

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.pdf>. 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 blancos 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.mw** 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

ML Morrison



Maple 1guide Tutorial Manual:

Unveiling the Magic of Words: A Overview of "**Maple 1guide Tutorial Manual**"

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