There's something powerful and even mysterious about the printed word. When you put ideas onto paper, they take on authority and help you communicate more effectively.

Today, printed matter involves much more than just words. Drawings, photographs, charts, symbols and other graphics play as vital a role as text in many publications.

Electronic publishing allows you to arrange and merge text and artwork electronically – a breakthrough in print communications.

Interleaf develops high-quality publishing tools with the power and functionality to help organizations produce the full range of corporate documents – from the simplest memo to whole libraries of complex, heavily illustrated publications.

In fact, Interleaf goes beyond publishing, by giving you the means not only to create documents, but to manage them as databases of text and graphics that are created, revised, distributed, annotated, printed, stored and reused within increasingly heterogeneous computing environments.

By easing the creation, presentation and exchange of information, Interleaf – one of the pioneers of electronic publishing – is pioneering the future of corporate communications.
Interleaf electronic publishing software lets you compose, edit and print striking documents – at the desktop, not at the printshop. You create typewritten text and eyecatching graphics – detailed diagrams, business charts, freehand sketches – all with Interleaf. Meanwhile, the software «cuts and pastes» all together for you, instantly and automatically. From a brainstorm to printed form, every step of the way is electronic. You can handle documents even thousands of pages long with consummate skill, because into every piece of software Interleaf packs virtually unlimited power – to meet the demanding needs of the world's most sophisticated publishing environments.
Eleven Reasons Why Interleaf is the World Leader in Electronic Publishing

1. **SAVINGS**
   Today, tens of thousands of corporate, government, and academic professionals use Interleaf to produce handsome documents at up to half the cost and one-fourth the time of traditional methods. Interleaf makes this possible by letting you handle all stages of processing a document electronically - writing, drawing, designing, distributing, revising, printing, and storing.

2. **POWER**
   Interleaf stands apart from other publishing programs in sheer strength. Interleaf supplies the power needed to publish extremely long, graphics-intensive documents and provides built-in support for workgroup publishing, advanced document management and electronic document distribution. With Interleaf, you never run out of power.

3. **THREE-IN-ONE**
   Interleaf combines word processing, graphics, and page layout in one piece of software, so you don't have to fumble between software packages. And unlike desktop layout programs, Interleaf's page layout is automatic, making last-minute revisions a snap.

4. **MULTILINGUAL**
   If your business is international, you can put it in their words, because Interleaf comes in a variety of languages. And Interleaf can work hand-in-hand with existing translation systems.

5. **EASE OF USE**
   Most users feel proficient with Interleaf software within days or weeks, even if they've had no computer experience. For you, that means business-as-usual as your employees get acquainted with Interleaf.

6. **RELIABILITY**
   Once you're under way, you can depend on Interleaf to stand up to your demands. Interleaf has one of the highest levels of reliability in the industry, because it has been put to the test over many years in production publishing environments.

7. **CHOICES**
   Interleaf fits well into existing computer strategies, because it
   - Runs compatible software on the full range of corporate computers - from the low end to the high end.
   - Runs on industry-standard hardware, including computers from Apollo, Apple, Digital, Hewlett-Packard Co. (available fall 1989), IBM and Sun Microsystems.

8. **INTEGRATION**
   Such a broad integrating capability constitutes a breakthrough in corporate communication. By putting your company's diverse computers on speaking terms, your employees and departments no longer have to work as isolated units. They can share copy, art, tasks and expertise as never before, reducing redundant work and dramatically improving efficiency and consistency.

9. **CONTROL**
   With seamless integration, Interleaf gives you control over the way information - today's corporate currency - is gathered, processed and disseminated to those who need it, by enabling you to
   - Distribute Interleaf documents electronically on low-end PCs for review, search-and-retrieval and_via printing.
   - Link your Interleaf system directly to your centralized database. For example, a leading computer-products supplier connects Interleaf to its telemarketing database to publish a price catalog automatically.
   - Assemble customized publications by making your documents themselves a database of text and graphics to be drawn on at will.

10. **GROWTH**
    A publishing system is a big investment. You need to be confident that the system you choose can evolve as your company evolves. A system that ensures a secure path to future growth - with opportunities to add the way to add tools you'll need as times and technology change. Interleaf offers the safest growth path in the electronic publishing industry, by providing:
    - Flexibility of hardware and software
    - The widest variety of tools for specific tasks
    - Integrated publishing, distribution & database management
    - Compatible means to tie it all together
    - Fast payback - often within six months to a year
    Only Interleaf can provide this level of flexibility, functionality and security.
The Interleaf Corporate-Wide Solution

A synergistic approach to solving a complex, real-world problem.

THE PROBLEM: In today's organizations, the same document often has to be worked on by many individuals - engineers, marketers, illustrators, lawyers, financial executives, even those in remote locations such as the factory floor or international offices. But these professionals often use computer systems that cannot communicate with one another.

THE SOLUTION: By running compatible software on the full range of IBM and non-IBM business computers, Interleaf can provide a single platform that allows people using different computers to easily and electronically create, share, revise and reuse documents.

THE BENEFIT: Productivity soars as people work together more effectively - a crucial competitive advantage.
The Interleaf Family of Products

INTERLEAF ELECTRONIC PUBLISHING SOFTWARE

Recognized as the standard for corporate publishing, Interleaf integrates word processing, graphics and automated layout in one easy-to-use, function-rich package. For the most sophisticated applications, Interleaf offers powerful modules for document management, advanced graphics, multi-page tables, MailSpec publishing and other specialized needs. Interleaf runs on more industry-standard computers than any other electronic publishing software, including Apollo, Digital, Hewlett-Packard (available fall 1989), IBM and Sun workstations, DEC-based 8086 machines from IBM and others, and the Apple Macintosh II.

PCEDITOR

Running on low-cost IBM PCs and compatibles, PCEditor text processing software lets your writers create and share Interleaf-compatible text with your Interleaf workstations.

MAINFRAME PUBLISHING

For those with enormous publishing, printing and archiving needs, Interleaf's system integration group can provide publishing software of unprecedented power for IBM and Digital mainframes.

VIEWSTATION

With Viewstation software, users can view, search, annotate and print fully WYSIWYG (what you see is what you get) Interleaf documents - but not alter the original. Designed for electronic distribution of documents, Viewstation is also an effective electronic information search-and-retrieval tool.

SYSTEM INTEGRATION TECHNOLOGIES

For managing the development and distribution of extremely long documents such as New Drug Applications and aircraft maintenance manuals, Interleaf provides the Relational Document Manager, a specialized database tool for project management. For quick search-and-retrieval, users can attach a CD-ROM (compact disc-read only memory) drive to a Viewstation terminal to provide per-disc as many as 50,000 pages of text and graphics in WYSIWYG format.

OUTPUT

Interleaf drives PostScript, Interfless and other popular printers. Interleaf's own RillPrint laser printers are designed to work optimally with Interleaf software, ensuring you the best printer performance available. For the highest-resolution output, Interleaf drives a number of popular imaging typesetters, including Compugraphic III, Linotype Linotronic and Monotype.

SCANNERS

Interleaf supports the most popular line-art and gray-scale image scanners. Scanned line art and photographs can be cropped, sized, rotated, zoomed and painted with a pixel editor. Users can adjust the contrast, clone part of an image onto another part and add text and other graphics.
The Many Faces of Interleaf: Diverse Applications

Technical manuals are not only read, but pored over—again and again. Your documentation must be clear, concise and well-designed. It must be scrupulously accurate. And it must be ready when the product ships. Interleaf helps you meet these needs.

NASA'S SPACE STATION FREEDOM Program. Interleaf software is being installed at all NASA sites involved in the Space Station Freedom Program. NASA Headquarters, Goddard Space Flight Center, Johnson Space Center, Kennedy Space Center, Langley Research Center, Lewis Research Center and the Marshall Space Flight Center are using Interleaf for technical documentation.

Mountains of paperwork circulate through offices every day. Memos, correspondence, reports, presentations, newsletters, agendas, proposals and more. Automating your paperwork with Interleaf can save time, money and frustration.

ARTHUR D. LITTLER (Cambridge, Massachusetts) acquired Interleaf to integrate the consulting firm's wide range of software and hardware—including PCs and Macintoshes—with its workstation-based publishing operation. In conjunction with laser printers and a Linotronic typesetter, Communications Services uses Interleaf to create high-quality presentations, proposals, forms, display ads and other marketing materials in half the time it used to take.

Many contractors to the U.S. government must soon comply with CALS (Computer-aided Acquisition and Logistics Support), the U.S. Department of Defense (DoD) standards for the submission of electronic documents. Interleaf leads the electronic publishing field in providing systems that help you meet CALS standards.

UNION DEFENSE SYSTEMS has standardized on Interleaf for CALS-compliant electronic publishing. "By 1990, we knew we had to deliver 100% of manuals as an electronic database to comply with CALS," says the manager of Publications Support Services (Eagan, Minnesota). "That's the principal reason we acquired Interleaf." All told, seven U.S. divisions of Union Defense Systems publish—and share—documents using Interleaf. In Eagan, time and cost to turn around proposals, technical documentation and marketing materials have been cut in half.

By integrating Interleaf with computer-aided software engineering tools, software developers can generate documentation containing text and graphics—within a completely automated software engineering process.

CASE studies. Interleaf database publishing lets you pull data directly from your mainframe database into Interleaf and transform it automatically into a published document.

TEXAS INSTRUMENTS Semi-Conductor Group (Dallas, Texas) selected Interleaf for its database publishing and electronic distribution capabilities. The group draws ASCII data and vector graphics automatically from a CAD database into Interleaf, channels it into engineering data sheets and distributes drafts electronically to engineers and Central Publishing for final output. Generation of composed data sheets now occurs in two to five hours—a process that used to take three months.

Many organizations use Interleaf primarily for graphics applications: display ads, presentation charts, brochures, highly visual newsletters and other intricately designed documents.

GETE DIRECTORIES CORPORATION (Dallas, Texas) uses a large Interleaf installation of workstations, typewriters and laser printers to create roughly 400,000 Yellow Pages display ads per year. GTE Directories' ads demand not only easy text entry, but also freehand drawing, diagramming and image editing of scanned photos and illustrations. Interleaf enables the company to handle all of these functions electronically.
High-Performance Customer Service

Interleaf is dedicated to helping you get the highest possible performance out of your Interleaf system, by furnishing you with prompt, premium-quality service before, during and long after installation.

SYSTEM INTEGRATION

According to your needs, Interleaf will design and integrate Interleaf systems with existing and/or new hardware and software, including customizing cost-effective systems to meet unique documentation, network communications, document database management and data translation requirements.

TRAINING

Interleaf offers in-depth software training at Interleaf training centers and at customer locations internationally. Courses, which can be individualized to meet special needs, cover Basic Features, Document Management, Graphics and other topics.

CUSTOMER SUPPORT

Through Interleaf sales offices, subsidiaries and customer support centers, Interleaf strives to supply rapid, effective solutions to your problems.

Why the World's Leading Organizations Choose Interleaf
"With Interleaf, we can give a typeset look to jobs that were typed or word processed before. And we can design a consistent style across publications, which enhances our image. We have a commitment to excellence which this technology helps us to fulfill."

Bob McDonald
Computer Systems & Engineering Standards Manager
Spar Aerospace
Toronto, Ontario, Canada

Boeing Aerospace Co. (Seattle, Washington) has integrated an Interleaf system of eight workstations, two laser printers and a line-art scanner into its existing BOCAPS (Boeing Computer-Aided Publishing System). BOCAPS blends word processing files and CAD drawings with Interleaf text and graphics - all on the Interleaf workstations - to automate the production of operating and maintenance manuals complying with U.S. DOD Milspecs, including 38754B and CALS.

Spar Aerospace Ltd & Remote Manipulator Systems Division (Toronto, Ontario, Canada) chose Interleaf to be able to deliver documentation in electronic form, a requirement of NASA's Space Station Freedom Program (Spar is the prime contractor for Canada's contribution to the Program). Production time to create proposals, presentations, technical papers, manuals, display ads and other publications related to the robotic systems it manufactures has been cut by 50%.

Lockheed Missiles and Space Co., Space Systems Division (Sunnyvale, California) uses Interleaf in its Data Systems Engineering group during every stage of product development, from initial sketches to final manuals. CASE projects generally last years and involve hundreds of engineers writing hundreds of thousands of lines of code.

"Interleaf has helped us to integrate Honeywell's wide variety of hardware and software. When Honeywell in Corvallis, Oregon needed a division logo, we scanned the logo into Interleaf on a Sun workstation, saved the document in Interleaf ASCII format and sent the works via modem to their Digital VAXStation 2000 running Interleaf. The transfer worked very well."

Steve McDermott
Software Applications Engineer
Honeywell Inc.
Minneapolis, Minnesota

Moroney Government Electronics Group (Scottsdale, Arizona) uses Interleaf to publish technical manuals, engineering reports and high-level presentations. Interleaf merges text from word processors and engineering CAD drawings from a variety of CAD and CASE software packages. Final Interleaf documents can be downloaded onto a mainframe for storage and printing on high-speed laser printers. Thus, virtually the entire pre-press process is electronic, and documentation production time has been speeded by 30-70% where Interleaf has been installed.

Holleitner-Packard Manufacturing Test Division (Loveland, Colorado) acquired Interleaf to merge ASCII files from the company's PCs and a mainframe - as well as CAD drawings designed on HP 8000 300 Series computers - with text and graphics created on Interleaf. Says the system's manager: "We chose Interleaf because it had the most capabilities with text and graphics in one software package. Overall, we're more than 50% faster than we were three years ago. We now get documents out faster and that's appreciated in the field."

Thread-EMI Computer Software (Sungby-on-Thames, Middlesex, United Kingdom) is documenting its "fourth-generation" programming language with Interleaf. Two workstations running Interleaf access files on a mainframe through a window on the Interleaf desktop. The files are then electronically cut and pasted into Interleaf for merging with graphics and printing.

**OTHER INTERLEAF USERS:**

**BRITISH AEROSPACE**

**MILITARY AIRCRAFT**

**EUROPEAN SPACE AGENCY**

**FORD AEROSPACE & COMMUNICATIONS**

**GENERAL DYNAMICS**

**HONEYWELL SPACE & STRATEGIC ADVANCED**

**HUGHES AIRCRAFT**

**LAEROSATLANTIC**

**MCDONNELL DOUGLAS**

**MILITARY TEST INSTRUMENTATION**

**NORTHROP**

**ROCKWELL INTERNATIONAL**

**UNITED TECHNOLOGIES / Sikorsky AIRCRAFT**

**OTHER INTERLEAF USERS:**

BellSouth Services

British Telecom

Cambridge Research

Crawford Electronics

Data General

General Electric

Hitachi Computer Products

NCR Information Systems

Norden Computer AG

Pitney Bowes

Plessey Electronics Systems

Sorin

Wattengham Electric
"Interleaf is able to tie together the diverse computer worlds we have here. As a result, our grant proposal output has increased by a factor of three or four. In fact, we have succeeded in the grant world because Interleaf has allowed us more time for research and less for writing and publishing."

Thomas Sierak
Computer Scientist
Bio-Medical Sciences Division

Lawrence Livingston
National Laboratory
Livermore, California

U.S. Bureau of Census (Suitland, Maryland) uses Interleaf for all graphics, charts, and covers for the 1,000-5,000 reports generated by yearly census data. And it will use Interleaf for many of the 1990 Census studies. Complex charts—some with more than 1,000 plot points—are created from data brought into Interleaf from a mainframe via PCs. Updating just one document—the monthly Current Reports—has been trimmed from two hours to just eight minutes.

The North Carolina Centre, Research (Raleigh, North Carolina) selected Interleaf to automate the creation of daily session minutes, because Interleaf is able to collect data electronically from the Assembly's existing word processors and mainframes on a network serving nearly 200 other devices. With Interleaf, creating a camera-ready draft of one session's activity has been cut from about six weeks to just one day.

U.S. Department of Agriculture
Rural Electrification Administration (Washington, D.C.) has slashed nearly 25% of costs and 50% of production time of reports for congresional inquiries, private research groups, and internal use. Despite system installation and staff training time, the REA completed two 220-page annual reports on its activities almost four weeks faster on Interleaf than with previous methods.

OTHER INTERLEAF USERS:

- Defense Advanced Research Projects Agency (DARPA)
- Deutsche Bundespost
- Federal Reserve Board
- Interstate Commerce Commission
- National Oceanic & Atmospheric Administration
- Pentagon Crisis Center
- Public Works of Canada
- UK. Aeronautics Research Establishment
- U.S. Department of State
- U.S. Department of Transportation
- U.S. Postal Service
- The World Bank

"Our researchers run Lotus 1-2-3 or other spreadsheet programs on PCs, then electronically send the data to Interleaf, where it's fed into pre-existing chart templates. We adjust the size and design of the charts but never re-enter data. It's made life much easier."

Grace Has
Graphics Manager
Economics Department

Scotiabank (Toronto, Ontario, Canada) uses Interleaf in its Economics Department to publish reports such as the bi-weekly Treasury Report, monthly Business and Finance Report and numerous international, quarterly, and market-share data reports. The system, which integrates word processor and PC files, has helped the department double output and save thousands of dollars in typesetting.

Robertson, Collins & Stephens (San Francisco, California) runs Interleaf in its Corporate Finance Department to create "live books"—presentations for Initial Public Offerings that average 100-150 pages and include text, charts, tables, and other graphics. Spreadsheet and ASCII data files can be read into the system, which gives the department total control over its timely presentations. "It's very handy for proofing," says an RCS financial analyst. "Last-minute alterations can be made in an instant."

OTHER INTERLEAF USERS:

- Bank of California
- Banque Trust
- Cigna / Connecticut General Life Insurance
- Citicorp
- Cooper & Lybrand
- Credit Lyonnais
- Goldman Sachs
- Lloyd's Bank
- London Stock Exchange
- Marine Bank Service
- Morgan Stanley
- Pacific Mutual Life Insurance
- Prudential
- Standard Life Insurance
"The major impact of the Interleaf system is that it has changed the way we think. Our productivity gains have been in mental capacity and the clarity of the way we do things."

Raleigh Byawyn
Administration
Management &
Computer Services

The Massachusetts Institute of
Technology, Communications Office
(Cambridge, Massachusetts) will use
Interleaf's database-publishing
techniques to automate course
catalog production by transferring
the registrar's course listing database
directly into Interleaf format. The
Communications Office publishes
correspondence, schedules, calendars
and catalogs with Interleaf, while the
university's Plasma Fusion Center
uses three Interleaf workstations to
support 30 physicists in preparing
journal articles.

The Center for Economic Research
part of the Swiss Federal Institute of
Technology, Zürich (Zürich, Switzerland),
has installed Interleaf
University Publishing Software on
Apollo workstations to create eco-
nomics research reports up to 700
pages long. Containing complex
dynamical formulas created with
Interleaf's equation package, these
reports also integrate text with
graphics and charts.

The National University
of Singapore, Department of
Information Systems and Computer
Science uses Interleaf to aid lecturers
on high-technology topics. By
integrating text, graphics and mathemat-
ical equations in their reports and
hand-outs, the lecturers have been
able to put out documents that are
more interesting and of higher
quality.

A sampling of Interleaf
users in a number of other
industries shows how
useful and cost-effective
Interleaf software can be
for office professionals
working in a broad range
of applications.

A
collection
of
other

INTERLEAF USERS:

Baylor College of Medicine
Brown University
Carnegie-Mellon University
Cornell University
Cranfield Institute of Technology
Duke University
Harvard University
Johns Hopkins University
Oxford University
Rensselaer Polytechnic Institute
Syracuse University
University College (London)
University of Pennsylvania
University of Virginia
Yale School of Medicine

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users in a number of other
industries shows how
useful and cost-effective
Interleaf software can be
for office professionals
working in a broad range
of applications.

AUTOMOTIVE

BMW (Munich, West Germany)
uses Interleaf in the creation of user
manuals for various BMW automo-
bile models. At BMW Motorsport
GmbH, user manuals, as well as
maintenance books containing parts
lists, are also produced with Interleaf
workstation software.

BOOK PUBLISHING

Simon & Schuster (New York, New
York) produces an annual 1600-page
college guidebook with Interleaf
database publishing. The College
Research Group, the book's creator,
automatically converts ASCII text
from a supermicrocomputer into
finished pages on Interleaf. Using
traditional publishing, competitors
have to freeze data in December.
With Interleaf database publishing,
the Group adds and revises as late as
May, making The Right College five
months more timely.

CONSUMER PRODUCTS

GTE SynchroNet (Tienen, Belgium)
prepares catalogs, installation
manuals, marketing brochures and
sales reports for its electronic-lighting
products using Interleaf workstation
and PC Editor software. Using a
science and data links, the documenta-
tion department imports
CAD/CAM drawings and want
processing files to Inforleaf for
merging with Interleaf text and
graphics. The first output is a catalog
of electronic-lighting products that
provides at least the current status of
the new system.

INTERLEAF USERS

IN PHARMACEUTICALS &
CHEMICALS:

Bayer AG
Buck Laboratories
Boehringer-Ingelheim
CLAIROGRAPHIC
Gavilan Corporation
ICI Advances
Mallinckrodt
Mass Pharmaceuticals
Merck
Moore Toxicology
Rhone-Poulenc
Sandoz
Union Carbide
Wright Laboratories
Interleaf and Users: A Lively Exchange

Through a diverse network of two-way communications, Interleaf encourages a fruitful exchange of ideas with Interleaf customers to strengthen ties between Interleaf and its user community and to advance electronic publishing technology per real-world needs.

INTERLEAF USER GROUPS

Interleaf User Groups are proliferating. Through regular meetings and newsletters, these groups share ideas and expertise among Interleaf users.

INTERLEAVES NEWSLETTER

Interleaf’s quarterly newsletter, Interleaves, serves the largest user group of all: the Interleaf community worldwide. Interleaves covers new products, strategic developments, customer case histories, user tips and other useful information.

CUSTOMER SEMINARS

Interleaf users with advanced applications meet regularly with Interleaf engineers to discover ways they can improve workflow and expand into new applications. These in-depth forums often focus on specific applications, such as database management or financial printing.

INTERLEAF MILSPEC UPDATE

Focusing on the latest developments in the CALS program and Interleaf's implementation of CALS and related standards, the Interleaf MILspec Update contains clear, concise articles designed to make these complicated standards easily accessible to government contractors who must comply with them.
Interleaf

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Founded in 1981, Interleaf shipped its first product in 1984. Today, Interleaf is a multinational corporation with tens of thousands of licensed users. Interleaf has sales offices, subsidiaries and distributors in the U.S., Canada, Europe and Asia/Pacific.

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