

# Tutorial básico de Maple

## Introducción

Maple es una herramienta que permite combinar texto con expresiones matemáticas y operar sobre expresiones matemáticas.

Podemos encontrar información sobre este programa en la URL <http://www.maplesoft.com>.

En nuestra Universidad, el centro de cálculo ha confeccionado un manual (en castellano) que está disponible en el URL <http://www.uscib.usc.es/Maple/Manual%20V1.1.1.ES/>. A este manual solo se puede acceder convenientemente desde la red de la UCM.

Una primera visita de Maple la podemos obtener con la barra de herramientas superior, ejecutando:

- Ayuda > Ayuda de Maple
- Ayuda > Tour por Maple

En la opción de Herramientas también son útiles para aprender el manejo:

- Herramientas > Asistentes
- Herramientas > Tutoriales

Este tutorial está pensado con dos objetivos:

- 1.- Introducir al alumno en la funcionalidad de Maple, de forma que pueda servir en cualquier momento como repaso antes de abordar un problema.
- 2.- Mostrar algunos herramientas especialmente útiles en el manejo y edición de las Ecuaciones Diferenciales.

## Maple como tratamiento de textos

### Textos

Como tratamiento de textos, Maple tiene las funciones básicas: cambiar tipo de letra, tamaño, negrita, cursiva, subrayado, alineación, numeración, color de la letra, etc.

También permite la numeración automática del texto mediante el menú **F7** o en **Herramientas > Corregir Ortografía**.

Lamentablemente, para los castellanoparlantes, el diccionario que usa Maple es el inglés. Sin embargo, lo que sí permite Maple es utilizar un diccionario de usuario al cual podemos le añadiendo palabras conlleva una aparición de la lista. Este diccionario debe estar en formato txt. Existen muchos formatos (lista de palabras) muy complejos en la red. Una última opción, más fácil, aunque larga, es simplemente añadir las palabras que aparecen en nuestro documento, en relativamente poco tiempo podemos tener un diccionario razonablemente efectivo.

## Expresiones matemáticas

Maple también permite escribir las expresiones matemáticas como  $\left| \frac{dx}{\sqrt{1-\frac{x^2}{2}}} \right| = \left| \frac{t}{\sqrt{1-\frac{t^2}{2}}} \right| dt$

Para escribir estas expresiones matemáticas, en la columna de la izquierda, la pestaña **Expresión**

En la fila superior aparecen los dos prefijos: **Forma** y **Matemática**. Son los dos botones básicos en los que se pueden introducir caracteres en Maple.

Desde aquí vamos introduciendo el texto y las expresiones matemáticas en modo texto.

Si cuando introducimos una expresión matemática, el espacio, pinchamos la pestaña **Matemática**, después de escribirla podemos hacer algunas evaluaciones con ella.

Para evaluarla solo tenemos que utilizar el botón derecho del ratón sobre la expresión. Por ejemplo, si sobre la siguiente expresión:

$$x^2 + 2x - 1 = 0$$

pinchamos con el botón derecho y seleccionamos la pestaña **Evalúa/eval**, automáticamente los valores de  $x$  que verifican la igualdad.

Al realizar esta acción tendremos encontrado la forma en la que Maple asigna un número particular que es en el modo de comando.

### Modo comando y modo texto

Para salir al modo de comandos podemos pinchar el botón **]** de la barra de herramientas superior. Junto a este botón hay otro con una **T** que permite pasar a modo texto.

### Imprimiendo

Para ver cómo va a quedar un documento conviene ejecutar: **Archivo > Vista preliminar**.

Para imprimir: **Archivo > Imprimir**.

Prácticamente el resto de este tutorial está dedicado al modo línea de comando.

## Línea de comando

Los comandos en Maple se escriben en una **línea de comando**. A continuación se pone un ejemplo que se llama **demo1.txt** y el punto al final de la línea se ejecuta. Se pueden poner varias operaciones en una misma línea, separadas por punto y coma y al ejecutarse aparecerán en una columna:

# Maple 1guide Tutorial Manual

**Jiyuan Zhang**



## **Maple 1guide Tutorial Manual:**

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### **Table of Contents Maple 1guide Tutorial Manual**

1. Understanding the eBook Maple 1guide Tutorial Manual
  - The Rise of Digital Reading Maple 1guide Tutorial Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Maple 1guide Tutorial Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maple 1guide Tutorial Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maple 1guide Tutorial Manual

- Personalized Recommendations
  - Maple 1guide Tutorial Manual User Reviews and Ratings
  - Maple 1guide Tutorial Manual and Bestseller Lists
5. Accessing Maple 1guide Tutorial Manual Free and Paid eBooks
    - Maple 1guide Tutorial Manual Public Domain eBooks
    - Maple 1guide Tutorial Manual eBook Subscription Services
    - Maple 1guide Tutorial Manual Budget-Friendly Options
  6. Navigating Maple 1guide Tutorial Manual eBook Formats
    - ePub, PDF, MOBI, and More
    - Maple 1guide Tutorial Manual Compatibility with Devices
    - Maple 1guide Tutorial Manual Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Maple 1guide Tutorial Manual
    - Highlighting and Note-Taking Maple 1guide Tutorial Manual
    - Interactive Elements Maple 1guide Tutorial Manual
  8. Staying Engaged with Maple 1guide Tutorial Manual
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Maple 1guide Tutorial Manual
  9. Balancing eBooks and Physical Books Maple 1guide Tutorial Manual
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Maple 1guide Tutorial Manual
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Maple 1guide Tutorial Manual
    - Setting Reading Goals Maple 1guide Tutorial Manual
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Maple 1guide Tutorial Manual

- 
- Fact-Checking eBook Content of Maple 1guide Tutorial Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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