingly.

What follows is the monthly update. Please note that production of all products has increased. Feel free to call me directly if you have any questions.






*Create* live links to information in other applications to provide your sales teams and customers with up-to-the-minute information.

## moduLINE OFFICE CHAIRS




### Features at a Glance

- The skeletal framework boasts a simple yet practical functionality.
- All models provide full back support to reduce the accumulation of stress.
- The many choices of seat depth and arm height accommodate all body types.
- The 5-bar base with dual casters allows effortless mobility on all surfaces.
- All coverings are ecologically designed with fully recyclable materials.
- Our patented tilt-and-swivel mechanism responds instantly to all movements.
- The convenient fingertip controls make adjustments easy.
- Fine attention given to details, inside and out, even in unseen areas.
- All chairs are backed by the ModuLINE lifetime guarantee.

 <p><b>CEO</b> Model M395</p>	 <p><b>Director</b> Model M288</p>	 <p><b>Manager</b> Model M216</p>
<p>Choose the CEO if you are looking for a supportive chair that will suit those in the upper echelon of your organization. The CEO was designed to provide superior comfort and luxury while retaining style, mobility, and ergonomic excellence.</p>	<p>Choose the Director if you are looking for exceptional quality and value in executive seating. Flexible but firm back support team with materials that can stand day to day wear. The Director was designed for who need the maximum in comfort and functionality.</p>	<p>Choose the Manager if you are looking for a sturdy chair that will appeal to those who must face to face with people. The Manager is a comfortable yet good looking piece of furniture that will accommodate a wide variety of seating needs.</p>

*Include* multiple numbering sequences in the same document. Paragraph numbering options offer many styles, including bullets.

### PRICE LIST AS OF OCTOBER 1993

PRODUCT	STYLE	MODEL	MATERIALS	DIMENSIONS	COLORS	PRICE	
<b>CHAIRS</b>							
<b>CEO</b>		With arms	M394A	Steel/Leather	27"D"x28"W"x40-48H"	Black, Putty, Camel, Coffee, Navy, Forest.	\$800.00
		Without arms	M395	Steel/Leather	27"D"x24"W"x40-48H"	Black, Putty, Camel, Coffee, Navy, Forest, Bordeaux	\$600.00
<b>DIRECTOR</b>		With arms	M287A	Steel/Wool	22"D"x27"W"x34-40H"	Camel, Forest, Cranberry, Scarlet, Chocolate, Magenta, Charcoal, Brick, Azure	\$550.00
		Without arms	M288	Steel/Wool	22"D"x23"W"x34-40H"	Camel, Forest, Cranberry, Scarlet, Chocolate, Magenta, Charcoal, Brick, Azure	\$525.00
<b>MANAGER</b>		With arms	M215A	Wood/Tapestry	21"D"x26"W"x32-38H"	Blue, Red, Green, or Tan Multi-color Blend	\$440.00
		Without arms	M216	Wood/Tapestry	21"D"x22"W"x32-38H"	Blue, Red, Green, or Tan Multi-color Blend	\$420.00

*Create* tables with cells that bridge two or more cells. Rotate paragraphs within cells.

# Collaborate on Long Documents...

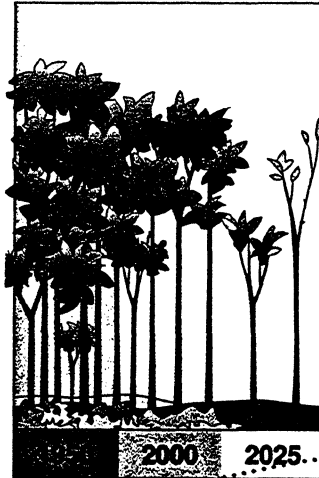
FrameMaker was designed to make short work of long documents. It has several powerful yet easy-to-use book-building features that streamline the process of constructing long documents from multiple files.

You may find yourself working with files created by different authors on different platforms. If the files were all created with FrameMaker, they are fully compatible and integrating them with no loss of data is a snap. Even if they're not FrameMaker files, filters allow you to incorporate them into a FrameMaker document by importing text and graphics from many other applications.

To help you manage working with many documents, you can have FrameMaker automatically compare two different versions of a document. When the comparison is complete, FrameMaker generates two files: a composite document that lets you see the differences side by side, and a summary document containing a general summary and a list of specific differences. You can choose to create hypertext links from the summary document to the pages where the actual differences occur.

## CHAPTER 15 The Disappearing Rain Forests

**M**ost tropical forests form a green band around the Earth's center extending roughly 10 degrees north and south of the Equator. Amazing as it may seem, these forests occupy less than eight percent of the Earth's entire land mass, yet they account for nearly half of all the growing wood on the planet and are the home for two-fifths of Earth's animal and plant species. It is because of the amazing diversity of species that the rain forests are so important to humans, for we rely on these for agriculture, medicine, and industry.



**15.1 Natural source of products**  
At least a quarter of all pharmaceutical products are derived from tropical rain forests. An even more impressive statistic, when you consider that less than one percent of all Amazon plants have been intensively examined for their medicinal properties.

Tropical rain forests have provided us with treatments for leukemia, Hodgkin's disease, and breast, cervical, and testicular cancer, as well as a wide array of analgesics, antibiotics, heart drugs, enzymes, hormones, diuretics, anti-parasitic compounds, sleep treatments, dentifrices, laxatives, dysentery treatments, and anticonvulsants. Of the 90,000 plant species in Latin America, only 10,000 have been tested for anticancer properties. Scientists expect that at least 10 percent of the untested plants will reveal some form of anticancer activity. A species of the alexa tree, found in the northern Amazon basin and Madagascar, contains the plant alkaloid casanoperrimine, which is being studied at St. Mary's hospital in London as a possible treatment for forms of AIDS.

Vast quantities of rubber from the rain forests provide such everyday items as tires, gum, and running shoes.

**15.2 Thousands of diverse species**  
The rainforests are the most complex and diverse ecosystems.

532 Our Changing Earth

*Number* pages, sections, tables, and illustrations, or insert cross-references. FrameMaker automatically updates and maintains autonumbering and cross-references within and between files.

*Import* page layouts, paragraph and table formats, color definitions, variable definitions, and more to quickly update formats in a chapter or in an entire book.

## The Turbulent Oceans

by Mike Ratener

Most of the Earth's surface, as much as two-thirds, is covered by the oceans. The oceans are a major generator of weather patterns as well as home to the majority of the Earth's animal and plant life. Many scientists believe that all forms of life on Earth originated in the sea. We have only recently begun to fashion our need to protect the oceans as a way to keep the planet alive and healthy.

1.1

Relatively small currents of ocean water warmer or cooler than the water immediately surrounding them, seem to affect the global weather system out of all proportion to their size and far from their own location. The most well-known of these currents, detected by climatologists using satellite sensors, are El Niño and La Niña. They are reverse elements in a meteorological phenomenon, the largest portion of which takes place in the Pacific ocean just south of the equator. Although scientists do not know what causes the warming or cooling, these currents may be related to small but dramatic increases in atmospheric pressure called the "southern oscillation." Either pattern may be present for a few years at a time and then dissipate. During an El Niño period, the affected area's surface temperature may warm by as much as six degrees. As a result of this warming in 1982 and 1983, winter weather in the eastern section of the United States was unusually mild, while the country west of the Rockies was unusually cold.

1.2

At one time, scientists and the general public alike believed that the oceans were so vast that nothing mankind could do could have any lasting impact on them. We now know that this is not the case, and western civilization is the biggest culprit, causing widespread chemical and physical pollution and the destruction of wetlands and the advent of plastic gill nets has made it possible for a small number of fishing boats to extract a huge amount of living marine life from the ocean at one time. Along with the fish being hauled, dolphins and other fish and mammals are caught. If they do not perish, they may manage to escape—with injuries. Attempts to outlaw this type of fishing have been somewhat successful, but international cooperation is far from complete.

The growth of tourism, particularly in tropical areas, has wreaked havoc on coastal waters. Many coral reefs are showing signs of stress, and some may already be doomed.<sup>1</sup> Increased maritime traffic, both commercial and recreational, is resulting in a disturbance of the plankton-rich areas alongside many continents that are the nurseries for thousands of species of ocean-based life forms.

Computer models predict that within 10 years, thousands of these species will be extinct if their habitat is not protected.

1.3

Relatively small currents of ocean water, warmer or cooler than the water immediately surrounding them, seem to affect the global weather system out of all proportion to their size and far from their own location. The most well-known of these currents, detected by climatologists using satellite sensors, are El Niño and La Niña. They are reverse elements in a meteorological phenomenon, the largest portion of which takes place in the Pacific ocean just south of the equator. Although scientists do not know what causes the warming or cooling, these currents may be related to

<sup>1</sup> *Journal of the International Oceanographic Society*

*Create* headers and footers for two-page layouts in many styles, using predefined variables such as page number, chapter name, or section title. Put graphic design elements in headers or footers.

## CHAPTER 16 The Turbulent Oceans

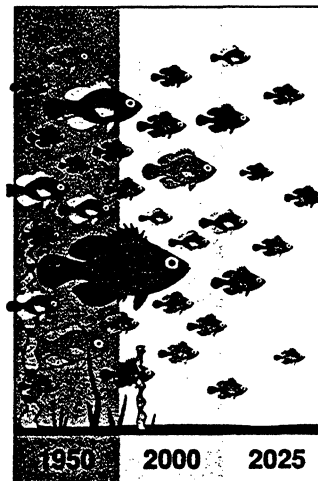
Most of the Earth's surface, as much as two-thirds, is covered by the oceans. The oceans are a major generator of weather patterns as well as home to the majority of the Earth's animal and plant life. Many scientists believe that all forms of life on Earth originated in the sea. We have only recently begun to fashion our need to protect the oceans as a way to keep the planet alive and healthy.

### 16.1 Changing temperatures and currents

Relatively small currents of ocean water warmer or cooler than the water immediately surrounding them, seem to affect the global weather system out of all proportion to their size and far from their own location. The most well-known of these currents, detected by climatologists using satellite sensors, are El Niño and La Niña. They are reverse elements in a meteorological phenomenon, the largest portion of which takes place in the Pacific ocean just south of the equator. Although scientists do not know what causes the warming or cooling, these currents may be related to small but dramatic increases in atmospheric pressure called the "southern oscillation." Either pattern may be present for a few years at a time and then dissipate. During an El Niño period, the affected area's surface temperature may warm by as much as six degrees. As a result of this warming in 1982 and 1983, winter weather in the eastern section of the United States was unusually mild, while the country west of the Rockies was unusually cold.

### 16.2 Not forever renewable

At one time, scientists and the general public alike believed that the oceans were so vast that nothing mankind could do could have any lasting impact on them. We now know that this is not the case, and western civilization is the biggest culprit, causing widespread chemical and physical pollution and the destruction of wetlands and







# Distribute *Documents for Viewing*

FrameViewer is a companion product to FrameMaker that provides comprehensive electronic viewing and distribution of FrameMaker documents. Distributing documents online is efficient and economical—you can quickly update information so it's never out of date.

FrameViewer doesn't display static, fiche-type images of document pages the way other products do; it displays real documents you can navigate through, copy from, and print.

To create interactive documents, you create documents in FrameMaker that contain information connected by hypertext links, and then distribute read-only versions using FrameViewer.

By pointing the mouse and clicking active text, viewers can jump to related information within and between documents.

*Save* any FrameMaker document in view-only format, then simply open it in FrameViewer. Hypertext links you added to the document are ready to use; no special post-processing is required.





*FrameViewer* documents are not just images; they are complete documents. You can scroll through them, zoom in or out, and navigate using hypertext links.

*Because* FrameViewer can take advantage of multimedia applications available on some platforms, viewers can activate hypertext-linked audio or video material with the click of a button.



# Your Path to Productivity

To help you get up and running quickly with FrameMaker 4, here's a productivity plan for using the documentation most effectively.

If you install FrameMaker from a CD, most or all of your documentation may be in online rather than printed form.

## *Installing FrameMaker 4*

### **Installation manual**

If you're responsible for installation and licensing at your site, read *Installing Frame Products* first. It includes instructions for installing files, setting up a working environment, setting up licenses, and upgrading from an earlier release. (On Windows and Macintosh platforms, *Installing FrameMaker* is included in the *Getting Started* manual.)

## *Learning FrameMaker 4*

### **Conceptual overview**

*Welcome to FrameMaker*, an online conceptual overview, is available through online Help. On Windows and Macintosh platforms, it starts automatically the first time you launch FrameMaker. The overview provides a brief description of the four simple concepts that make creating and revising FrameMaker documents much easier. You may find it especially helpful if you've never used any version of FrameMaker before.

### **Tutorial**

If you're new to FrameMaker 4, we recommend you complete the tutorial *Learning FrameMaker* in the *Getting Started* manual. It covers many of the basic tasks you need to know before you start working on your own documents.

### **New and changed features**

If you're a FrameMaker 3.0 user, open the online manual *What's New* to find out about new and changed features in FrameMaker 4 and where to look for more information. *What's New* is available through online Help.

## *Using FrameMaker 4*

### **What to look for in print**

#### **User's manual**

*Using FrameMaker* is a comprehensive guide to FrameMaker tasks and concepts. Refer to it to refresh your memory about a procedure or to learn how to accomplish a new task.

#### **Quick task reference**

The *Quick Reference* for FrameMaker contains abbreviated instructions for many often-used tasks and lists keyboard shortcuts.

### **What to look for online**

#### **Online Help**

Online Help includes indexed and context-sensitive reference information on commands, dialog boxes, and keyboard shortcuts. It also provides access to the online manuals and files described below.

#### **Last-minute information**

The online manual *Release Notes* provides important information on FrameMaker that could not be included in the printed manuals.




## Templates

Predesigned templates for letters, memos, reports, a newsletter, outlines, books, and other types of documents allow you to start writing immediately. You can browse through samples of each predesigned template by using online Help or by choosing New from the File menu.

### Samples and clip art

These files provide examples of different types of documents you can create with FrameMaker, as well as clip art you can cut and paste. They are available through online Help.

### Filters




The online manual *Using Frame Filters* provides information on how to convert documents to and from FrameMaker and other applications.

### Multiple-platform use

The online manual *Using Frame Products on Multiple Platforms* describes how the UNIX, Macintosh, and Windows versions of FrameMaker 4 differ.

### Customizing setup

On UNIX platforms, the online manual *Changing Setup Files* gives you information on customizing your FrameMaker environment. On Windows platforms, this manual is called *Customizing Frame Products*. This manual is not available on Macintosh platforms.



### Application management

The online manual *Managing Frame Products* gives you information on the files contained in this release, on FrameMaker scripts and environment variables, and on how to add fonts.

### Maker Interchange Format (MIF)

The online manual *MIF Reference* explains the MIF text format, which allows FrameMaker to exchange information with other applications while preserving graphics, text, and formatting. On Windows and Macintosh platforms, this reference is available upon request.

### Maker Markup Language (MML)

The online manual *MML Reference* describes a markup language you can use with any standard text editor to create simple FrameMaker documents. On Windows and Macintosh platforms, this reference is available upon request.

# Platforms and System Requirements

Platform	Model	Memory	Disk Space	Operating System	GUI or Window Environment
<i>PC/Windows</i>	Any 80386-class CPU or later	: 8MB required : :	: 10MB minimum, 20MB suggested : :	: DOS 3.3 or later : :	: Microsoft Windows 3.1 (running in 386 enhanced mode) : :
<i>Macintosh</i>	Any 68020-class Macintosh or later	: 5MB minimum (3MB MultiFinder partition); 8MB suggested : :	: 8MB minimum, 18MB suggested : :	: System 6.0.7 or later; System 7 or later required for System 7 functionality : :	: Macintosh : :
<i>Sun</i>	SPARC workstation or compatible	: 16MB minimum; 40MB swap space required : :	: 20MB minimum, 90MB suggested : :	: Sun OS 4.1 or later; Solaris 2.1 or later : :	: X Window System X11R4; Open Windows 3 : :
<i>HP</i>	9000 series (300,400,700,800)	: 16MB minimum; 40MB swap space required : :	: 20MB minimum, 85MB suggested : :	: HP-UX 8.0 and 9.0 : :	: X Window System X11R4 or X11R5 : :
<i>IBM</i>	RS/6000	: 16MB minimum; 40MB swap space required : :	: 20MB minimum, 80MB suggested : :	: AIX 3.2.3 : :	: X Window System X11R4 or X11R5 : :



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P/N 32-02020-01 8/93 150M