

LisaGraph makes clear, concise graphs from even the most complex data. Moreover, LisaGraph creates those graphs automatically. Enter data in LisaGraph's data table — alongside, a presentation quality graph appears instantly. And it's easy, because there's no need to learn a graphics language.

LisaGraph makes bar, line, pie and scatter graphs. You can transfer LisaGraph charts and graphs into LisaDraw for extensive customization and create graphs from LisaCalc tables.

In less than 30 minutes you'll be doing useful work with LisaGraph. Lisa's revolutionary Graphics Mouse Technology™

replaces confusing computer commands with simple graphic images. Graphics, together with the mouse, a simple selecting device, let you create, revise, and print documents intuitively. And because basic operations work the same way in all Lisa™ applications, you'll learn other applications in even less time.

LisaGraph simplifies complex data. Moreover, it simplifies computer graphing, which in turn simplifies your real work—making decisions and communicating those decisions to others.

Give your data strong, graphic impact.

- Data entered into the table is plotted automatically on a graph.
- Both data and graph are always visible on the screen.

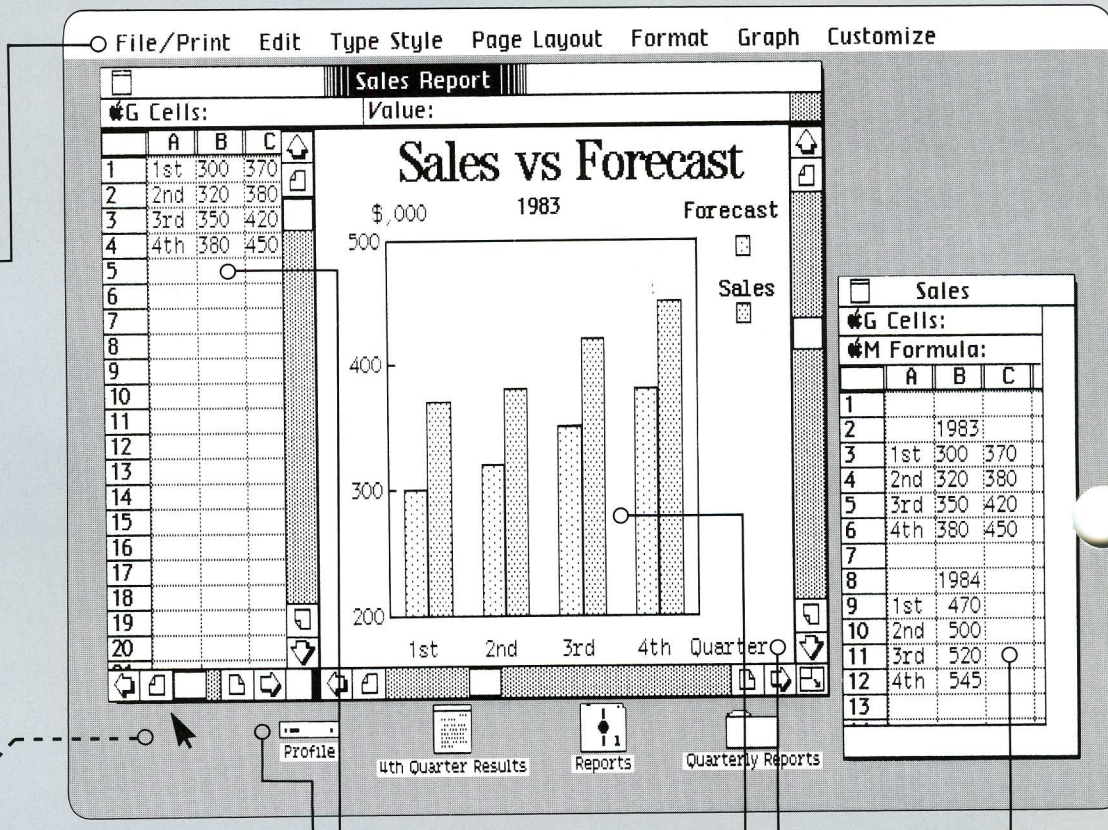
Find the most effective graphic formats almost instantly.

- LisaGraph creates bar, line, mixed bar/line, pie, and scatter graphs.
- You can change graph types instantly without touching the keyboard. Just use the mouse to select the graph of your choice.

LisaGraph displays all your data on the screen. Everything is always visible—your data entries, the graph itself, and all program functions. Simply use the mouse to point to what you want, press the mouse button, and LisaGraph does the rest.

Menu Bar All LisaGraph functions are selected from the menu bar. To print a document, for example, just move the mouse and select PRINT from the menu. Once printing is under way, you may continue working with Lisa, either in the same document, or in another application.

Mouse/Pointer The mouse is a palm-size device that controls Lisa's pointer. It replaces all confusing special function keys and commands. The mouse is connected to Lisa by a thin cable. When you move the mouse, Lisa's pointer matches the movement on the screen.



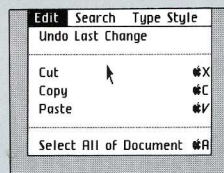
Desktop Manager The Desktop Manager uses graphic symbols such as these to coordinate all the system's operations. For example, to work on a document, simply use the mouse to select an existing document or create a new one. When you're finished, use the mouse to put the document into a folder. The Desktop Manager also enables you to work with more than one document at a time.

Data Table Graph data is entered directly into the data table. Point to the table's cells with the mouse, then type.

LisaCalc More than one Lisa document may be on the screen at one time. To move information from LisaCalc to LisaGraph for example, simply use the mouse to select COPY from the EDIT menu. When you're ready to transfer the information into another document, select PASTE and your data is transferred—you don't even have to touch the keyboard.

Scrolling To view another part of your LisaGraph document, simply use the mouse to select the arrows or pages in the corners of the document. Similarly, to stretch or contract the document, use the mouse to move the box at the bottom right-hand corner.

Graph Area As soon as data is entered, LisaGraph automatically makes it into a bar graph. Data remains conveniently displayed next to the graph. The graph plots up to eight different sets of data and 2,000 data points.



Examine "What if?" possibilities — and see the scenarios graphed automatically.

- Data changes are replotted immediately.
- Revising data is elementary. Select with the mouse, then retype.

Easily edit and customize any graph's layout.

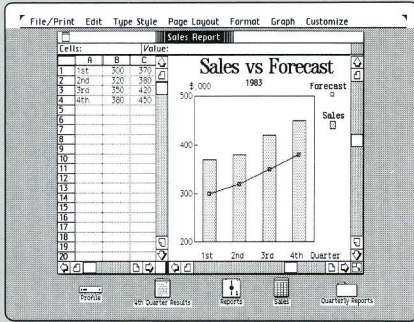
- Edit all elements of the worksheet—graph title, subtitle, axes labels, and footnotes.
- Add titles and annotations anywhere on the graph.
- Transfer your graph into LisaDraw to customize it further.

Include crisp, clear printouts in your reports or presentations.

- Quickly and easily bring in LisaCalc values for instant plotting—all without touching the keyboard. Move LisaGraph values into LisaCalc just as easily.
- A variety of timesteps, including large presentation-size styles, gives a typeset look.

What you see on the screen is exactly what you get on the printed page.

- Lisa's revolutionary visual fidelity is exactly reproduced by Apple's high-resolution Dot Matrix and Daisy Wheel Printers.



Labels for the x and y axes are supplied automatically, from information you've provided in the data table. You can add graph titles, subtitles, footnotes, legends, and floating labels—all in different timesteps, if desired.

Working With LisaGraph

- Changing data is elementary. Select with the mouse and retype.
- Graphs are replotted instantly when you change your data.
- Graph title, subtitle, axis labels, and footnotes can all be edited.
- Grid lines and legends can be added automatically.
- Lisa automatically sets axis ranges and increments; users may easily customize them at any time.
- Free-floating titles and annotations can be added anywhere on the graph. Select with the mouse, then type.
- Titles can be bold, italic, or underlined, or any combination.
- Graphs can be easily moved into LisaDraw to customize them further.

Some Important LisaGraph Advantages

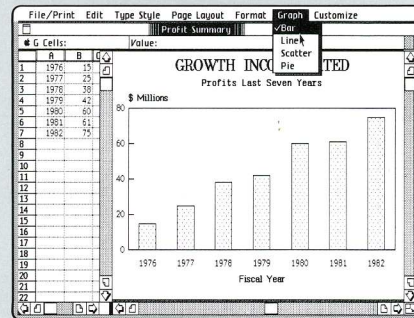
- LisaGraph eliminates the need to learn a graphics language; data entered into the LisaGraph table is plotted automatically.
- There is no "data entry mode"; data is entered directly into the table—just select with the mouse and type.
- Both data and graph are always shown side by side on the screen.
- Information from LisaCalc models can be transferred directly into LisaGraph for immediate plotting as simply as you perform any basic editing. The LisaCalc models can be displayed on the "desktop" right alongside your graph.

Printing Your Results

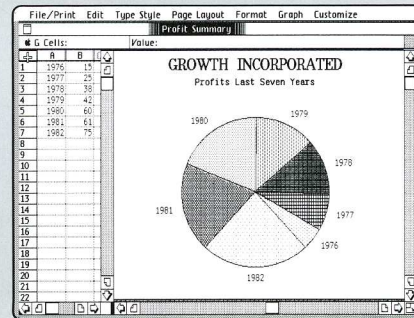
- Graphs can be printed in four different sizes—1/4 page, 1/3 page, 1/2 page, and full page.
- Apple's Dot Matrix and Daisy Wheel Printers both produce unparalleled graphics and text.
- The Apple Dot Matrix Printer produces quality copy for overhead transparencies.
- Large presentation-size timesteps give a professional typeset appearance.

Selecting A Graph

- Bar, line, mixed bar/line, pie, and scatter graphs are available.
- Graph type can be instantly changed without touching the keyboard. Use the mouse to select a new graph type from the menu—and the graph is instantly redrawn.

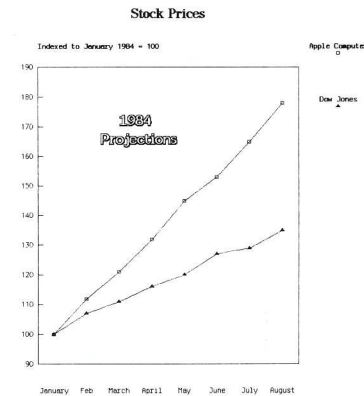


Change graph types by using the mouse to move the pointer along the menu bar. Stop the pointer on GRAPH, then press the mouse button. The GRAPH menu instantly appears.



Select a graph type by moving the pointer down the menu. Use the mouse button to select PIE; LisaGraph does the rest automatically.

Apple Computer, Inc. and The Dow Jones Average



LisaGraph produces high-resolution printouts on either Apple's Dot Matrix or Daisy Wheel Printers. What you see on the LisaGraph screen is what you get on the page.

**Basic learning time:**

- Less than 30 minutes.

Graph types:

- Bar, line, mixed bar/line, clustered bar (up to 8 bars per cluster), scatter, pie.

Maximum data points:

- More than 2,000.

Titles:

- Graph title, subtitle, x axis title, y axis title, footnotes, legends.
- Free-floating titles can be added anywhere on graph.

Data entry:

- Simple table for data entry.
- Column widths in data table are easily adjustable.
- Entered data is graphed instantly.
- Table and graph appear simultaneously.
- Copy data from LisaCalc model to LisaGraph in three quick steps.

Editing:

- Editing is done the same way as in other Lisa applications.
- Editing of data within cells.
- Cut, paste, and copy.
- Edit titles on the graph.
- Insert new row or column in data table.
- Transfer a graph into LisaDraw to customize it further or include it in another drawing.

Formatting:

- Grid lines (on or off).
- Legends (on or off).
- Four graph sizes (1/4, 1/3, 1/2, full page).
- Manual or automatic determination of axis ranges and increments.
- For titles, choose from a variety of typstyles, including large presentation sizes.
- Title can be bold, italic, underlined, shadow, hollow, or any combination.
- Table formatting features include variable width columns; left, right, or center alignments; integer, decimal, scientific, or money formats.

Performance:

- Graph replotted immediately (usually in less than one second) when data is entered or changed.
- Instant feedback on all operations, editing, data and text entry.

Special features:

- UNDO function cancels effects of last operation.
- REVERT TO PREVIOUS VERSION undoes all changes made to the graph since it was last saved.
- More than one document can be viewed on the screen at the same time.
- Enlarge or shrink viewing areas for graph or data-entry table.

Printing:

- "What you see is exactly what you get" fidelity.
- Apple's high-resolution Dot Matrix Printer (160 x 144 dots per inch; 6.2 x 5.6 dots per mm).
- Apple's Daisy Wheel Printer.
- Print graph and/or table of data.
- Print in horizontal or vertical formats.
- Paper can be 8½ x 11 (215 x 279), 8½ x 14 (215 x 355), or 11 x 14 (279 x 355 mm) inches.
- Print single or multiple copies.

Documentation:

- Brief orientation guide to get you started in 30 minutes.
- Complete reference guide.
- Extensive step-by-step tutorial.
- Handy reference card.

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