

# Inventio Software

Specialist Instrumentation Design and Programming

## What's new to see in colorForth : cf2023

Today I am launching colorForth cf2023 “roomed-zebra” – there are only a few changes compared to cf2022, but there are significant bug fixes. The list below includes some changes for cf2022 :

- Pressing the keyboard Enter key still executes the red token behind the cursor, but also locates - displays the source block - of a green token (but not kernel tokens).
- Bug fix : Magenta Variable used to allocate its parameter field in the token name wordlist. Now there is a locate list in parallel with the token names and code address lists, and this is used to store the address of the Magenta Variable in its source block. It is interesting how “locate” and “magenta variables” are connected.
- Bug fix : the optimizing versions of “@” and “!” did not always compile code that worked. This is probably to do with the change from 32 bit cell to byte addressing. To avoid problems I have renamed them “@@” and “!!”.
- Bug fix : kernel versions of 2swap and 2dup had a typo that broke them both. After fixing them the “gr” graphics demo works again 😊
- Support for encoding and display of ASCII characters (see block 510)
- The font is now in ASCII order, even though Shannon-Fano encoded names are still used internally.
- Byte addresses are used throughout, all magic numbers have been replaced by equ's
- The new Word **chm** (**check MD5**) shows the MD5 hash for blocks 64 to 127, the system blocks. This checks that the colorForth system has been copied onto the USB stick correctly. The current system shows a magenta “ff” and a white “la:rrr”.

You can download colorForth cf2023, together with Bochs for running it under Windows here:  
[https://www.inventio.co.uk/cf2023\\_2023Apr04\\_roomed-zebra.7z](https://www.inventio.co.uk/cf2023_2023Apr04_roomed-zebra.7z)

More colorForth options here: <https://www.inventio.co.uk/colorforth/>

Enjoy!

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*Note : “roomed-zebra” is the NumName – two English words created from a 32768 word list, based on 30 bits of the MD5 Hash of the cf2023Ref.img file. See <https://www.inventio.co.uk/Cweedexe.htm> for details.*