

Convert! for the Newton Messagepad v 2.0

Just as Newton is a replacement for your diary, Convert! is a replacement for the conversion tables usually found at the front. The interactive nature of Newton's built-in metric converter initially struck me as being very useful. I was however frustrated by its limited scope and use of US measures, hence Convert! was born.

Convert! is FREE to give away, that means that you may make use of the software and distribute it to any other user along with this documentation. Any comments are welcome, please send them to the address below.

Convert! can be transferred to Newton via Apple's Connection Kit or the Newton Package Downloader (which is available free from most good on-line services).

General Features

Convert! allows the user to enter and quickly convert between 107 common (and not so common) metric and imperial units. Once the value has been written into a field Convert! automatically calculates the corresponding units in the table. You can then simply overwrite any field with a new value and have the whole table recalculate. The following conversions are supported in version 2.0:

Area

sq. millimetres, sq. centimetres, sq. metres, ares, hectares, sq kilometres, sq inches, sq. feet, sq yards, acres, sq miles.

Length

millimetres, centimetres, metres, kilometres, inches, feet, yards, chains, fathoms, furlongs, cables, statute miles, nautical miles.

Volume

cubic centimetres, litres, cubic metre, cubic feet, cubic yards, US and UK fluid ounces, US and UK pints, US and UK quarts, US and UK gallons, teaspoons, tablespoons, cups.

Mass

milligrams, grams, kilograms, tonnes, ounces, pounds, stones, hundredweight (cwt), slugs, short tons, long tons.

Pressure

atmospheres, pascals, Newtons/sq metre, Kilopascals, bar, dynes/sq metre, mm Hg, torr, inches water, pounds/ sq inch.

Temperature

degrees centigrade, degrees fahrenheit, Kelvin, degrees rankine

Energy

eVolts, ergs, joules, kilojoules, foot pounds, calories, kilocalories, kilowatt

hours, british thermal units (BTU)

Time

nanoseconds, microseconds, milliseconds, seconds, minutes, hours, days, weeks, years

Power

watts, kilowatts, foot pounds/second, horsepower.

Velocity

millimetres per second, centimetres per second, metres per second, kilometres per hour, inches per second, feet per second, miles per hour.

Computing

bits, bytes, characters, kilobytes, megabytes, gigabytes, terabytes, bits per second, seconds, inches, points, picas, ems.

Additional Features

Computing: In addition to the regular table calculations, the user can specify a data transfer constant (either in bits per second or seconds) via a radio button and have Convert! calculate the "missing variable". e.g. to calculate how long it would take to transfer 2Mb at 2400bps: select the "bps" radio button and write in 2400 and 2 in the respective bps and megabyte fields. The answer will appear in the sec field.

Unit measure conversions: The length, mass, time and computing tables also have a button respectively labelled "yd:ft:in", "tn:lbs:ozs" and "h:m:s". This allows the user to additionally convert the feet, pounds and seconds fields from a fraction to whole units. e.g.: 6320 seconds = 1 hours, 45 minutes, 20 seconds. This field is also draggable.

Change History

Convert 1.0 : initial release.

Convert 1.01: maintenance release

Convert 2.0 beta : beta release (not for general distribution)

Convert 2.0 : general release. Complete rewrite of Convert, better use of memory, user prefs, 62 more conversions... you get the idea.

Legal Bits

Convert! may be freely distributed via on-line services, BBSs and user groups provided it is not altered in ANY way. Commercial, Shareware and CD-ROM services must obtain advance permission in writing from the author before distributing this product. This version of Convert! for Newton is free of charge. However, it is NOT public domain. All copyright, ownership and rights of ownership shall remain with the author.

All attempts have been made to ensure the accuracy of the numbers generated by this program. In no event shall the author be responsible for any consequential, incidental or indirect damages (including loss of business profits, business interruption, loss of business information and the like) incurred through the use of this software.

Finally...

I hope you find Convert! useful. Please don't hesitate to contact me with comments, suggestions and bug reports. If you have an uncontrollable urge to shower me with gifts I will humbly accept those as well. I wish to express my gratitude to the following people for helping me beta test Convert! 2.0

Ben Gottlieb, Brice Dowaliby, Tim Buck, Harland Macia, Steve Dobbs (no not Jobs ;-))

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Internet Email: clinton@cosc.canterbury.ac.nz

Other Insight Products for newton include...

Currency: A exchange rate calculator.

CED Finance Calc: A finance calculator for the Apple finance scheme.

ColourCalc : Kodak printer balancing software.

Locator: Newton location editor.

Photoshop for newton: just kidding ;-)