The New Features of Symbol Dynamics® EXP® 6.0

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New Features in EXP 6.0

- Save EXP documents in PowerPoint® format
  (This presentation was produced entirely using EXP. You must have PowerPoint 2000 or later installed to use this feature.)
- Copy EXP content to the clipboard and paste it into other programs as a scalable graphic
- Copy tabular data from Excel® to the clipboard and paste it into EXP as a table
- Use heading styles to create bookmarks in PDF files
  (You must have Adobe® Acrobat® installed to use this feature.)

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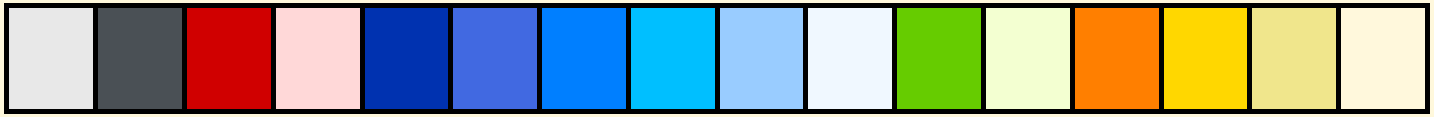
New Features in EXP 6.0

- Enjoy improved compatibility with Windows Vista
- Print documents with line numbers
- Create more colorful documents and presentations using 16 new colors



- Use 81 new symbols

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New Features in EXP 6.0

- Format documents faster and more easily with:
  - new styles in the Normal style sheet
  - the improved right-click menu
- Manage all your EXP files separately from those of other users with the "My EXP Files" folder hierarchy
- Create documents for the A4 paper size easily
  (The New toolbar button selects between the "Normal" and "Normal - A4" document templates automatically.)

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Feature Profile

Saving EXP files in PowerPoint format

- Enables you to create a technical presentation using EXP and then to display the presentation using PowerPoint.
- Each page of the EXP document becomes a slide in the PowerPoint file.
- EXP converts each page to an Enhanced Metafile (EMF) graphic and positions the graphic on the corresponding PowerPoint slide.

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Feature Profile

Saving EXP files in PowerPoint format

- There are no restrictions on what content can be exported to PowerPoint. Any EXP content can be exported to a PowerPoint slide, regardless of how it is formatted.

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Feature Profile

Saving EXP files in PowerPoint format

An example equation:

$$\left(\int_{-\infty}^{\infty} e^{-x^2}\,dx\right)^2 = \int_{-\infty}^{\infty}\int_{-\infty}^{\infty} e^{-(x^2+y^2)}\,dx\,dy$$

$$= \int_{0}^{2\pi}\int_{0}^{\infty} e^{-r^2}\,r\,dr\,d\theta$$

$$= \int_{0}^{2\pi}\left(-\frac{e^{-r^2}}{2}\Bigg|_{r=0}^{r=\infty}\right)d\theta$$

$$= \pi$$

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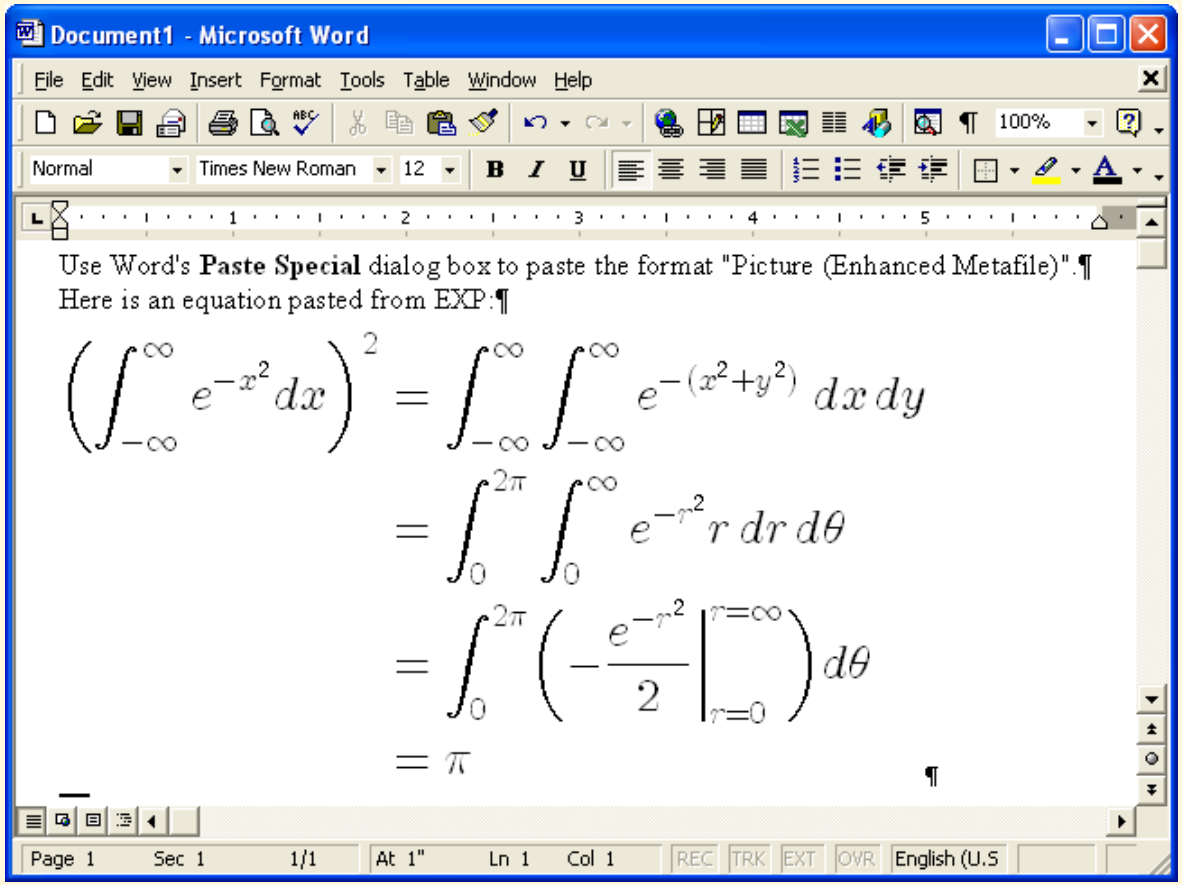
Feature Profile

Pasting EXP content into other programs



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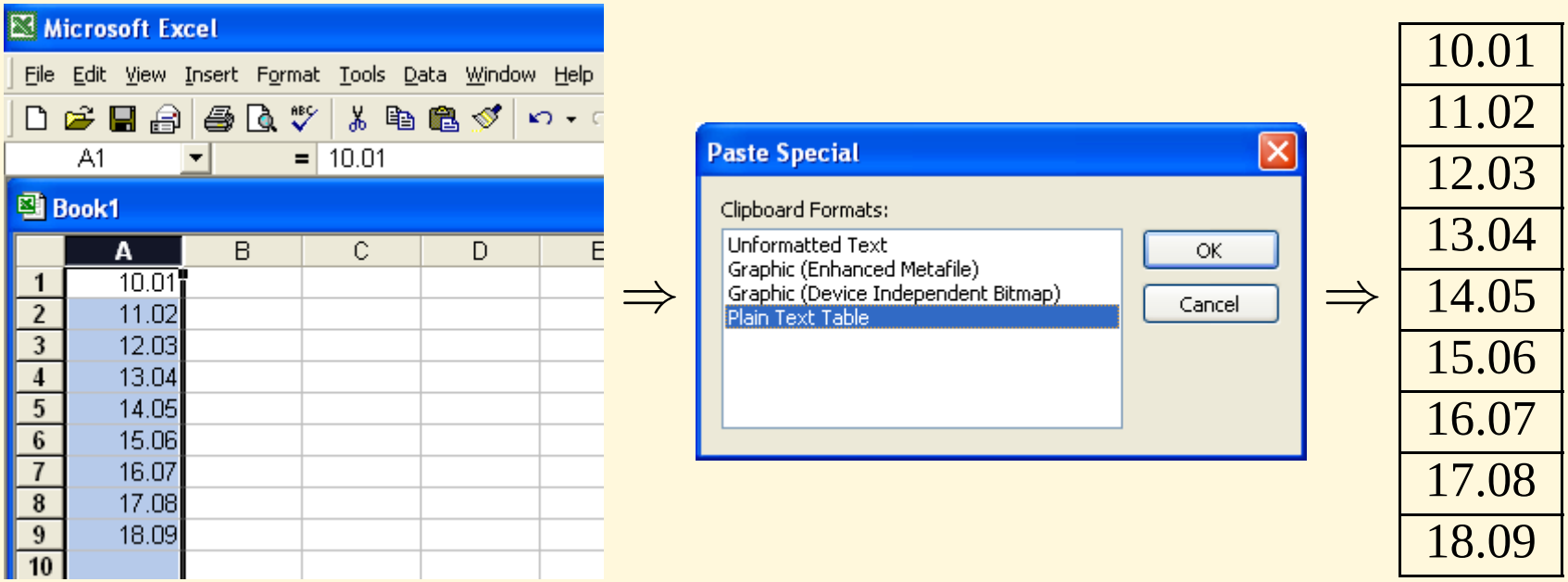
Feature Profile

Pasting tabular data into EXP as a table

The Paste Special dialog box lists the format Plain Text Table if suitable tabular data is available.



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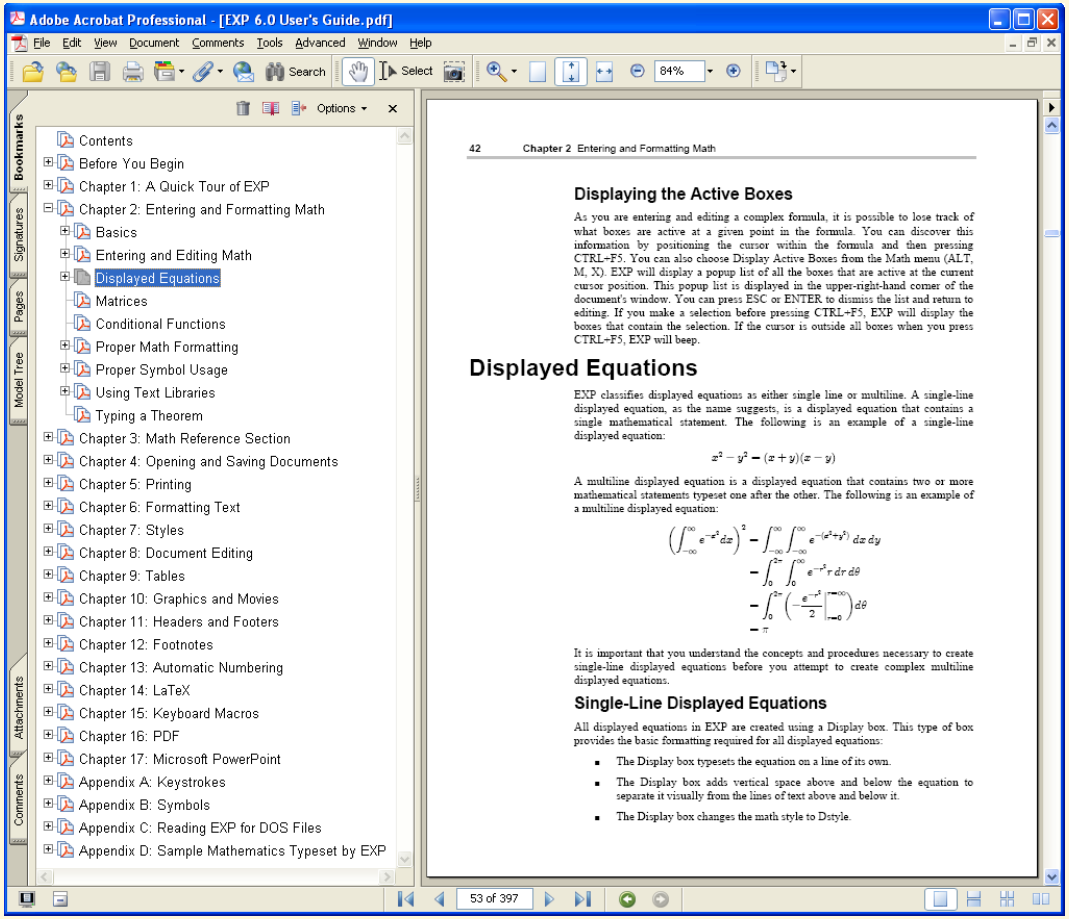
Feature Profile

Creating bookmarks in PDF files



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Feature Profile

Creating bookmarks in PDF files

- EXP creates PDF bookmarks for you automatically when you use the heading styles in the Normal style sheet.
- The Normal style sheet provides heading styles called "Heading 1" through "Heading 8".
- Using these heading styles enables you to use Acrobat's Bookmarks Navigation Tab to jump quickly to any heading in the document.

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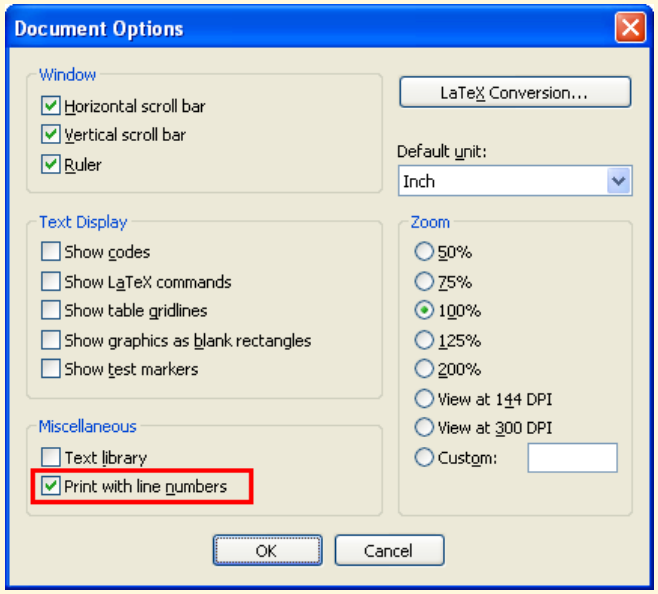
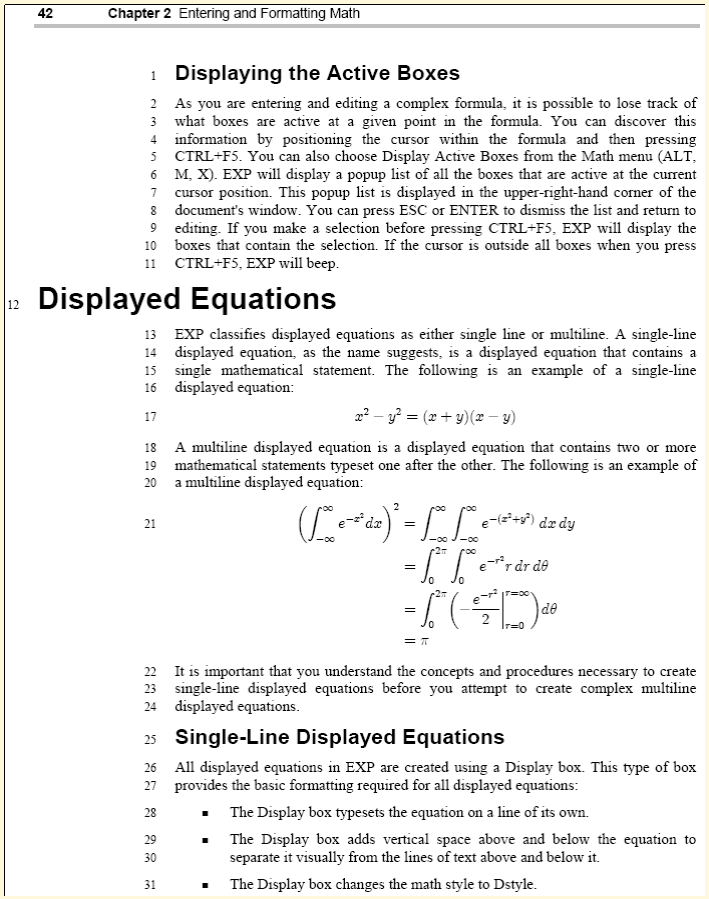
Feature Profile

Print with line numbers





42 Chapter 2 Entering and Formatting Math

Displaying the Active Boxes

As you are entering and editing a complex formula, it is possible to lose track of what boxes are active at a given point in the formula. You can discover this information by positioning the cursor within the formula and then pressing CTRL+F5. You can also choose Display Active Boxes from the Math menu (ALT, M, X). EXP will display a popup list of all the boxes that are active at the current cursor position. This popup list is displayed in the upper-right-hand corner of the document's window. You can press ESC or ENTER to dismiss the list and return to editing. If you make a selection before pressing CTRL+F5, EXP will display the boxes that contain the selection. If the cursor is outside all boxes when you press CTRL+F5, EXP will beep.

Displayed Equations

EXP classifies displayed equations as either single line or multiline. A single-line displayed equation, as the name suggests, is a displayed equation that contains a single mathematical statement. The following is an example of a single-line displayed equation:

$$x^2 - y^2 = (x + y)(x - y)$$

A multiline displayed equation is a displayed equation that contains two or more mathematical statements typeset one after the other. The following is an example of a multiline displayed equation:

$$\begin{aligned}\left(\int_{-\infty}^{\infty} e^{-x^2}\,dx\right)^2 &= \int_{-\infty}^{\infty}\int_{-\infty}^{\infty} e^{-(x^2+y^2)}\,dx\,dy \\ &= \int_0^{2\pi}\int_0^{\infty} e^{-r^2} r\,dr\,d\theta \\ &= \int_0^{2\pi}\left(-\frac{e^{-r^2}}{2}\Big|_{r=0}^{r=\infty}\right)d\theta \\ &= \pi\end{aligned}$$

It is important that you understand the concepts and procedures necessary to create single-line displayed equations before you attempt to create complex multiline displayed equations.

Single-Line Displayed Equations

All displayed equations in EXP are created using a Display box. This type of box provides the basic formatting required for all displayed equations:

- The Display box typesets the equation on a line of its own.
- The Display box adds vertical space above and below the equation to separate it visually from the lines of text above and below it.
- The Display box changes the math style to Dstyle.

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Feature Profile

Use 81 new symbols

Miscellaneous Math

ℶ	beth	◊	lozenge	Ⓢ	circledS
ℷ	gimel	⧫	blacklozenge	∖	backprime
ℸ	daleth	▲	blacktriangle	∅	varnothing
$\hbar$	hslash	▼	blacktriangledown	▽	triangledown
𝕜	Bbbk	⟋	diagup		
∁	complement	⟍	diagdown		

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Binary Operations

∔	dotplus	⋓	Cup	⋋	leftthreetimes
⧵	smallsetminus	⋒	Cap	⋌	rightthreetimes
⊖	circleddash	⋏	curlywedge	⋇	divideontimes
⊛	circledast	⋎	curlyvee	∙	centerdot
⊚	circledcirc	⊼	barwedge	⩒	doublebarwedge
⊺	intercal	⩡	veebar		

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Use 81 new symbols

Relations

⋐	Subset	⫋	subseteqq	≜	triangleq
⋑	Supset	⫌	supseteqq	△	vartriangle
≲	lessapprox	≾	precapprox	◀	blacktriangleleft
≳	gtrapprox	≿	succapprox	▶	blacktriangleright

Negated Relations

≨	lneq	⊄	subsetneq	⋠	precneqq
≩	gneq	⊅	supsetneq	⋡	succneqq
⋦	lneqq	⫋	varsubsetneq	⋨	precnsim
⋧	gneqq	⫌	varsupsetneq	⋩	succnsim
⋦	lnsim	⊊	subsetneqq	⪹	precnapprox
⋧	gnsim	⊋	supsetneqq	⪺	succnapprox
⪉	lnapprox	⫋	varsubsetneqq		
⪊	gnapprox	⫌	varsupsetneqq		

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Arrow Relations

↞	twoheadleftarrow	⇚	Lleftarrow	↿	uharpoonleft
↠	twoheadrightarrow	⇛	Rrightarrow	↾	uharpoonright
↢	leftarrowtail	↰	Lsh	⇃	dharpoonleft
↣	rightarrowtail	↱	Rsh	⇂	dharpoonright
↫	looparrowleft				
↬	looparrowright				

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Other Improvements

- The Save As dialog box automatically changes the filename extension when the "Save as type" control is changed.
- The font size list contains more choices.
- When the default unit is Inch, the ruler snaps to the nearest 1/8" instead of the nearest 1/16".
- The behavior of the ruler when the default unit is not Inch has been improved.

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Other Improvements

- Show codes mode is more readable.
- The layout of controls in dialog boxes has been modified to conform to contemporary standards.
- Asian vertical-layout fonts are no longer listed.
- You can now enter the text characters Ž and ž using the names Zhacek and zhacek.

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