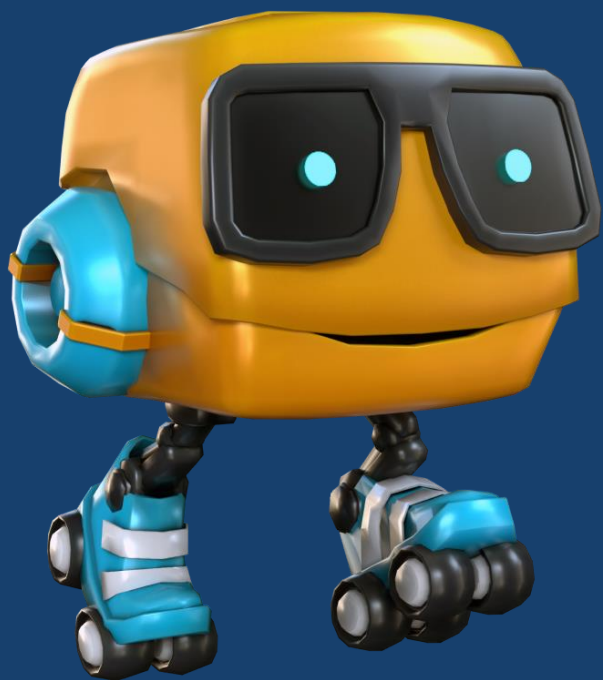
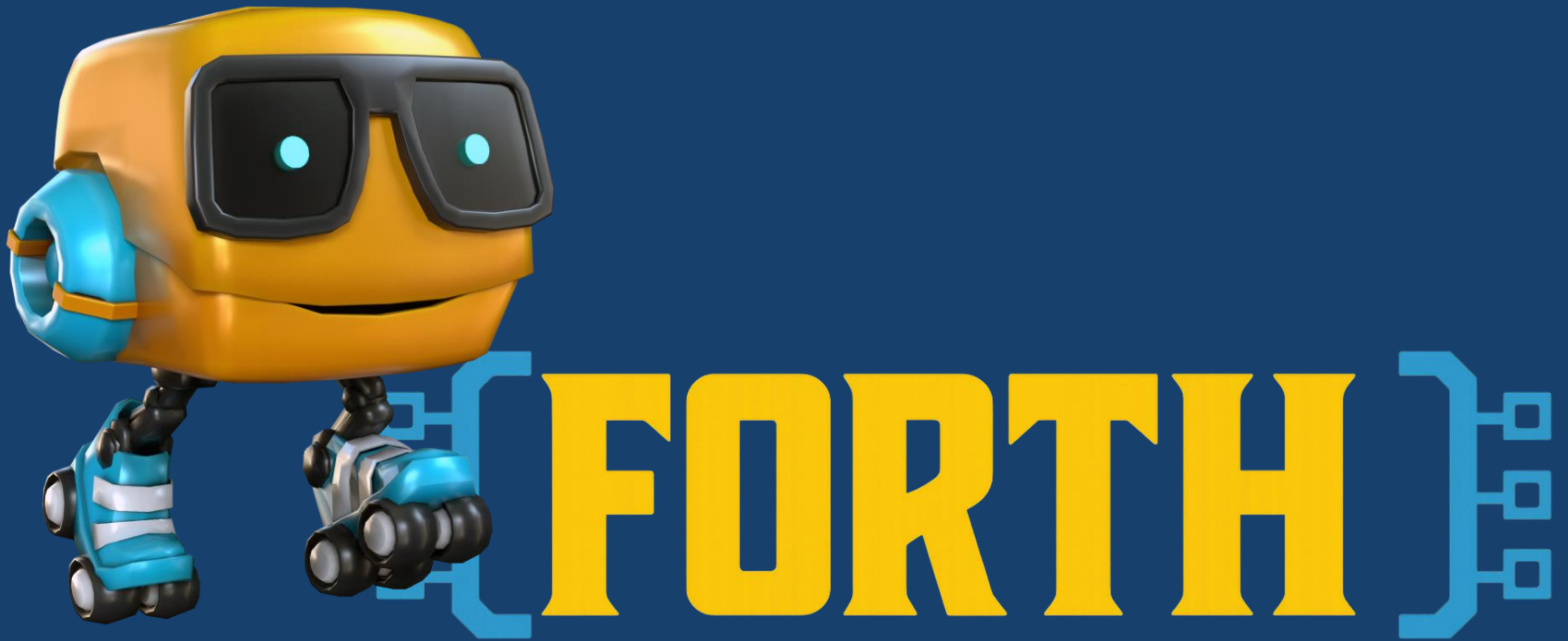


[CHIPWITS]



Terug naar de jaren '80: De Reconstructie van ChipWits in FORTH



Uw Gids Door de Tijd: Jan Rochat's Reconstructie Project



MacFORTH Code for 1984 Robot-Coding Game 'ChipWits' from 1984 is Now Open Source (chipwits.com)



10

Posted by EditorDavid on Sunday November 24, 2024 @01:34PM from the sharing-the-software

Back in the mid-1980s Mark Roth was in 5th grade when the game [ChipWits](#) "helped kindle his interest in coding," according to [an online biography](#). ("By middle school, he wrote his first Commodore 64 assembler and by high school he authored a 3D Graphics library for DOS.")

And 40 years later, Slashdot reader [markroth8](#) writes that the programming puzzle/logic game "inspired many people to become professional coders":

ChipWits was first released for Mac in 1984, and was later [ported to Commodore 64 and Apple II](#) in 1985. To celebrate the game's **40th anniversary**, the team behind the new [Steam reboot of ChipWits](#) (including its original co-creator Doug Sharp, also of fame for the game King of Chicago) is announcing the recovery and [open source release](#) of the original game's source code, written in the FORTH programming language, for both Mac and Commodore 64 platforms.

Recovering data from 40-year old 5.25" and 3.5" disks was a challenge in and of itself, and most of the data survived unscathed! It's interesting to read the 40-year-old code, and [compare it to modern game development](#).

"Our goal for open sourcing the original version of ChipWits is to ensure its legacy lives on," [according to the announcement](#). (It adds that "We also wanted to share an appreciation for what cross-platform software development for 8-bit microcomputers was like in 1984.")

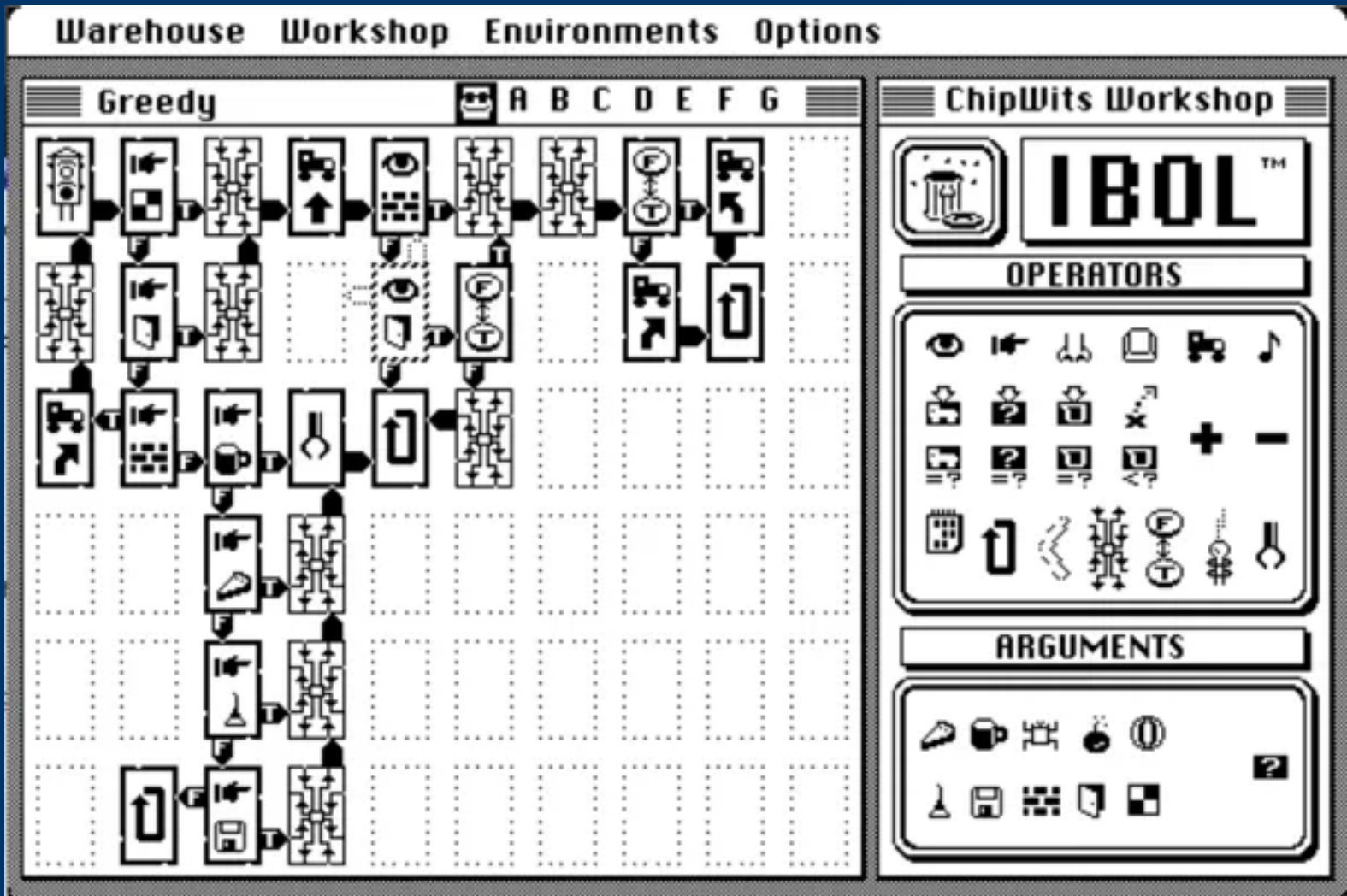
Waarom het Verleden Opgraven?



Terug naar 198(4) : ChipWits



Terug naar 198(4) : De Magie van IBOL



FORTH hoezo : Drie Platformen



Mac



Commodore 64



Apple II

FORTH hoezo : Apple Lisa



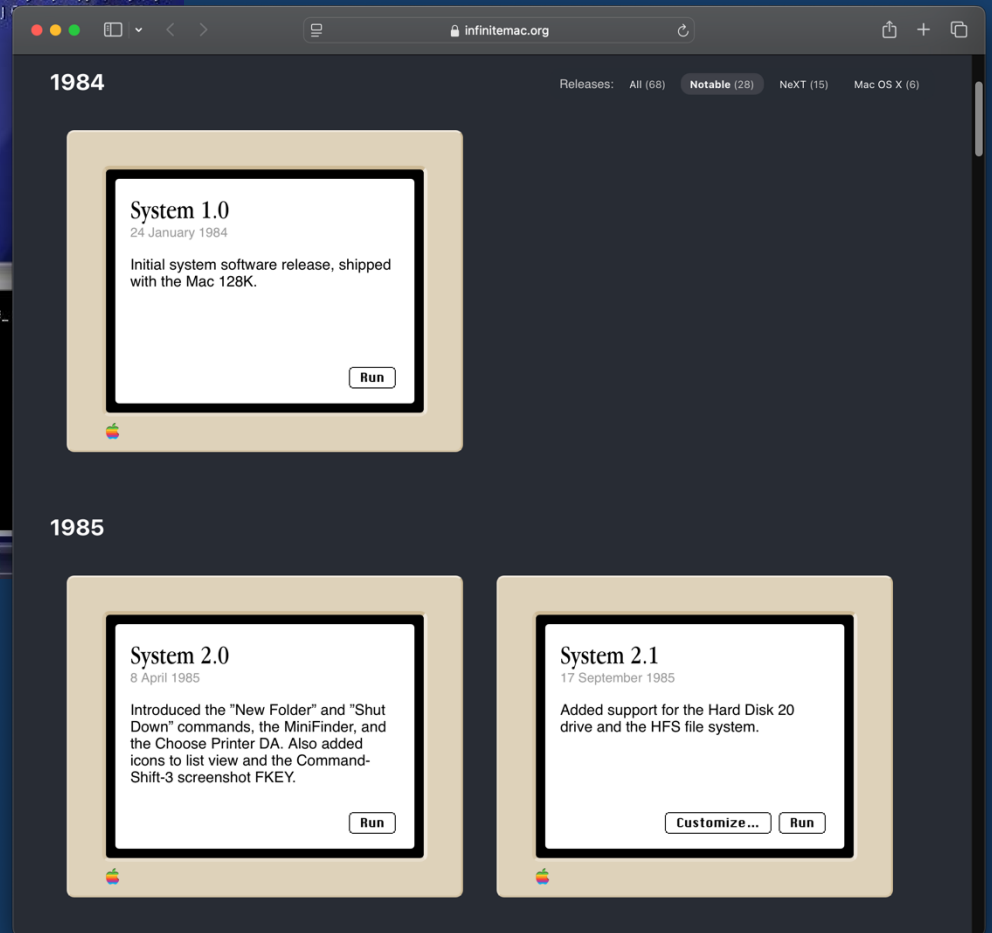
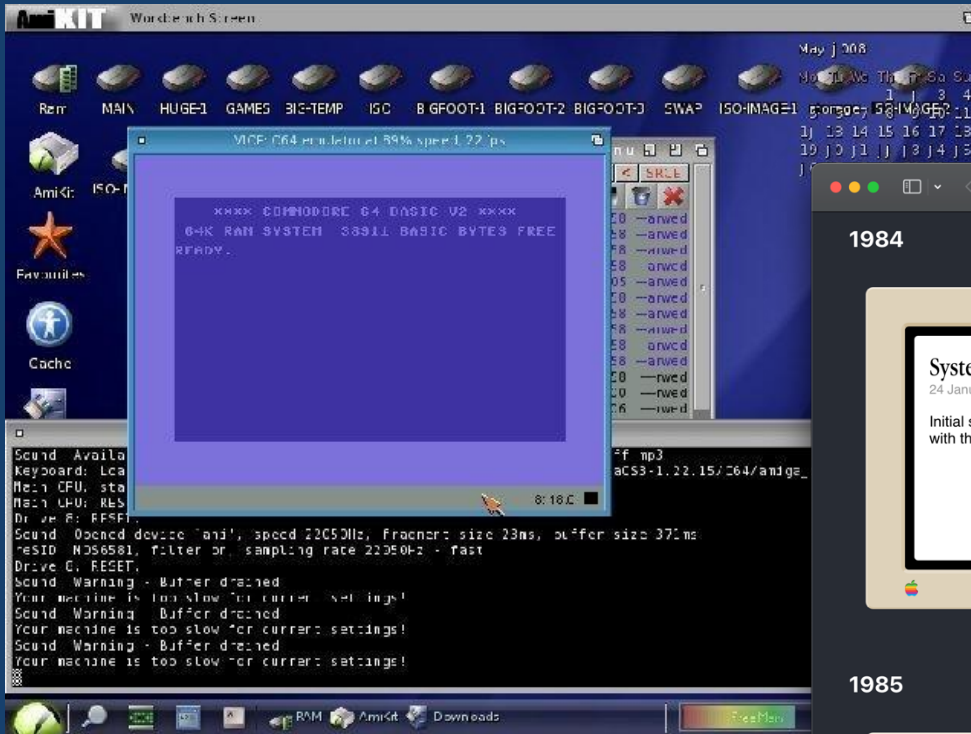
FORTH hoezo : Need for speed



Lets Go : of toch nog niet



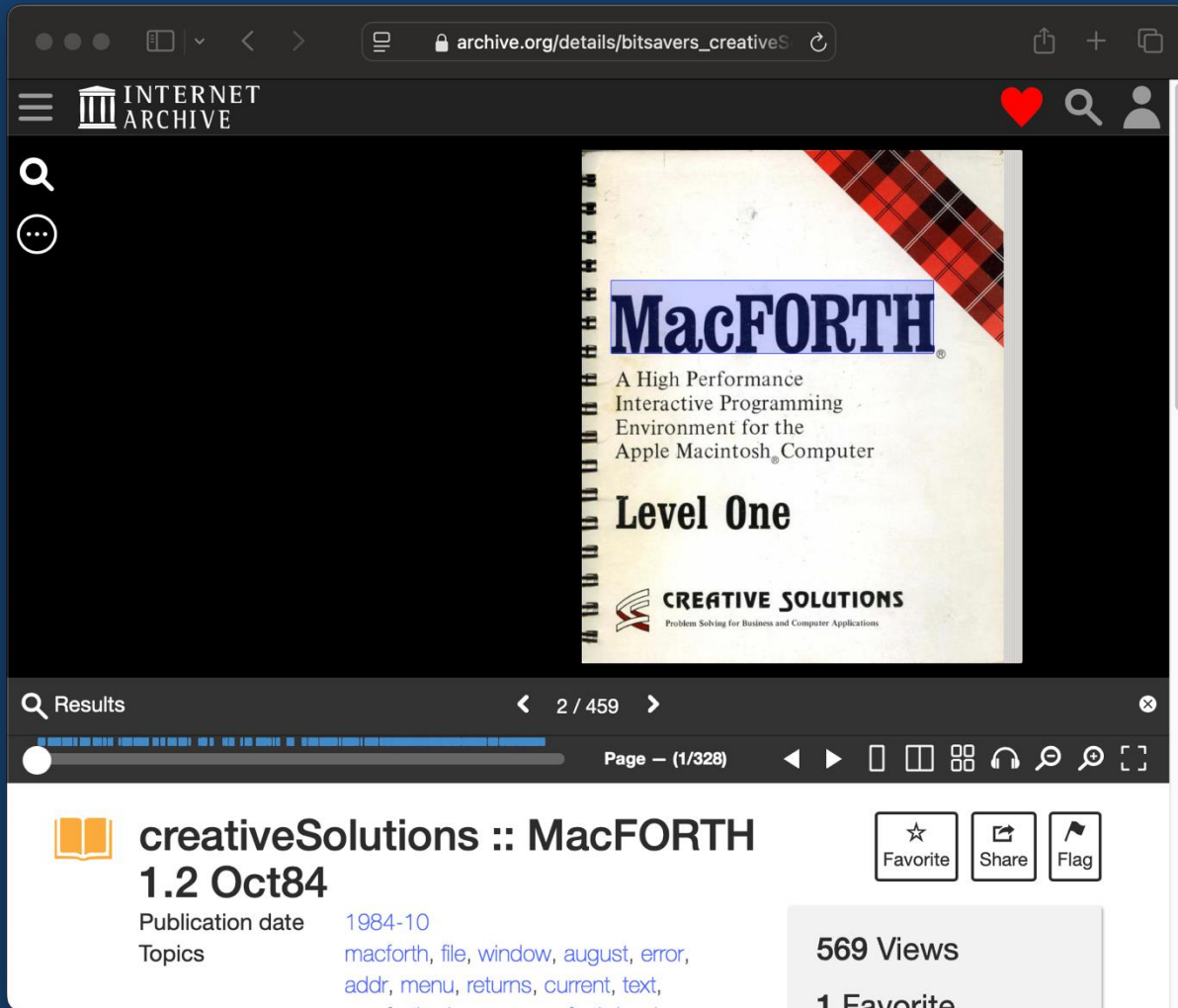
Emulating the 80th



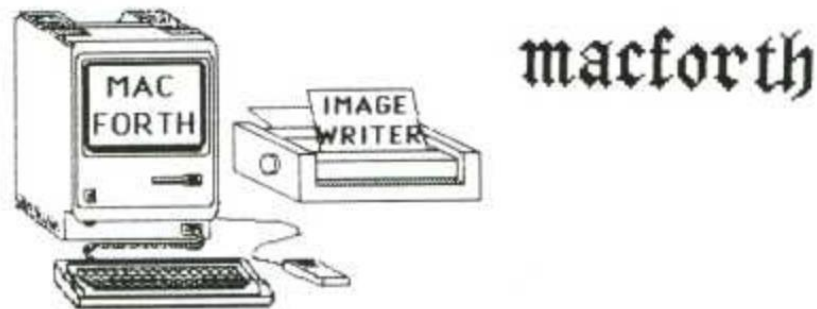
Lets Go : nog even niet



Studeren: Naar de zolder



Studeren: Naar de zolder



Welke mogelijkheden biedt de MAC?

Allereerst zal ik met u een aantal specifieke MAC-mogelijkheden bespreken. Het computersysteem waarover ik beschik bestaat uit een:

- computer met als processor de 32-bit-registers Motorola 68000 met 128 k ram geheugen
- toetsenbord, zonder allerlei extra toeters en bellen
- muis, een zeer snel verplaatsbare beeldwijzer
- extra disk-drive voor Sony 3.5 inch schijfjes voor 400k geheugenopslag
- imagewriter, een matrix-printer die een bijna fotografische afbeeldingen van het beeldscherm maakt.

In het begin is het even wennen om met de MAC te werken maar de gebruiksvriendelijkheid is volgens mij door nog geen andere computer geëvenaard.

Studeren: MVP-FORTH

\$E000	C64 Kernel ROM (8k high RAM)	57344
\$D000	C64 MEMORY MAPPED I/O AREA (4k high RAM)	53248
\$CF80	FORTH USER VARIABLES	53120
\$AF60	DISK BUFFER AREA (initially 8 buffers)	44896
	FORTH DICTIONARY FREE SPACE	
\$63A4		25508
	FORTH DICTIONARY SUPER FORTH 64 HIGH LEVEL EXTENSION DEFINITIONS (source code provided)	
\$3394		13204
	FORTH DICTIONARY SUPER FORTH 64 EXTENSION DEFINITIONS (reclaimable)	
\$2CD7		11479 <--Minimum system
	FORTH DICTIONARY MVP KERNEL DEFINITIONS	
\$0810		2064
\$0200	SCREEN & C64 Kernel DATA	512
\$0100	RETURN STACK & TERMINAL INPUT BUFFER	256
\$0000	ZERO PAGE AREA	

Studeren: MVP-FORTH

THE FORTH SOURCE™

MVP-FORTH

Stable – Transportable – Public Domain – Tools

You need two primary features in a software development package . . . a stable operating system and the ability to move programs easily and quickly to a variety of computers. MVP-FORTH gives you both these features and many extras. This public domain product includes an editor, FORTH assembler, tools, utilities and the vocabulary for the best selling book "Starting FORTH". The Programmer's Kit provides a complete FORTH for a number of computers. Other MVP-FORTH products will simplify the development of your applications.

MVP Books – A Series

- ☐ **Volume 1**, *All about FORTH* by Haydon. MVP-FORTH glossary with cross references to fig-FORTH, *Starting FORTH* and FORTH-79 Standard. 2nd Ed. \$25
- ☐ **Volume 2**, *MVP-FORTH Assembly Source Code*. Includes CP/M®, IBM-PC®, and APPLE® listing for kernel \$20
- ☐ **Volume 3**, *Floating Point Glossary* by Springer \$10
- ☐ **Volume 4**, *Expert System* with source code by Park \$25
- ☐ **Volume 5**, *File Management System* with interrupt security by Moreton \$25

MVP-FORTH Software – A Transportable FORTH

- ☐ **MVP-FORTH Programmer's Kit** including disk, documentation, Volumes 1 & 2 of MVP-FORTH Series (*All About FORTH*, 2nd Ed. & *Assembly Source Code*), and *Starting*

FORTH DISKS

FORTH with editor, assembler, and manual.

- | | |
|--|--|
| NEW ☐ APPLE by MM, 83 \$100 | ☐ Z80 by LM, 83 NEW \$100 |
| ☐ APPLE by Kuntze \$90 | ☐ 8086/88 by LM, 83 NEW \$100 |
| ☐ ATARI® valFORTH \$60 | ☐ 68000 by LM, 83 NEW \$250 |
| NEW ☐ CP/M® by MM, 83 \$100 | ☐ VIC FORTH by HES, VIC20 cartridge \$50 |
| ☐ HP-85 by Lange \$90 | ☐ C64 by HES Commodore 64 cartridge \$60 |
| ☐ HP-75 by Cassidy \$150 | ☐ Timex by HW \$25 |
| NEW ☐ IBM-PC® by LM, 83 \$100 | |
| ☐ NOVA by CCI 8" DS/DD \$175 | |

Enhanced FORTH with: F-Floating Point, G-Graphics, T-Tutorial, S-Stand Alone, M-Math Chip Support, MT-Multi-Tasking, X-Other Extras, 79-FORTH-79, 83-FORTH-83.

- | | |
|---|---|
| NEW ☐ APPLE by MM, F, G, & 83 \$180 | ☐ C64 by ParSec. MVP, F, 79, G & X \$96 |
| ☐ ATARI by PNS, F, G, & X. \$90 | ☐ FDOS for Atari FORTH's \$40 |
| NEW ☐ CP/M by MM, F & 83 \$140 | ☐ Extensions for LM Specify IBM, Z80, or 8086 |
| ☐ Apple, GraFORTH by I \$75 | ☐ Software Floating Point \$100 |
| ☐ Multi-Tasking FORTH by SL, CP/M, X & 79 \$395 | ☐ 8087 Support (IBM-PC or 8086) \$100 |
| ☐ TRS-80/II or III by MMS F, X, & 79 \$130 | ☐ 9511 Support (Z80 or 8086) \$100 |
| ☐ Timex by ED, tape G, X | ☐ Color Graphics |

Studereren: MVP-FORTH

Levels of Forth

Glen B. Haydon

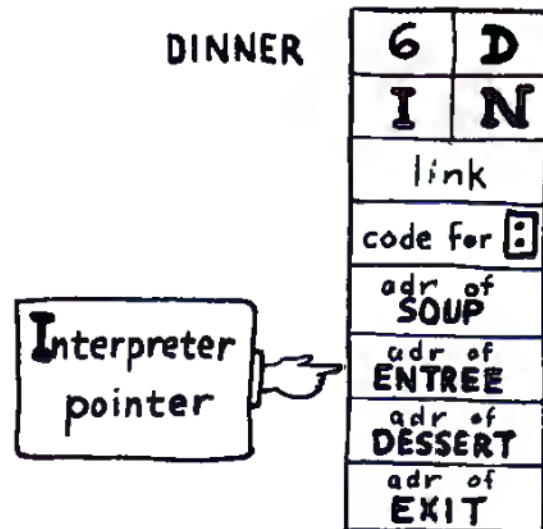
- Level 0** About 45 basic Forth functions
Omitted storage words, display words
- Level 1** fig-Forth Installation Manual
Full set of Forth functions
Limited documentation
- Level 2** Forth-79 Standard Leo Brodie: *Starting Forth*
Mountain View Press slight modifications
Added features
Included ads and editor

Studerer: MVP-FORTH

```
: DINNER    SOUP ENTREE DESSERT ;
```

and that tonight's ENTREE consists simply of

```
: ENTREE    CHICKEN RICE ;
```



We are executing **DINNER** and we have just finished the **SOUP**. The pointer that is used by the address interpreter is called the "interpreter pointer" (**[I]**). Since the next course after **SOUP** is the **ENTREE**, our interpreter pointer is pointing to the cell that contains the address of **ENTREE**.

Studeren: MVP-FORTH

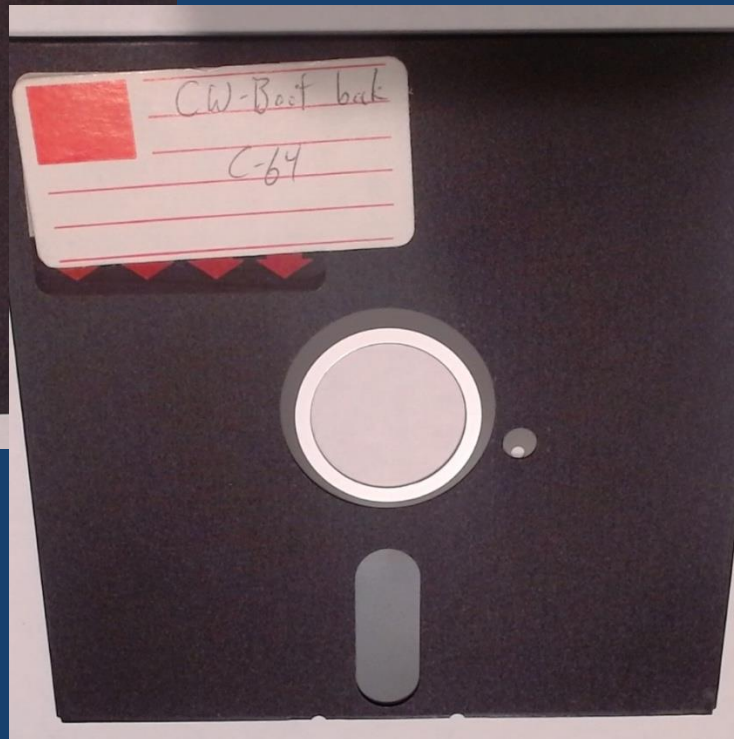
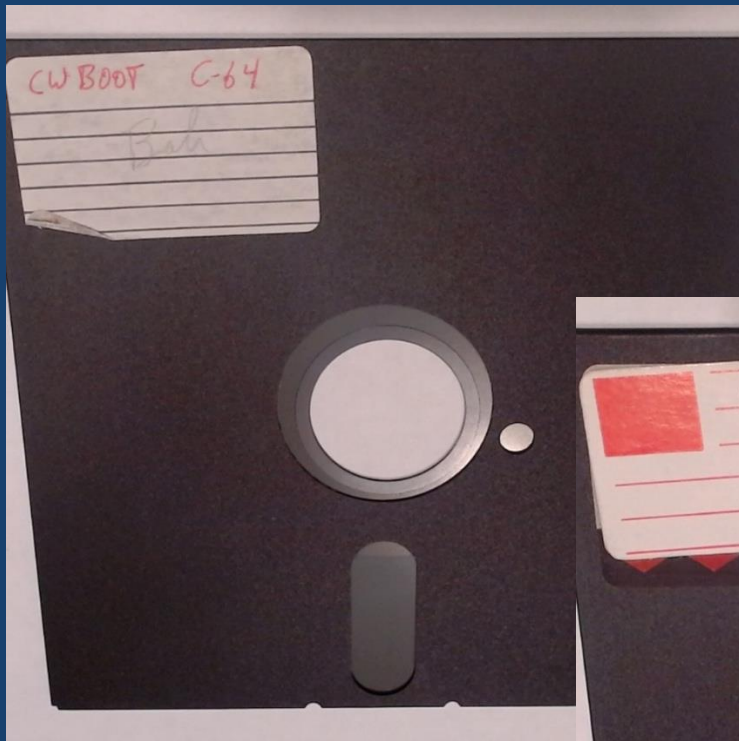
fig-FORTH for 6502, Rel 1.1 PAGE 0003

LINE #	LOC	CODE	LINE	
0065	0000		;	
0066	0000		;	Boot up parameters. This area provide jump vectors
0067	0000		;	to bootup code, and parameters describing the system.
0068	0000		;	
0069	0000			*=ORIG
0070	0200	EA	ENTER NOP	User cold entry point
0071	0201	4C 47 12	JMP COLD+2	vector to COLD entry
0072	0204	EA	REENTR NOP	; User warm entry point
0073	0205	4C 57 12	JMP WARM	vector to WARM entry
0074	0208	04 00	.WORD \$0004	6502 encoded in radix-36
0075	020A	D2 5E	.WORD \$5ED2	
0076	020C	64 1A	.WORD NTOP	Name address of MON
0077	020E	7F 00	.WORD \$7F	Backspace character
0078	0210	80 3F	.WORD UAREA	Initial user area
0079	0212	9E 00	.WORD TOS	Initial top of stack
0080	0214	FF 01	.WORD \$1FF	Initial top of return stack
0081	0216	00 01	.WORD TIBX	Initial terminal input buffer

Lets Go : bijna



Lets Go : bijna



game

```

32ff: A9 32 85 05 A5 7C 85 81 A5 7D 85 82 A6 7E A0 00 .2...|...}...~.
330f: 4C 80 00 6C 7A 00 86 49 2D 49 4E 49 D4 9D 32 20 L..1z..I-INI..2
331f: 33 84 7C 84 7D 78 AD 14 03 85 7A AD 15 03 85 7B 3.|.}x....z....
332f: A9 E9 8D 14 03 A9 32 8D 15 03 58 4C 90 08 86 49 .....2...XL...
333f: 2D 55 53 45 D2 15 33 48 33 84 7F 4C 90 08 88 49 -USE..3H3..L...
334f: 2D 53 59 53 54 45 CD 3D 33 5A 33 C8 4C 48 33 85 -SYSTE.=3Z3.LH3
335f: 49 2D 85 49 2D 53 45 D4 4D 33 B0 0D 9A 2E 60 0D I-.I-SE.M3....`
336f: 52 0D 0F 22 7E 00 76 17 B0 17 0F 22 7C 00 32 09 R.."~.v...."|.2
337f: 58 33 B3 2E C3 1E 87 49 2D 43 4C 45 41 D2 61 33 X3....I-CLEA.a
338f: B0 0D 49 0D C6 0C 69 33 C3 1E 84 54 48 52 D5 85 ..I...i3...THR.
339f: 33 B0 0D 30 0D 56 29 26 10 AC 20 70 2A AC 20 48 3..0.V)&...p*.
33af: 22 94 15 08 0D 04 00 75 21 01 12 EE FF C3 1E 82 ". ....u!.....
33bf: 53 D9 99 33 B0 0D 4B 2D 09 1C 09 1C C3 1E 86 53 S..3..K-.....
33cf: 45 54 4C 46 D3 BE 33 B0 0D 0F 22 BA FF C3 33 C3 ETLF..3..."...3
33df: 1E 86 53 45 54 4E 41 CD CD 33 B0 0D 27 1A 56 29 ..SETNA..3...'V
33ef: 00 2D 0F 22 BD FF C3 33 C3 1E 84 4F 50 45 CE E0 .-..."...3...OPE.
33ff: 33 B0 0D E9 33 D6 33 0F 22 C0 FF 4D 20 C3 1E 85 3...3.3..."..M ..
340f: 43 4C 4F 53 C5 F9 33 B0 0D C6 0C C6 0C 0F 22 C3 CLOS..3....."
341f: FF C3 33 C3 1E 86 43 4C 52 43 48 CE 0E 34 B0 0D ..3...CLRCH..4.
342f: 0F 22 CC FF 4D 20 C3 1E 82 4C D2 24 34 B0 0D E9 ."..M ...L.$4..
343f: 33 3E 14 0F 22 FF 00 4B 29 A2 15 61 25 E1 0C D6 3>..."..K)..a%..

```

Studeren: FIG-FORTH

fig-FORTH for 6502, Rel 1.1 PAGE 0003

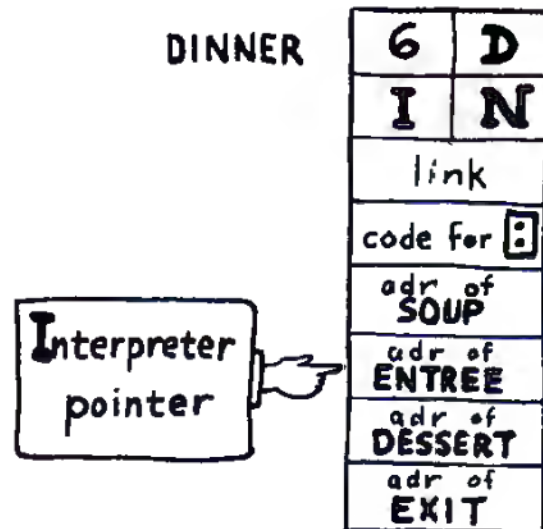
LINE #	LOC	CODE	LINE	
0065	0000		;	
0066	0000		;	Boot up parameters. This area provide jump vectors
0067	0000		;	to bootup code, and parameters describing the system.
0068	0000		;	
0069	0000			*=ORIG
0070	0200	EA	ENTER NOP	User cold entry point
0071	0201	4C 47 12	JMP COLD+2	vector to COLD entry
0072	0204	EA	REENTR NOP	; User warm entry point
0073	0205	4C 57 12	JMP WARM	vector to WARM entry
0074	0208	04 00	.WORD \$0004	6502 encoded in radix-36
0075	020A	D2 5E	.WORD \$5ED2	
0076	020C	64 1A	.WORD NTOP	Name address of MON
0077	020E	7F 00	.WORD \$7F	Backspace character
0078	0210	80 3F	.WORD UAREA	Initial user area
0079	0212	9E 00	.WORD TOS	Initial top of stack
0080	0214	FF 01	.WORD \$1FF	Initial top of return stack
0081	0216	00 01	.WORD TIBX	Initial terminal input buffer

Studerer: MVP-FORTH

```
: DINNER    SOUP ENTREE DESSERT ;
```

and that tonight's ENTREE consists simply of

```
: ENTREE    CHICKEN RICE ;
```



We are executing `DINNER` and we have just finished the `SOUP`. The pointer that is used by the address interpreter is called the "interpreter pointer" (`I`). Since the next course after `SOUP` is the `ENTREE`, our interpreter pointer is pointing to the cell that contains the address of `ENTREE`.

game

```

50cf: 00 FF FF 00 00 FF FF 00 00 FF FF 00 00 FF FF 00 .....
50df: 00 FF FF 00 93 43 55 52 52 45 4E 54 2E 49 4E 53 ....CURRENT.IN
50ef: 54 52 55 43 54 49 4F CE B1 4D 05 1B 00 FF 8D 43 TRUCTIO..M....
50ff: 55 52 52 45 4E 54 2E 50 41 4E 45 CC E3 50 05 1B URRENT.PANE..P.
510f: FF 00 81 CB FD 50 05 1B FF 00 88 46 55 45 4C 2E ...P....FUEL
511f: 52 45 C7 11 51 05 1B 29 FF 89 52 41 4E 47 45 2E RE..Q..)..RANGE
512f: 52 45 C7 19 51 05 1B FF FF 8A 44 41 4D 41 47 45 RE..Q....DAMAG
513f: 2E 52 45 C7 28 51 05 1B FF 00 83 43 42 AB 38 51 ..RE.(Q....CB.8
514f: 05 1B 29 FF 8A 47 4F 2E 4D 41 52 4B 45 52 C0 49 ..)..GO.MARKER.
515f: 51 BB 19 00 00 88 47 4F 54 4F 2E 47 4F C0 53 51 Q....GOTO.GO.S
516f: BB 19 01 00 89 53 55 42 50 41 4E 45 4C C0 64 51 ....SUBPANEL.d
517f: BB 19 02 00 8A 42 4F 4F 4D 45 52 41 4E 47 C0 73 ....BOOMERANG.
518f: 51 BB 19 03 00 85 57 49 52 45 C0 83 51 BB 19 04 Q....WIRE..Q..
519f: 00 85 4D 4F 56 45 C0 94 51 BB 19 05 00 88 50 49 ..MOVE..Q....P
51af: 43 4B 2E 55 50 C0 A0 51 BB 19 06 00 85 51 52 41 CK.UP..Q....QR
51bf: 59 C0 AC 51 BB 19 07 00 85 53 49 4E 47 C0 BB 51 Y..Q....SING..
51cf: BB 19 08 00 89 46 45 45 4C 2E 46 4F 52 C0 C7 51 ....FEEL.FOR..
51df: BB 19 09 00 89 4C 4F 4F 4B 2E 46 4F 52 C0 D3 51 ....LOOK.FOR..
51ef: BB 19 0A 00 86 53 4D 45 4C 4C C0 E3 51 BB 19 0B ....SMELL..Q..
51ff: 00 85 43 4F 49 4E C0 F3 51 BB 19 0C 00 84 4B 45 ..COIN..Q....K
520f: 59 C0 00 52 BB 19 0D 00 83 4E 3D C0 0C 52 BB 19 Y..R....N=..R.

```

cw.gm

```

50cf: 00 FF FF 00 00 FF FF 00 00 FF FF 00 00 FF FF 00 .....
50df: 00 FF FF 00 20 20 20 20 20 20 20 20 20 20 20 20 ....
50ef: 20 20 20 20 20 20 20 20 B1 4D 05 1B 00 FF 20 20 .....M....
50ff: 20 20 20 20 20 20 20 20 20 20 20 20 E3 50 05 1B .....P.
510f: FF 00 20 20 FD 50 05 1B FF 00 20 20 20 20 20 20 ..P....
511f: 20 20 20 11 51 05 1B 29 FF 20 20 20 20 20 20 20 ..Q..)
512f: 20 20 20 19 51 05 1B FF FF 20 20 20 20 20 20 20 ..Q....
513f: 20 20 20 20 28 51 05 1B FF 00 20 20 20 20 38 51 ..(Q....8
514f: 05 1B 29 FF 20 20 20 20 20 20 20 20 20 20 20 49 ..)..
515f: 51 BB 19 00 00 20 20 20 20 20 20 20 20 20 53 51 Q....S
516f: BB 19 01 00 20 20 20 20 20 20 20 20 20 20 64 51 ....d
517f: BB 19 02 00 20 20 20 20 20 20 20 20 20 20 73 ....
518f: 51 BB 19 03 00 20 20 20 20 20 20 83 51 BB 19 04 Q....Q..
519f: 00 20 20 20 20 20 20 94 51 BB 19 05 00 20 20 20 ..Q....
51af: 20 20 20 20 20 20 A0 51 BB 19 06 00 20 20 20 20 .....Q....
51bf: 20 20 AC 51 BB 19 07 00 20 20 20 20 20 20 BB 51 ..Q....
51cf: BB 19 08 00 20 20 20 20 20 20 20 20 20 C7 51 ....
51df: BB 19 09 00 20 20 20 20 20 20 20 20 20 D3 51 ....
51ef: BB 19 0A 00 20 20 20 20 20 20 20 E3 51 BB 19 0B ....Q..
51ff: 00 20 20 20 20 20 F3 51 BB 19 0C 00 20 20 20 ..Q....
520f: 20 20 00 52 BB 19 0D 00 20 20 20 20 0C 52 BB 19 Y..R....R.

```


Lets Go : bijna

18df:	20	20	20	53	55	50	45	52	2D	46	4F	52	54	48	20	36			SUPER-FORTH	6		
18ef:	34	20	56	20	32	2E	31	20	0D	20	20	43	4F	50	59	52	4	V	2.1	.		COPYR
18ff:	49	47	48	54	20	31	39	38	34	20	42	59	20	45	4C	4C			IGHT	1984	BY	ELL
190f:	49	4F	54	20	42	2E	20	53	43	48	4E	45	49	44	45	52			IOT	B.		SCHNEIDER

You are not logged in - nap

Super-Forth 64 V2.2R [1984]



Release Date :
1984

Type :
C64 Tool

User rating: awaiting 8 votes (8 left)

Credits :
No credits found

Download :
<http://csdb.dk/getinternalfile.php/191954/SuperForth22R.d64> (downloads: 110)

Look for downloads on external sites:
Pokefinder.org

Search CSdb

All

Advanced

Navigate

Prev - Random - Next

Detailed Info

- Summaries
- User Comments
- Production Notes

Fun Stuff

- Goofs
- Hidden Parts
- Trivia

Forum

- Discuss this release

Support CSdb

Help keep CSdb running:

[Make a donation](#)

Funding status:



Studeren: MVP-FORTH

\$E000	C64 Kernel ROM (8k high RAM)	57344
\$D000	C64 MEMORY MAPPED I/O AREA (4k high RAM)	53248
\$CF80	FORTH USER VARIABLES	53120
\$AF60	DISK BUFFER AREA (initially 8 buffers)	44896
	FORTH DICTIONARY FREE SPACE	
\$63A4		25508
	FORTH DICTIONARY SUPER FORTH 64 HIGH LEVEL EXTENSION DEFINITIONS (source code provided)	
\$3394		13204
	FORTH DICTIONARY SUPER FORTH 64 EXTENSION DEFINITIONS (reclaimable)	
\$2CD7		11479 <--Minimum system
	FORTH DICTIONARY MVP KERNEL DEFINITIONS	
\$0810		2064
\$0200	SCREEN & C64 Kernel DATA	512
\$0100	RETURN STACK & TERMINAL INPUT BUFFER	256
\$0000	ZERO PAGE AREA	

Screen 245 ends here

```
'CW',  
'SERIES',  
'END',  
'DIE',  
'S^',  
'INIT.CHIPWITS',  
'GAME',
```

Screen 242 starts here,

Screen 310 ends here

LOADS

SCREEN 001

(CHIPWIT GAME LOADER)

(FORGET IT : IT ;) FORTH

172 182 THRU (DATA & COMMON ROUTINES)

255 255 THRU (DISK?)

183 195 THRU

246 254 THRU (CHAR ROUTINES)

256 265 THRU (IBOL GRAPHICS)

330 338 THRU (STAT NAMES)

266 275 THRU (DEBUG)

320 329 THRU (STACK,REG STUFF)

276 290 THRU (WORKSHOP)

" S0:CWLO" DOS SAVE-FORTH "CWLO"

EXIT 339 LOAD (HI)

game

```

17cf: 2F 1F 32 09 A1 21 0F 22 1A 08 32 09 24 20 3F 18 /.2...!.."..2.$ ?
17df: 86 43 48 41 52 49 CE B6 17 EA 17 86 83 AE FC 20 .CHARI. ....
17ef: F0 03 20 C6 FF 20 CF FF 4C 19 0F 85 43 4C 45 41 .. ..L..CLE
17ff: D2 DF 17 B0 0D 1A 24 A2 15 0C 0B E4 16 0F 22 00 .....$....."
180f: 04 82 16 F4 1E FE 2A C3 1E 85 43 4D 4F 56 C5 FA .....*...CMOV.
181f: 17 B0 0D B5 1D 27 0D DB 0D 08 0D 0A 00 09 1C AA .....'.
182f: 1D C6 16 04 00 EE 0F C3 1E 84 43 4F 4C C4 18 18 .....COL..
183f: 41 18 A9 44 A2 18 A0 AC 4C 50 18 A9 0F A2 18 A0 A..D....LP....
184f: D0 85 87 84 04 86 05 A5 01 29 FE 85 01 A9 40 8D .....). ....@
185f: F9 FF A9 FF A0 F9 8C FA FF 8D FB FF 8C FE FF 8D .....
186f: FF FF A9 13 8D 02 03 A9 08 8D 03 03 A5 87 A8 AD .....
187f: 1A 08 85 02 AD 1B 08 85 03 B9 16 08 91 02 88 10 .....
188f: F8 A9 0F 8D 21 D0 A9 0C 8D 20 D0 A9 00 8D FC 20 ...!.....
189f: 8D 44 24 D8 A9 6C 85 80 4C 1A 26 B0 0D E4 28 01 .D$.1..L.&... (
18af: 1E 2D 1F 1A 2B 32 09 A1 21 0F 22 04 04 A3 0B C2 .-..+2...!.."....
18bf: 24 32 09 59 1D 0B 21 A2 15 0F 22 17 20 32 09 32 $2.Y...!...".. 2.:
18cf: 1C E4 28 70 24 60 0E 49 97 20 20 20 20 20 20 20 ..(p$`.I.
18df: 20 20 20 53 55 50 45 52 2D 46 4F 52 54 48 20 36 SUPER-FORTH
18ef: 34 20 56 20 32 2E 31 20 0D 20 20 43 4F 50 59 52 4 V 2.1 . COPY
18ff: 49 47 48 54 20 31 39 38 34 20 42 59 20 45 4C 4C IGH 1984 BY EL
190f: 49 4F 54 20 42 2E 20 53 43 48 4E 45 49 44 45 52 IOT B. SCHNEIDER

```

FORTH's Bereik: Toepassingen Buiten het Rijk van Spellen

As you know, the phrase

`VARIABLE DATE`

creates a definition which conceptually looks like this:

DATE
code
room for a single-length value

CHIPWITS

FROM *EDYX*

BY DOUG SHARP
AND
MIKE JOHNSTON



© DISCOURSE, INC., 1985

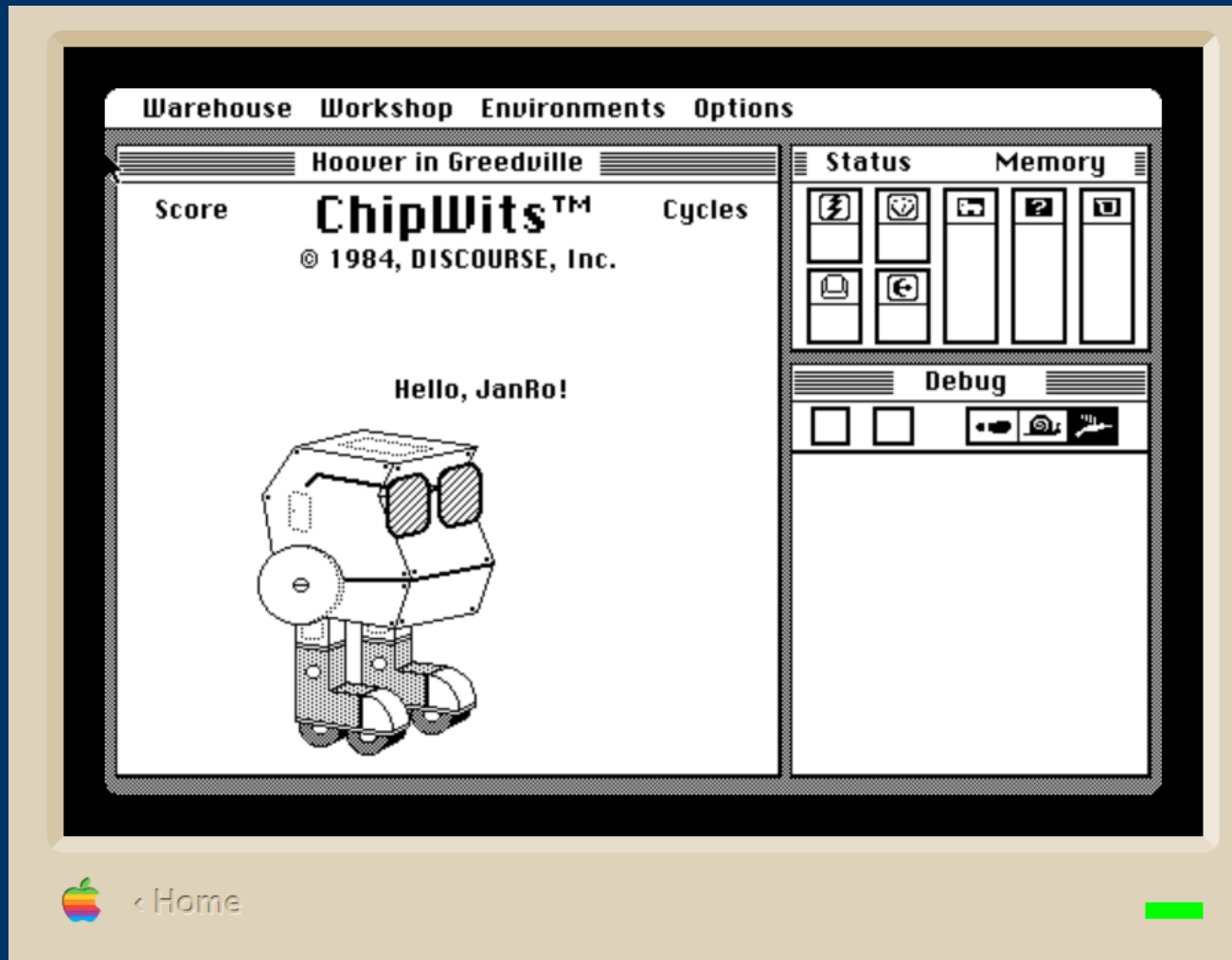
De Puzzel Begint: Navigeren door een Zee van Broncode



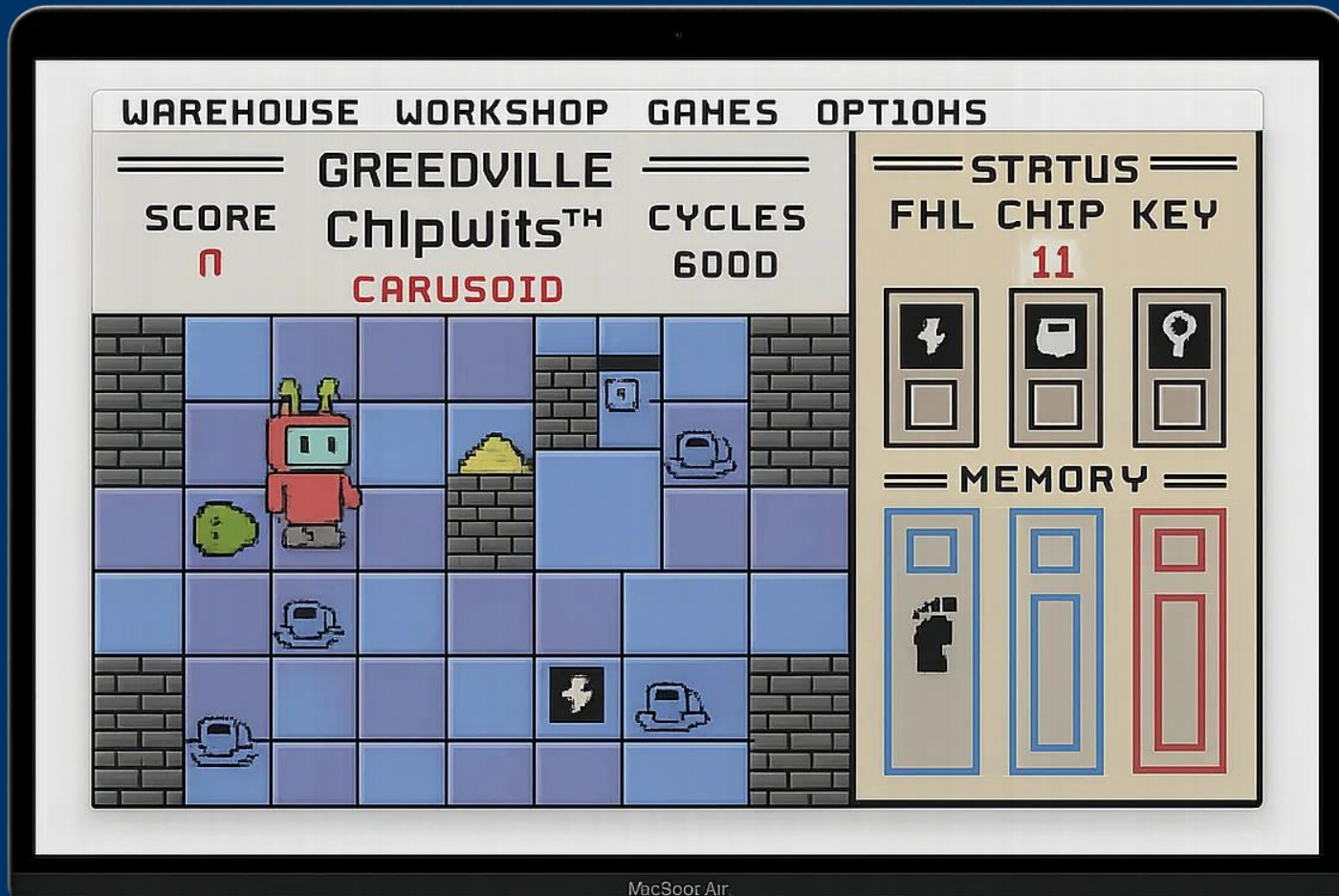
Diep Duiken: SuperForth 64 Begrijpen



Binnenin FORTH: Het Onderzoeken van WORDS en Geheugenorganisatie



De Code Kraken: Het Reconstrueren van de Compilatievolgorde



Vragen? Laten we Praten over ChipWits en FORTH!



Eureka! Het Ontdekken van de Ongrijpbare SuperForth 2.1



ChipWits.com
janro@chipwits.com