

```
ds 280 nbtk 1440 nc 8 cr
colorforth v3.5c g144/1.2 greenarrays, inc cr
20 load 22 load 24 load colors 28 load cr
decompress mark 30 load restore empt
env 34 winver 2* + ; env ironment load cr
46 load 62 4 loads 88 load br

dump 48 load ; background dump
floppy 52 load ; format, archive, set video
icons 54 load ; edit chars
save 84 load ;
audit 90 load ; disk audit utility
png winver drop if 168 load then ;
html winver drop if 176 load then ;
index winver drop if 76 load then ; br

blocks 0-143 are public domain software cr
mark empty arrayforth 144 load 11/18/10 830
```

```
s o t yrgx
cdfj ludr
ab k -mc+
edit x.i
```

colorForth



more instructions
+* 10 i, ; slot 3 ok
2* 11 i, ;
2/ 12 i, ;
- 13 i, ;
+ 14 i, ; slot 3 ok
and 15 i, ;
or 16 i, ; exclusive-or
drop 17 i, ;
dup 18 i, ; slot 3 ok
pop 19 i, ;
over 1a i, ;
a 1b i, ;
push 1d i, ;
b! 1e i, ;
a! 1f i, ;

s o t y n g x
c d f j l u d r
a b k - m c +
edit x.i

colorForth

```
myvar 20
demo 10 for 1 myvar +! next ;
demo2 0 10 for 1 + next ;»
```



s o t yrgx
cdfj ludr
ab k -mc+
edit x.i

colorForth



```
myvar 20
demo 10 for 1 myvar +! next ;
demo2 0 10 for 1 + next ;
test 0 or drop if ; then ;>
```



s o t yrgx
cdfj ludr
ab k -mc+
e x.i

colorForth



```
fir or fir filter
taps yxc-y'x' pop at push begin indent
@+ @ push a push *.17 pop at indent
push !+ pop . + pop next @ at ;
```



```
s o t yrgx
cdfj ludr
ab k -mc+
edit x.i
```

colorForth



taps yxc-y'x' cr
for example... br

fir yx-y'x' 15 taps -53 , 0 , 2276 , 0 , 382 ,
0 , -1706 , 0 , -1158 , 0 , 2014 , 0 , 2406 ,
0 , -1977 , 0 , -4206 , 0 , 1289 , 0 , 6801 ,
0 , 678 , 0 , -11109 , 0 , -6250 , 0 , 23531 ,
0 , 54145 , 0 , br

16 taps, 16 coefficients with intermediate cr
storage interleaved. >

s o t yrgx
cdfj ludr
ab k -mc+
edit x.i

```
common cr
1d5 org -cr r--- cr
115 org -cr -d-- cr
175 org -cr --l- cr
145 org -cr ---u cr
1a5 org -cr rdlu right down left up cr
1b5 org -cr rdl- right down left cr
185 org -cr rd-u right down up cr
195 org -cr rd-- right down cr
135 org -cr -dl- cr
165 org -cr --lu cr
1c5 org -cr r--u
```

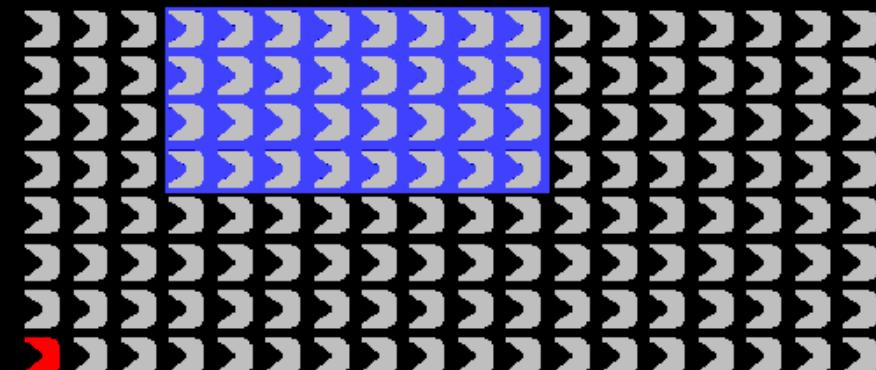
s o t yrgx
cdfj ludr
ab k -mc+
edit x.i

7031d5	704175	7051d5	706175	7071d5	708175	7091d5	710175
04fet							
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
04555	04555	04555	04555	04555	04555	04555	04555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
0015d							

6031d5	604175	6051d5	606175	6071d5	608175	6091d5	610175
04fet							
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
04555	04555	04555	04555	04555	04555	04555	04555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
0015d							

5031d5	504175	5051d5	506175	5071d5	508175	5091d5	510175
04fet							
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
04555	04555	04555	04555	04555	04555	04555	04555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
0015d							

4031d5	404175	4051d5	406175	4071d5	408175	4091d5	410175
04fet							
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
04555	04555	04555	04555	04555	04555	04555	04555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
0015d							

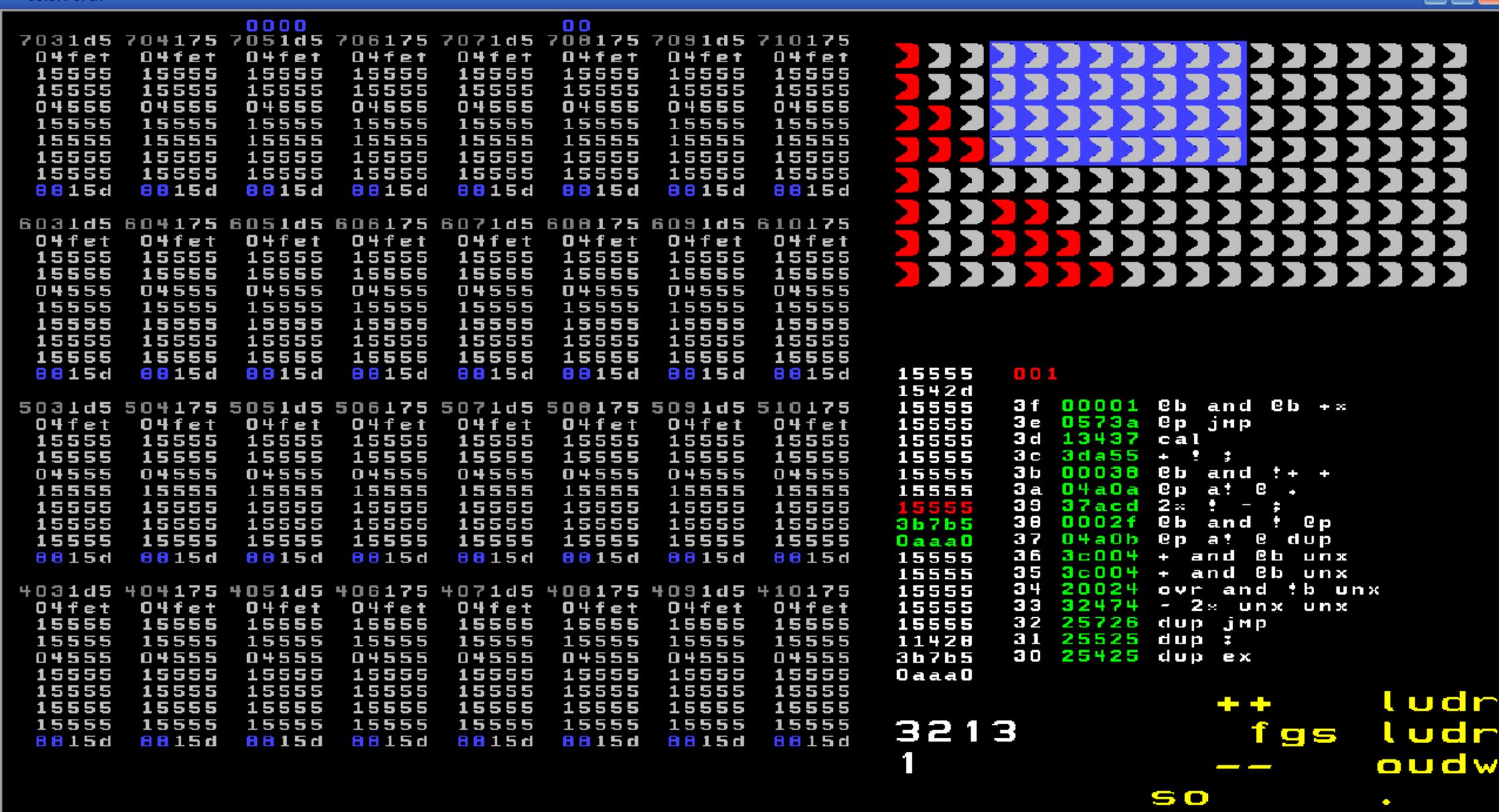


15555 001

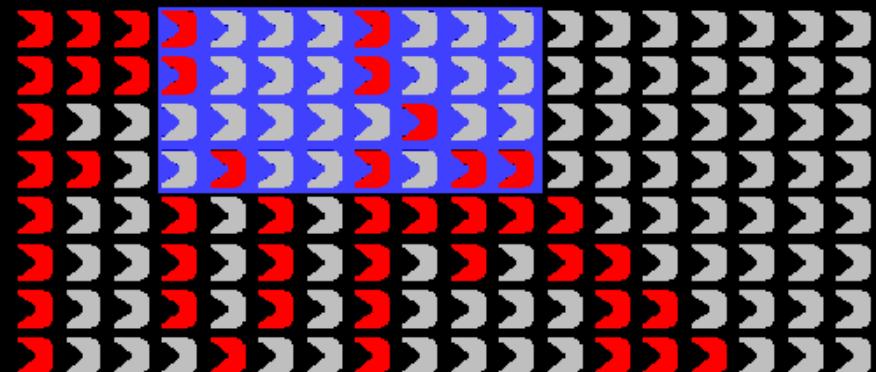
15555	3f	134a9	cal
15555	3e	134a9	cal
15555	3d	134a9	cal
15555	3c	134a9	cal
15555	3b	134a9	cal
15555	3a	134a9	cal
15555	39	134a9	cal
15555	38	134a9	cal
15555	37	134a9	cal
15555	36	134a9	cal
15555	35	134a9	cal
15555	34	134a9	cal
15555	33	134a9	cal
15555	32	134a9	cal
15555	31	134a9	cal
15555	30	134a9	cal

1
1

++ ludr
fgs ludr
-- oudw
so .



	0000	00					
70302d	7041a5	7051a5	7061a5	70703a	708175	7091d5	710175
14 fet	04 fet	04 fet	04 fet	11 !	04 fet	04 fet	04 fet
1b42d	115a5	115a5	115a5	37acd	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
14555	00155	00155	00155	04555	04555	04555	04555
15555	15555	15555	15555	15412	15555	15555	15555
1ffd1f	3ffbf	3ff7f	3feff	00400	15555	15555	15555
Oaaa0	15555	Oaaa0	15555	00200	15555	15555	15555
00041	00041	00041	00041	00036	15555	15555	15555
08175	aa1d5	aa175	aa1d5	8815d	8815d	8815d	8815d
60302d	6041a5	6051a5	6061a5	607001	608175	6091d5	610175
24 fet	04 fet	04 fet	04 fet	00ep	04 fet	04 fet	04 fet
1b42d	115a5	115a5	115a5	05b13	15555	15555	15555
15555	15555	15555	15555	15555	15555	15555	15555
14155	00155	00155	00155	04155	04555	04555	04555
15555	15555	15555	15555	1542d	15555	15555	15555
1ffd1f	3ffbf	3ff7f	3feff	11428	15555	15555	15555
Oaaa0	15555	Oaaa0	15555	3fdfff	15555	15555	15555
00041	00041	00041	00041	00035	15555	15555	15555
0a175	aa1d5	aa175	aa1d5	8a175	8815d	8815d	8815d
5031a5	5041a5	5051a5	5061a5	5071a5	508007	5091d5	510175
04 fet	04 fet	04 fet	04 fet	02 psh	00ep	04 fet	04 fet
115a5	115a5	115a5	115a5	115a5	08dba	05872	15555
15555	15555	15555	15555	15555	15555	15555	15555
00155	00155	00155	00155	00155	00555	04555	04555
15555	15555	15555	15555	15555	1542d	00040	15555
3fedf	3fdbf	3fb7f	3f6ff	3edff	00040	15555	15555
Oaaa0	15555	Oaaa0	15555	Oaaa0	00040	15555	15555
00041	00041	00041	00041	00041	00034	00040	15555
aa175	aa1d5	aa175	aa1d5	aa175	a81d5	8815d	8815d
4031a5	40402d	4051a5	4061a5	40702e	4081a5	409009	410175
04 fet	04 fet	04 fet	04 fet	20 -if	04 fet	02 unx	01 ! +
115a5	1b42d	115a5	115a5	1b42d	115a5	07b72	05872
15555	15555	15555	15555	15555	15555	15555	15555
00155	00155	00155	00155	00555	00155	05555	05555
15555	15555	15555	15555	15555	0003d	0003d	0003d
2dc5f	1b8bf	3717f	2e2ff	1c5ff	38bff	11428	09d27
Oaaa0	15555	Oaaa0	15555	Oaaa0	15555	317ff	15555
00041	00041	00041	00041	00041	00041	00044	00043
aa175	aa1d5	aa175	aa1d5	a8175	aa1d5	80175	8015d



15555	001
1542d	3f 00001 Eb and Eb ++
15555	3e 0573a Ep jmp
3d 13437	cal
3c 3da55	+ ! ;
3b 00038	Eb and t++
3a 04a0a	Ep at E.
39 37acd	2x ! - ;
3b7b5	38 0002f Eb and t Ep
Oaaa0	37 04a0b Ep at E dup
15555	36 3c004 + and Eb unx
35 3c004	+ and Eb unx
34 20024	ovr and t b unx
33 32474	- 2x unx unx
32 25726	dup jmp
11428	31 25525 dup :
3b7b5	30 25425 dup ex
Oaaa0	

2053	++ ludr
20	fgs ludr
so	-- oudw

```

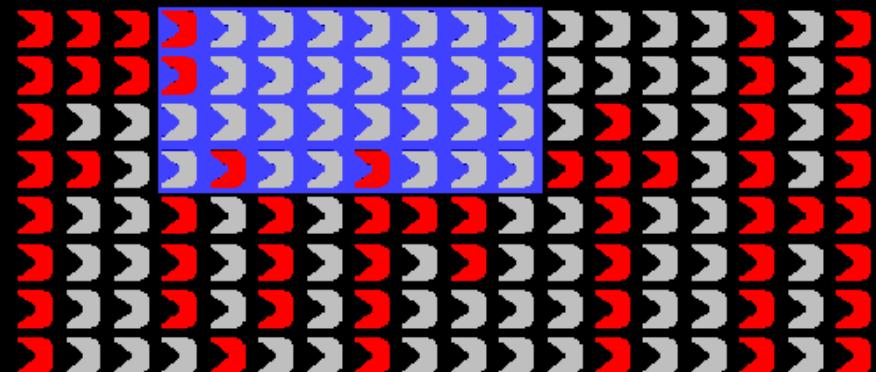
0000      00
70302d 7041a5 7051a5 7061a5 7071a5 7081a5 7091a5 7101a5
14 fet 04 fet
1b42d 115a5 115a5 115a5 115a5 115a5 115a5 115a5 115a5
15555 15555 15555 15555 15555 15555 15555 15555
14555 00155 00155 00155 00155 00155 00155 00155 00155
15555 15555 15555 15555 15555 15555 15555 15555
1ffd1 3ffbf 3ff7f 3feff 3fdff 3fbff 3f7ff 3efff
0aaa0 15555 0aaa0 15555 0aaa0 15555 0aaa0 15555
00041 00041 00041 00041 00041 00041 00041 00041
08175 aa1d5 aa175 aa1d5 aa175 aa1d5 aa175 aa1d5

60302d 6041a5 6051a5 6061a5 6071a5 6081a5 6091a5 6101a5
24 fet 04 fet
1b42d 115a5 115a5 115a5 115a5 115a5 115a5 115a5 115a5
15555 15555 15555 15555 15555 15555 15555 15555
14155 00155 00155 00155 00155 00155 00155 00155 00155
15555 15555 15555 15555 15555 15555 15555 15555
1ffd1 3ffbf 3ff7f 3feff 3fdff 3fbff 3f7ff 3efff
0aaa0 15555 0aaa0 15555 0aaa0 15555 0aaa0 15555
00041 00041 00041 00041 00041 00041 00041 00041
0a175 aa1d5 aa175 aa1d5 aa175 aa1d5 aa175 aa1d5

5031a5 5041a5 5051a5 5061a5 5071a5 5081a5 5091a5 5101a5
04 fet 04 fet
115a5 115a5 115a5 115a5 115a5 115a5 115a5 115a5
15555 15555 15555 15555 15555 15555 15555 15555
00155 00155 00155 00155 00155 00155 00155 00155
15555 15555 15555 15555 15555 15555 15555 15555
3fedf 3fdbf 3fb7f 3f6ff 3edff 3dbff 3b7ff 36fff
0aaa0 15555 0aaa0 15555 0aaa0 15555 0aaa0 15555
00041 00041 00041 00041 00041 00041 00041 00041
aa175 aa1d5 aa175 aa1d5 aa175 aa1d5 aa175 aa1d5

4031a5 40402d 4051a5 4061a5 40702e 4081a5 4091a5 4101a5
04 fet 04 fet 04 fet 04 fet 20-if 04 fet 04 fet 04 fet
115a5 1b42d 115a5 115a5 1b42d 115a5 115a5 115a5
15555 15555 15555 15555 15555 15555 15555 15555
00155 00155 00155 00155 00155 00155 00155 00155
15555 15555 15555 15555 15555 15555 15555 15555
2dc5f 1b8bf 3717f 2e2ff 1c5ff 38bff 317ff 22fff
0aaa0 15555 0aaa0 15555 0aaa0 15555 0aaa0 15555
00041 00041 00041 00041 00041 00041 00041 00041
aa175 aa1d5 aa175 aa1d5 aa175 aa1d5 aa175 aa1d5

```



15555	001	
1542d		
15555	3f 00001	eb and eb ++
15555	3e 0573a	ep jmp
15555	3d 13437	cal
15555	3c 3da55	+ ! ;
15555	3b 00038	eb and t++
15555	3a 04a0a	ep at e .
15555	39 37acd	2x! - ;
15555	3b7b5 38 0002f	eb and t ep
15555	0aaa0 37 04a0b	ep at e dup
15555	36 3c004	+ and eb unx
15555	35 3c004	+ and eb unx
15555	34 20024	ovr and tb unx
15555	33 32474	- 2x unx unx
15555	32 25726	dup jmp
11428	31 25525	dup :
3b7b5	30 25425	dup ex
Oaaa0		

12473
1

++	ludr
fgs	ludr
--	oudw
so	.