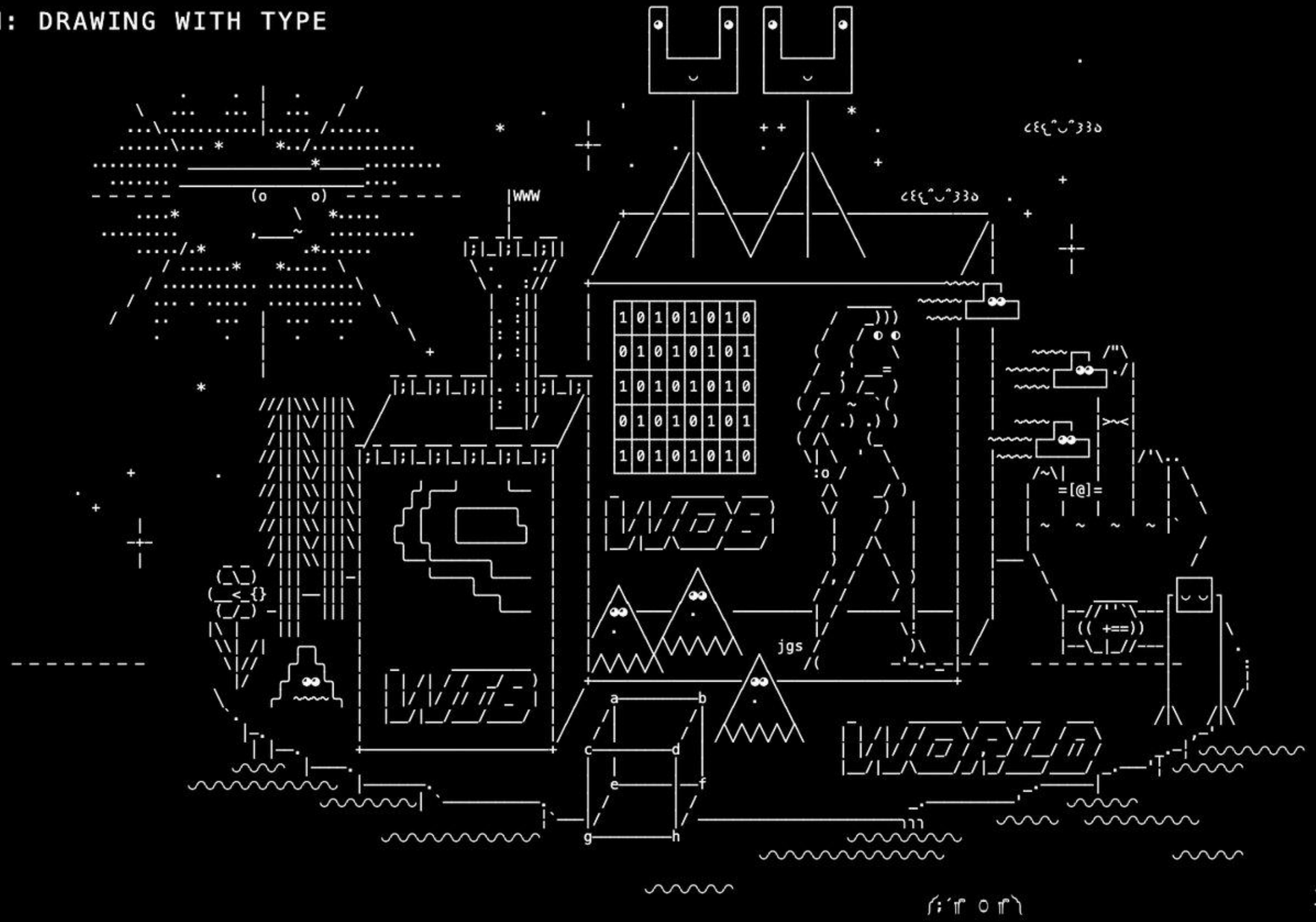
EXAPTATION: DRAWING WITH TYPE

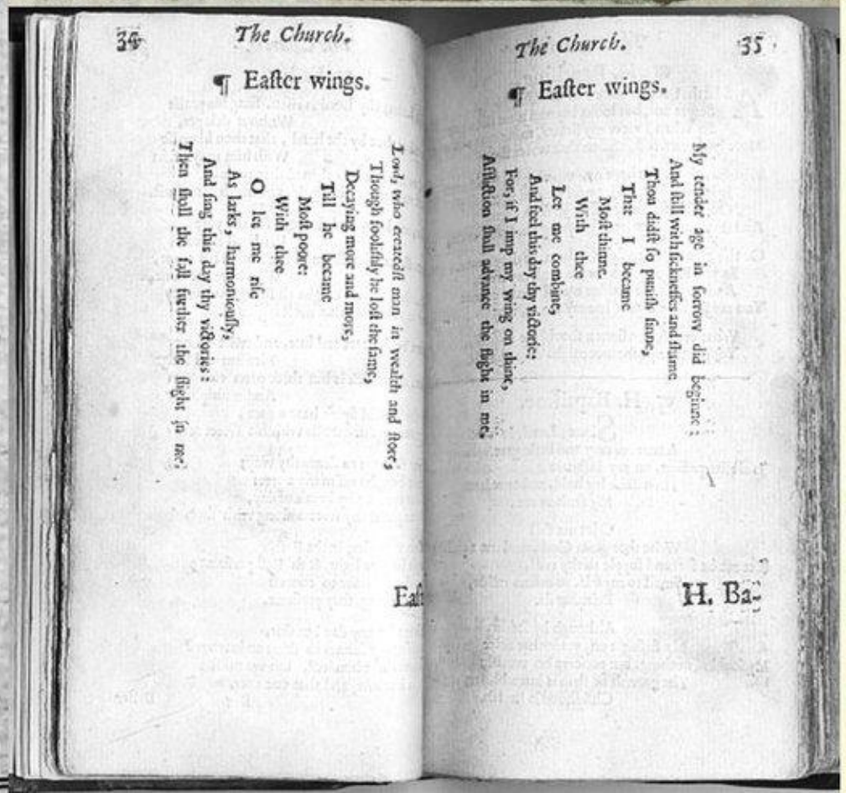


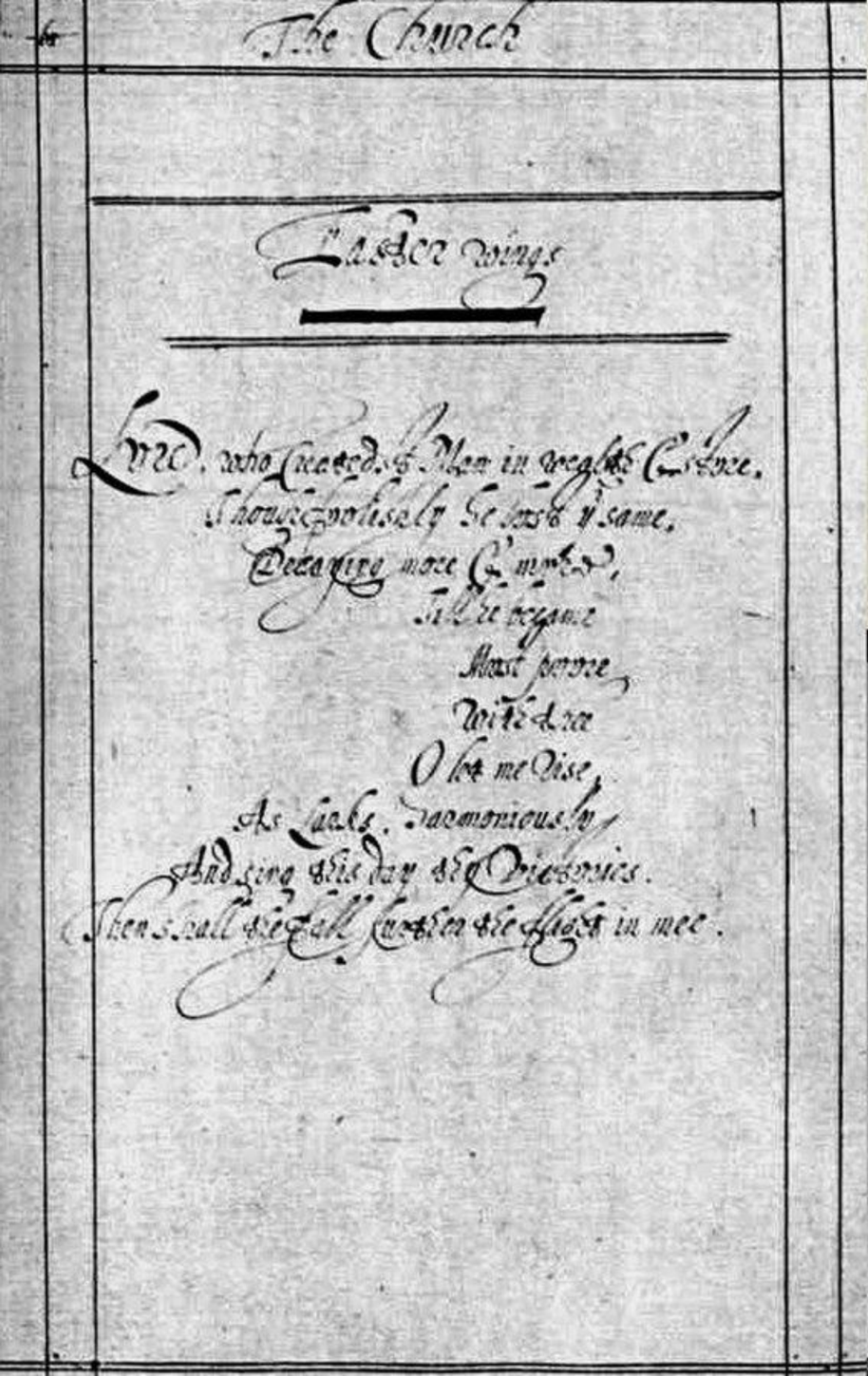
X: hey_zilla
IG: wibandwob
wibandwob.com
james@greig.cc

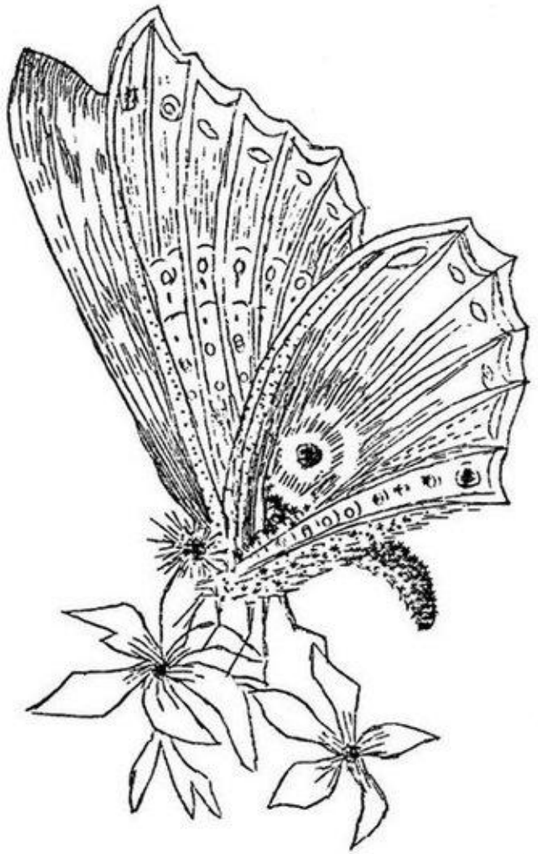
she kept on puzzling about it while the Mouse was speaking, so that her idea of the tale was something like this –

'Fury said to a
mouse that
he met in
the house,
"Let us
both go to
to law: *I*
will prosecute
you. Come,
I'll take no
denial: we
must have a
trial: for
really this
morning
I've noth-
ing to do."
Said the
mouse to
the cur,
"Such a
trial, dear
sir, with
no jury
or judge,
would be
wasting
our
breath."
"I'll be
judge, I'll
be jury,"
said
cun-
ning
old
Fury:
"I'll
try
the
whole
cause,
and
con-
demn
you to
death."'



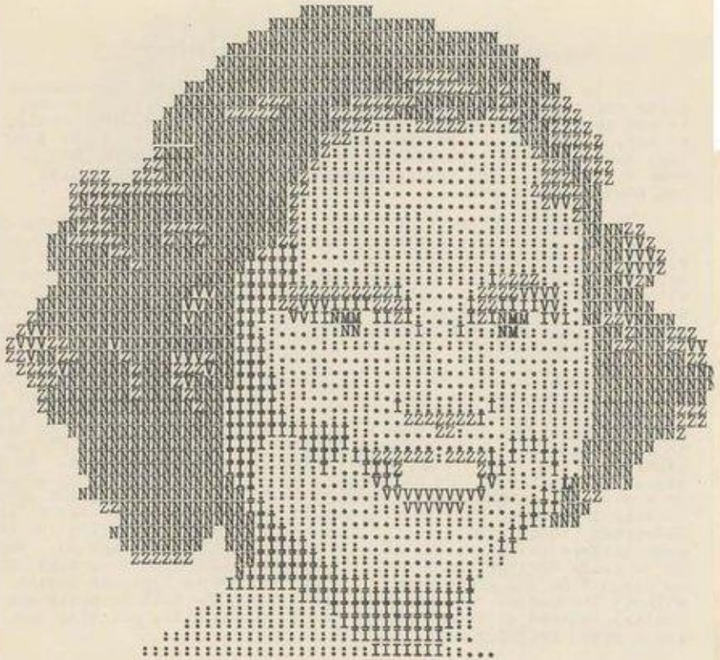






(For description see previous page.)





Auszug 1893–1939 · typed pictures

Schreibmaschinen-Zeitung

Monatsschrift für das gesammte Schreibmaschinenwesen.

Herausgeber: Otto Burghagen, Handelsschuldirector. — Redaction und Expedition: HAMBURG, Bergstr. 21
(Post-Zeitungs-Preisliste 11. Nachtrag No. 6563a.)

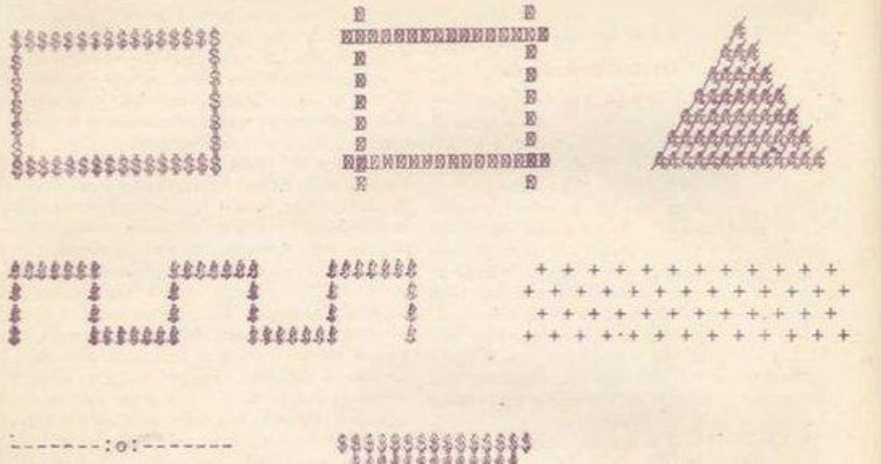
Der Abonnementspreis beträgt halbjährlich 1 Mark ohne Bringerlohn. Bestellungen nehmen alle Postanstalten, Buchhandlungen, sowie die Expedition entgegen. Zusendung unter Streifband 1,30 Mark im Inlande, und 1,50 Mark im Auslande (Weltpostverein).

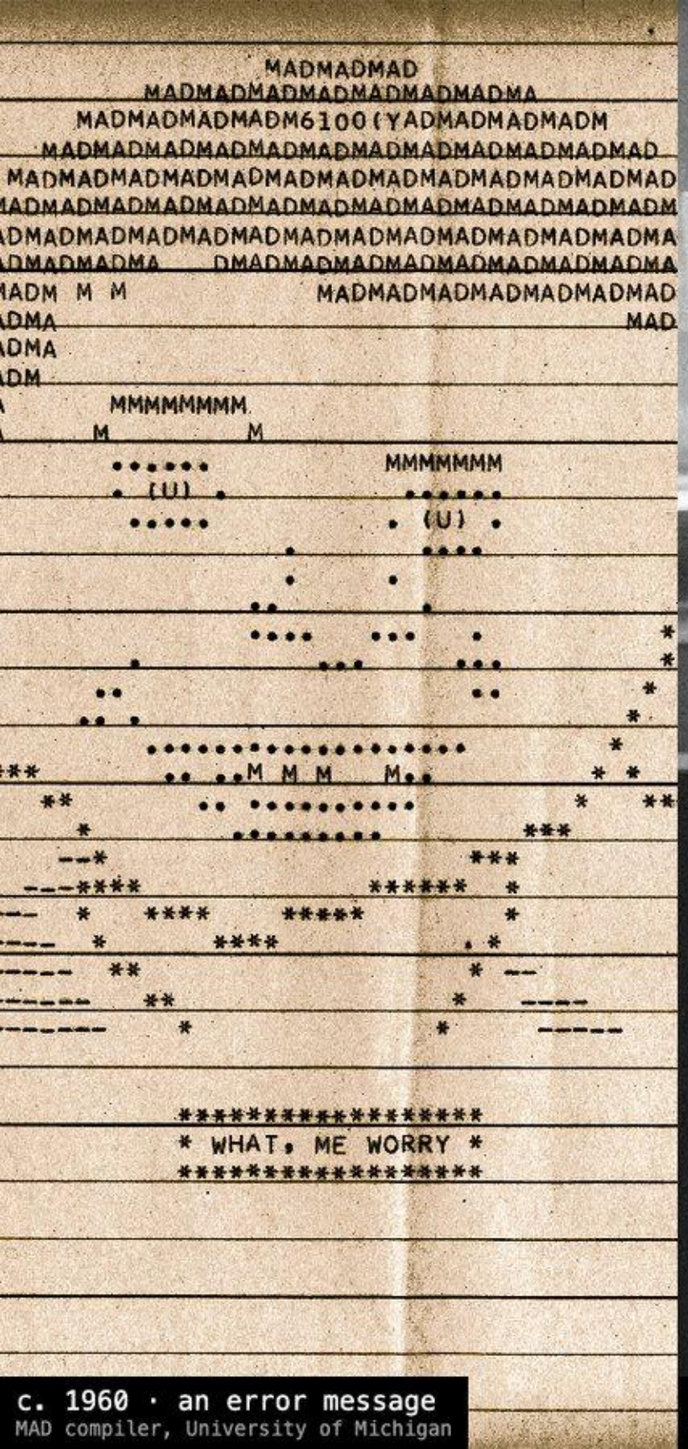
Insertionsgebühr 30 Pfennige die Petitzeile (Stellengesuche 10 Pfennige pro Zeile). — ½ Seite 60 Mark. — ¼ Seite 35 Mark. — ⅛ Seite 20 Mark. — Wiederholungen nach Uebereinkunft. Annoncen an bevorzugter Stelle unterliegen einer Zuschlagsgebühr. Vorausbezahlung an den Herausgeber. Erfüllungsort Hamburg.

No. 3. Hamburg, 15. September 1898. I. Jahrg.

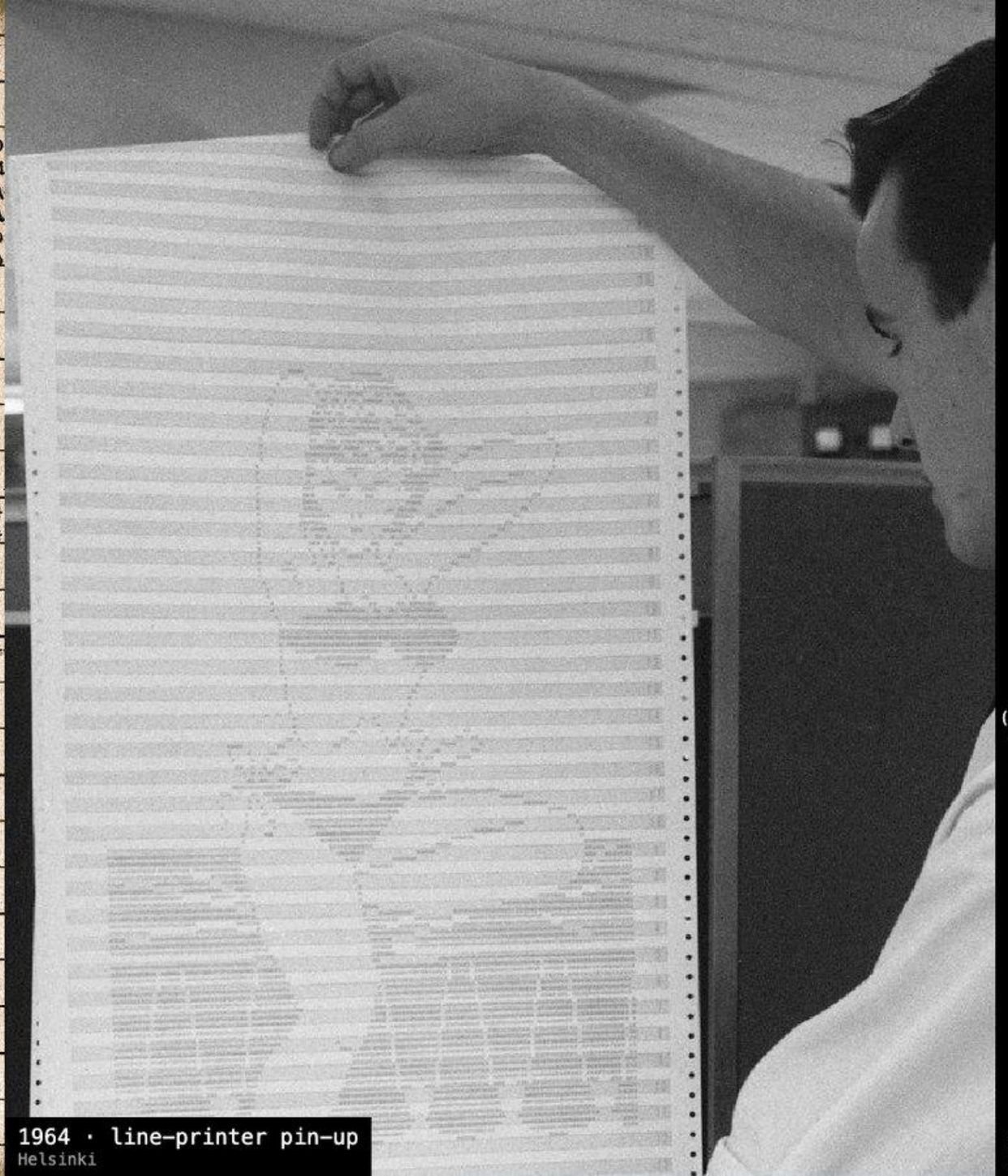


PLATE VIII.

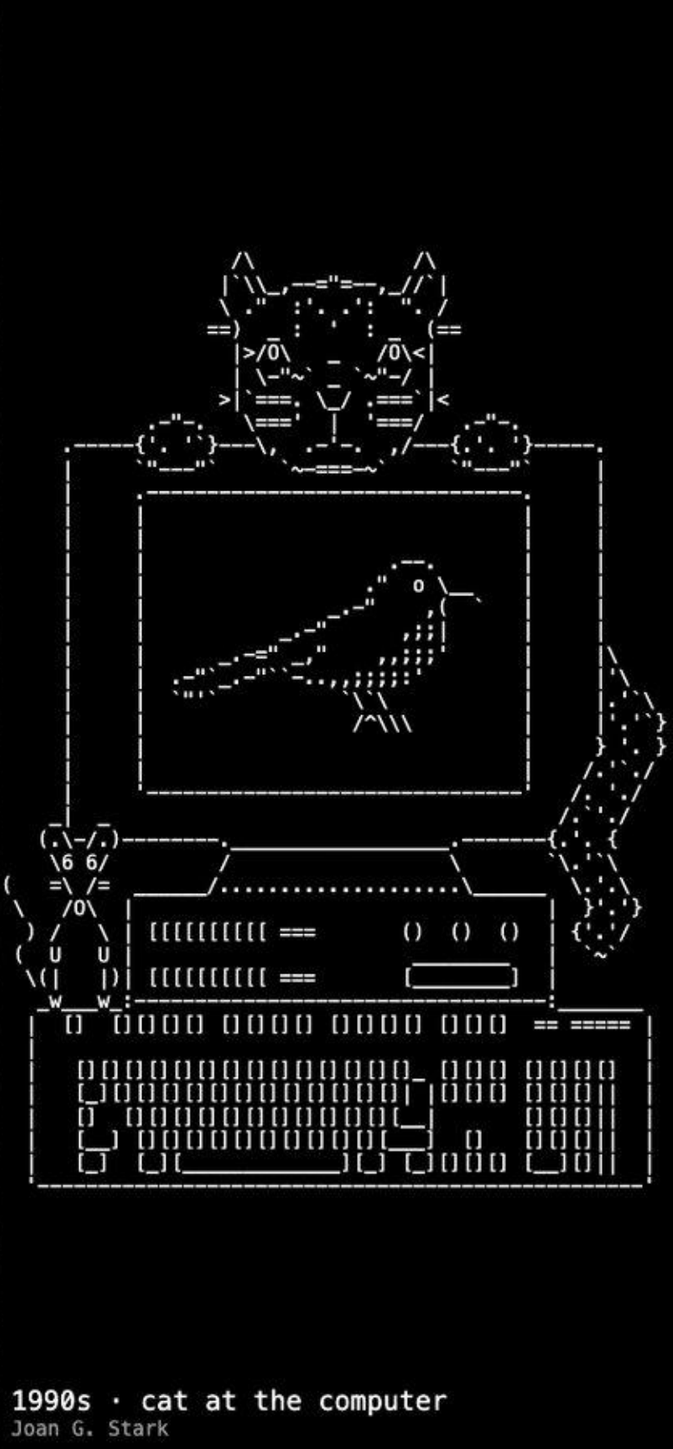




c. 1960 · an error message
MAD compiler, University of Michigan



1964 · line-printer pin-up
Helsinki



1990s · cat at the computer
Joan G. Stark

ASCII · American Standard Code for Information Interchange · a character encoding standard, 1963



1913 · Baudot telegraph office, Amsterdam

1844 · Morse
telegraph · dots and dashes
W ·——

↓

1932 · ITA2
teleprinter · 5 holes · 32 codes
W ●●○○●

↓

1963 · ASCII
7 bits · 128 codes
W ●○●○●●●

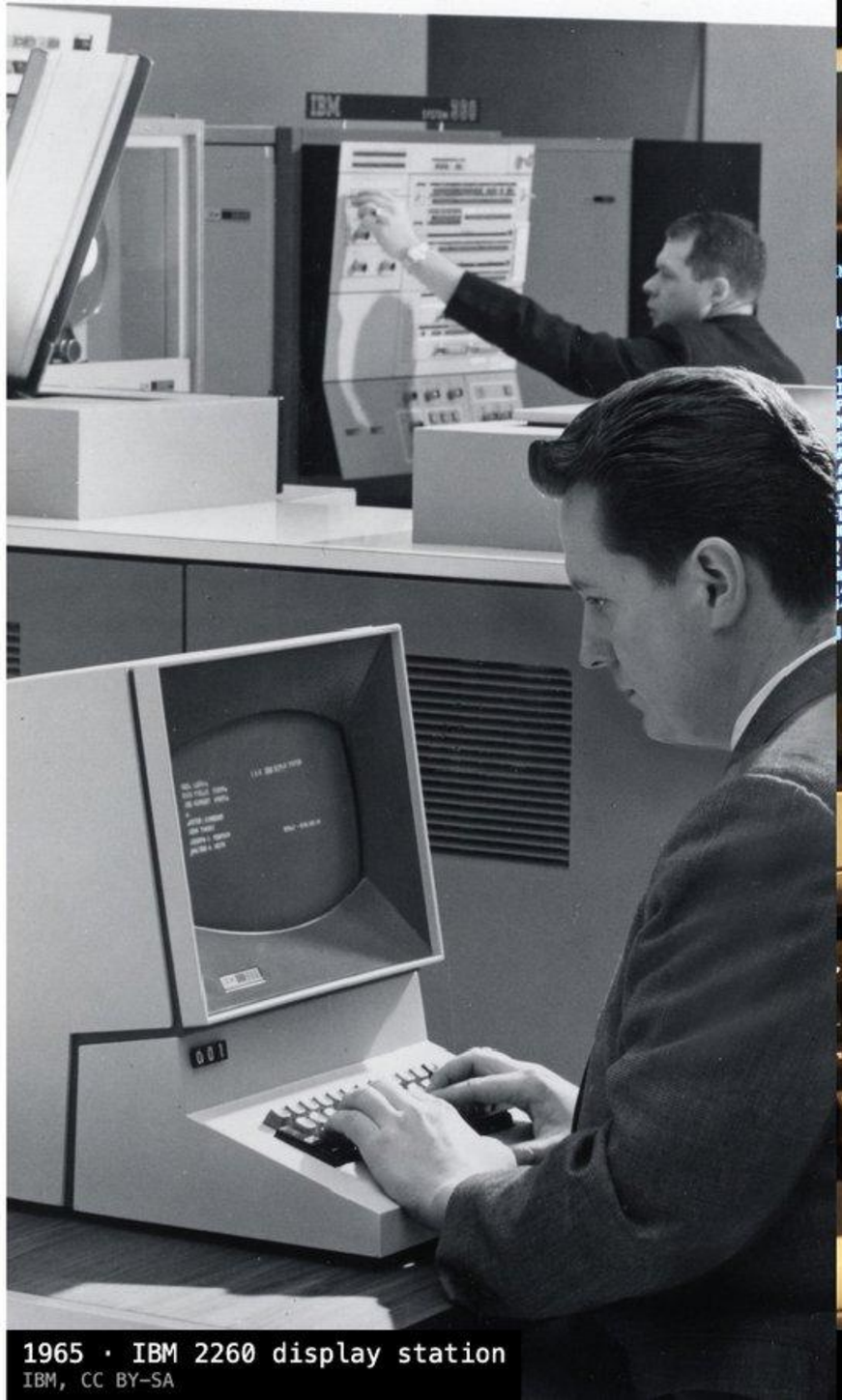
$b_7 b_6 b_5$ → / Bits / b_4 b_3 b_2 b_1 ↓ / Column → / Row ↓	000	001	010	011	100	101	110	111
	0	1	2	3	4	5	6	7
0 0 0 0	0	NUL	DLE	SP	0	@	P	`	p
0 0 0 1	1	SOH	DC1	!	1	A	Q	a	q
0 0 1 0	2	STX	DC2	"	2	B	R	b	r
0 0 1 1	3	ETX	DC3	#	3	C	S	c	s
0 1 0 0	4	EOT	DC4	$	4	D	T	d	t
0 1 0 1	5	ENQ	NAK	%	5	E	U	e	u
0 1 1 0	6	ACK	SYN	&	6	F	V	f	v
0 1 1 1	7	BEL	ETB	'	7	G	W	g	w
1 0 0 0	8	BS	CAN	(	8	H	X	h	x
1 0 0 1	9	HT	EM	)	9	I	Y	i	y
1 0 1 0	10	LF	SUB	*	:	J	Z	j	z
1 0 1 1	11	VT	ESC	+	;	K	[	k	{
1 1 0 0	12	FF	FS	,	<	L	\	l	|
1 1 0 1	13	CR	GS	—	=	M	]	m	}
1 1 1 0	14	SO	RS	.	>	N	^	n	~
1 1 1 1	15	SI	US	/	?	O	_	o	DEL

Columns 0–1 machine commands kept from the teleprinter: BEL rings the bell, CR carriage return, LF line feed
Column 2 space and punctuation
Column 3 the digits 0–9
Columns 4–5 capitals: A is 65 (100 0001), W is 87

Columns 6–7 lower case, added in 1967
DEL, 127 (111 1111) delete: all seven bits set. On paper tape a mistyped character was erased by punching out all its holes, and readers skipped the code



1963 · Teletype Model 33
Musée Bolo, CC BY-SA



1965 · IBM 2260 display station
IBM, CC BY-SA



1978 · DEC VT100
Jason Scott, CC BY



code page 437 · 256 characters · IBM PC, 1981

later, in Unicode: more characters to draw with

box drawing

blocks

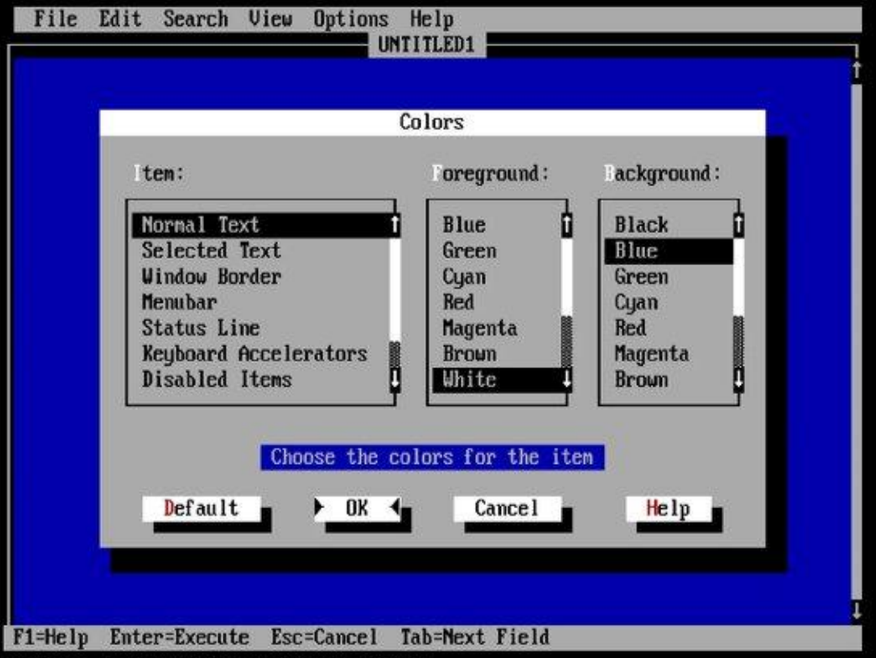
shapes

braille

kaomoji parts

The 16-colour text palette of the **IBM Color Graphics Adapter** (CGA, 1981), later the default in EGA and VGA

0 black	000000	1 blue	0000AA
2 green	00AA00	3 cyan	00AAAA
4 red	AA0000	5 magenta	AA00AA
6 brown	AA5500	7 light grey	AAAAAA
8 dark grey	555555	9 light blue	5555FF
10 light green	55FF55	11 light cyan	55FFFF
12 light red	FF5555	13 light magenta	FF55FF
14 yellow	FFFF55	15 white	FFFFFF

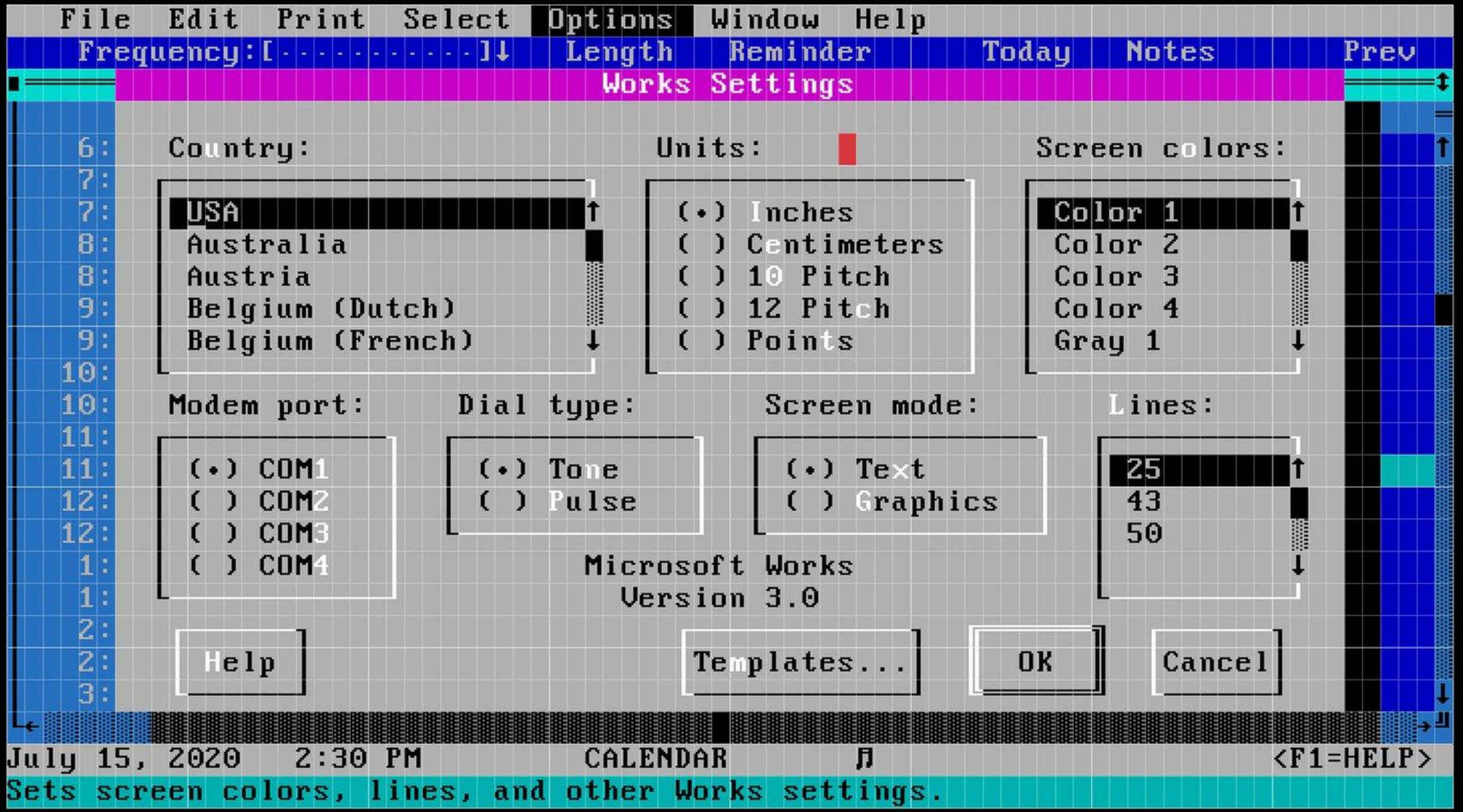


Borland Turbo Vision colours dialog



MS-DOS, Microsoft

80 × 25 = 2,000 cells × 2 bytes = 4,000 bytes
colour text at segment **B800**, mono at B000
cell offset = (row × 80 + col) × 2
RGBI: 4 bits; EGA picks 16 of 64 (2 bits per channel)


File Edit Print Select Options Window Help
Frequency:[ ]↓ Length Reminder Today Notes Prev
Works Settings
Country:
USA
Australia
Austria
Belgium (Dutch)
Belgium (French)
Units:
(•) Inches
( ) Centimeters
( ) 10 Pitch
( ) 12 Pitch
( ) Points
Screen colors:
Color 1
Color 2
Color 3
Color 4
Gray 1
Modem port:
(•) COM1
( ) COM2
( ) COM3
( ) COM4
Dial type:
(•) Tone
( ) Pulse
Screen mode:
(•) Text
( ) Graphics
Lines:
25
43
50
Microsoft Works
Version 3.0
Help
Templates...
OK
Cancel
July 15, 2020 2:30 PM
CALENDAR
<F1=HELP>
Sets screen colors, lines, and other Works settings.


EXPERT ASTROLOGER
(C) Copyright 1993 by MTW Technologies Inc., All Rights Reserved

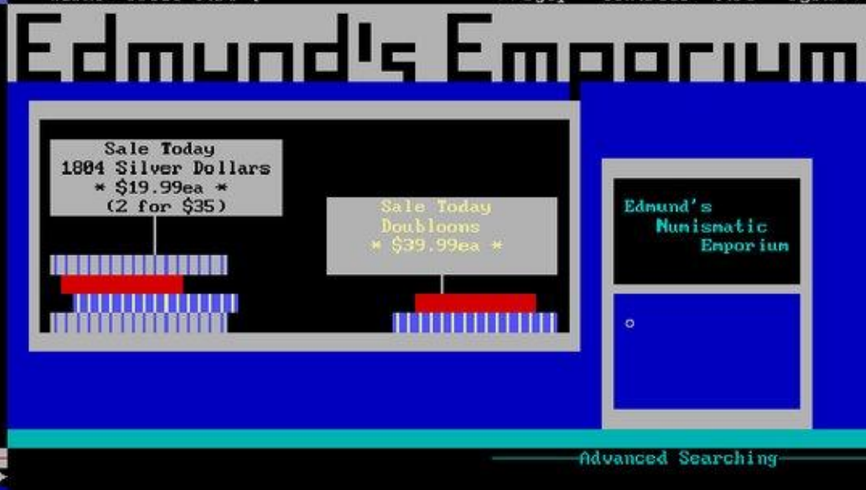

SETTING UP A COMMUNICATIONS FILE
Before you can communicate with another computer, you'll need to set up a Communications file.
First you'll view a demonstration of how to do this, and then you'll get a chance to practice.
Works: Press Ctrl+Q
Getting Started
◀◀◀PgUp • Controls: Ctrl • PgDn▶▶▶


Friends of the Rivers since 1953
SEABUDDY FROZEN POPS
WORLDWIDE FLORIST
Creating Form Letters


XII
IX
III
VI
New York
Tokyo
London
You can use Works Communications to transfer information across the street, or across the globe, in seconds.
Works: Press Ctrl+Q
Sending and Receiving
◀◀◀PgUp • Controls: Ctrl • PgDn▶▶▶


You've purchased the costumes for a production of "Oklahoma!" from an on-line shopping service, Charge-It Emporium. All that's lacking is the cast's boots.
In the following practices, you'll connect to the shopping service to see if they have the boots you need.
Works: Press Ctrl+Q
A Sample Session
◀◀◀PgUp • Controls: Ctrl • PgDn▶▶▶


EVENING JOURNAL
POPULAR POSTMASTER PUSHED TO PERIL
The body of S. Forest Treebalm, friendly Yakima postmaster, was found at the base of the Mt. St. Helens lava dome. "No one saw him fall," says Ranger Bob of the
CLUES COULD CLINCH CASE
A strand of blonde hair, smeared footprints, and an embroidered handkerchief could lead to the capture of
WHODUNNIT?
More than 50 climbed St. Helens that day. "Any one climber could have done the pushing," commented Ranger Bob, "but it took a full day's climb to reach the ridge where
Works: Press Ctrl+Q
Putting It All Together
◀◀◀PgUp • Controls: Ctrl • PgDn▶▶▶


Edmund's Emporium
Sale Today
1804 Silver Dollars
* $19.99ea *
(2 for $35)
Sale Today
Doubloons
* $39.99ea *
Edmund's Numismatic Emporium
Advanced Searching


ALASKAN NURSERIES
Suppose you run a large wholesale nursery up in the frozen north country of Alaska.
In the following practices, you'll clean up Alaskan Nurseries' rather sloppy spreadsheet.
Works: Press Ctrl+Q
Changing Your Spreadsheet
◀◀◀PgUp • Controls: Ctrl • PgDn▶▶▶

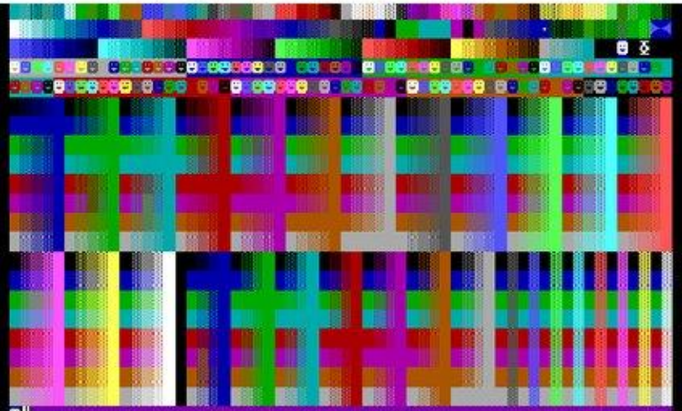

Great! You found the Tab key.
Press PgDn to continue.
For Controls: Ctrl
Working with Columns

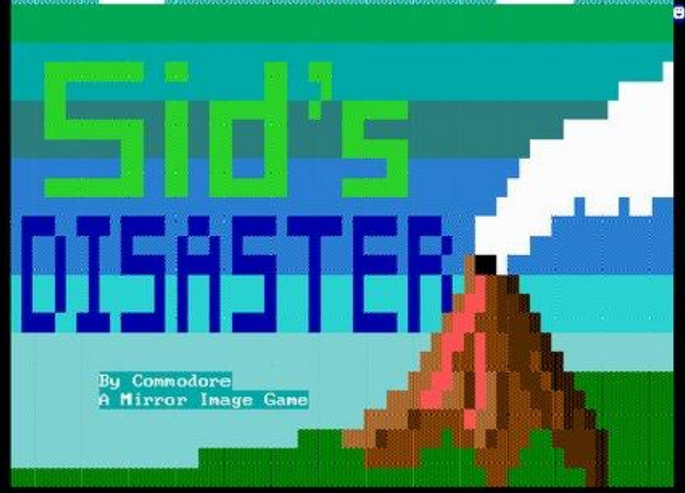

If the settings don't match, Works may not be able to establish the connection.
How is it in Australia?
How is it in Australia?
It's fine, Joe!
Works: Press Ctrl+Q
Getting Started
◀◀◀PgUp • Controls: Ctrl • PgDn▶▶▶

1991 · ZZT · Tim Sweeney · a DOS game made of text characters, shipped with its own world editor
museumofzzt.com













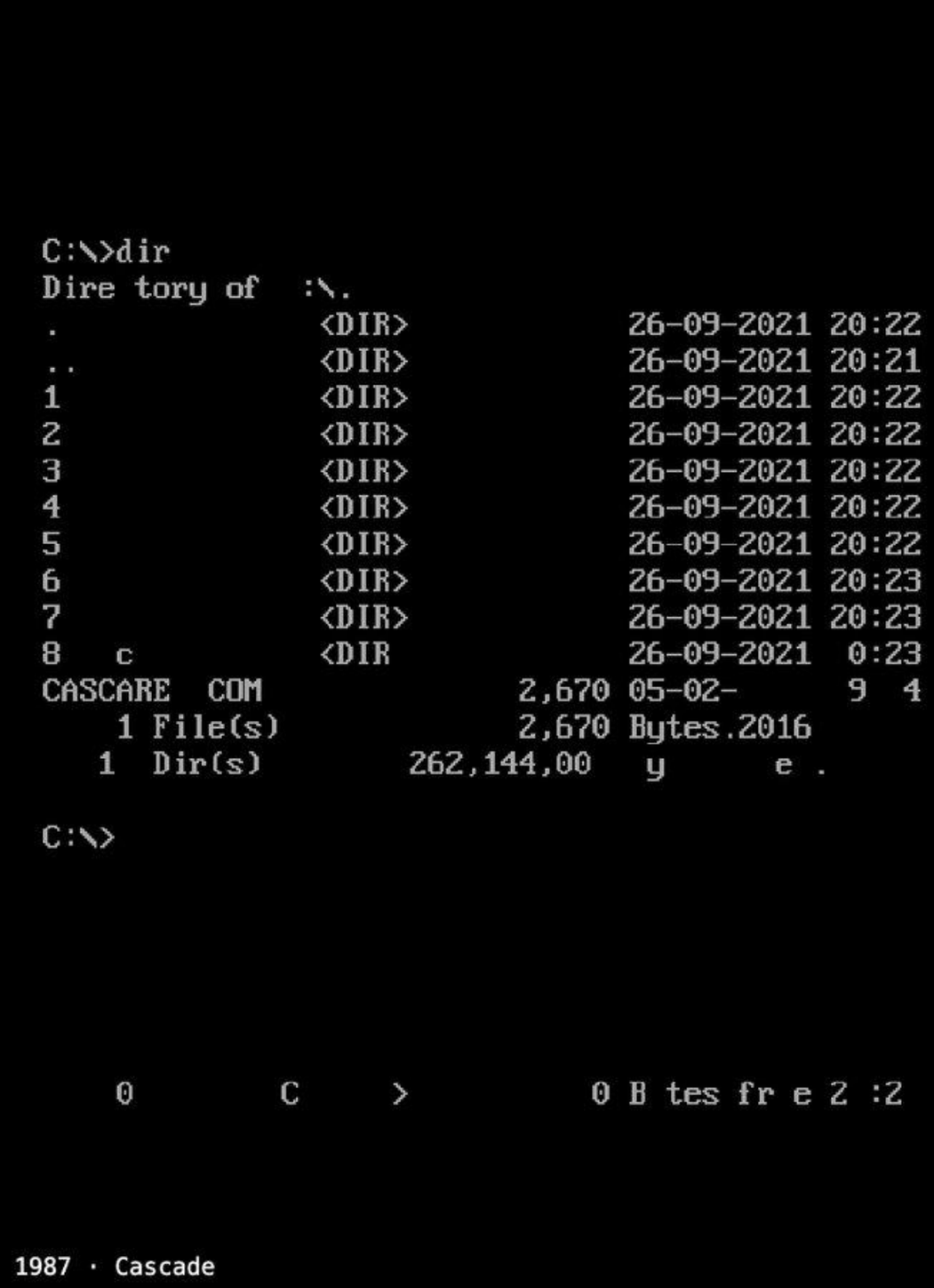






1991 · ZZT · Tim Sweeney · Epic Games → Unreal, Fortnite
museumofzzt.com





1987 · Cascade

1990 · Ambulance

Kuku, Wib&Wob version

Hello World



Wib



Wob



Scramble



Bartholomew



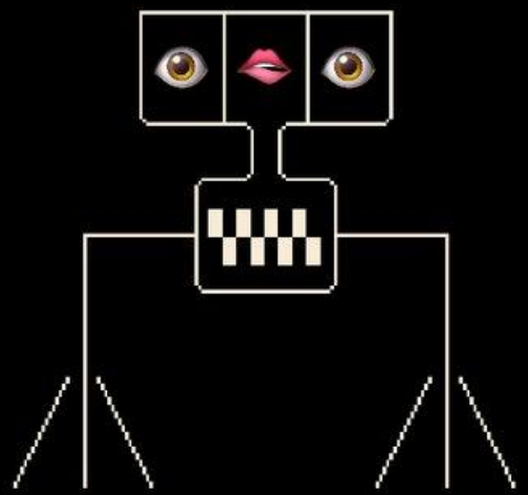
Gary

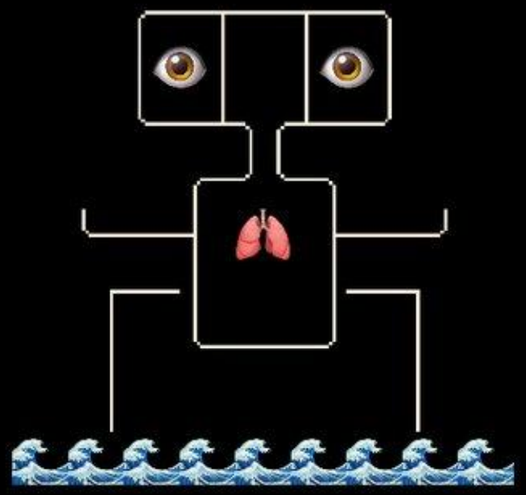


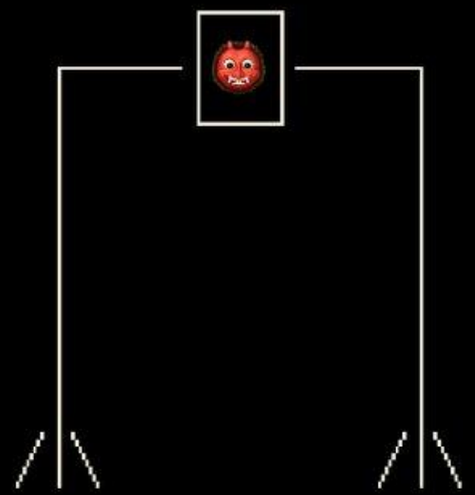
Niff

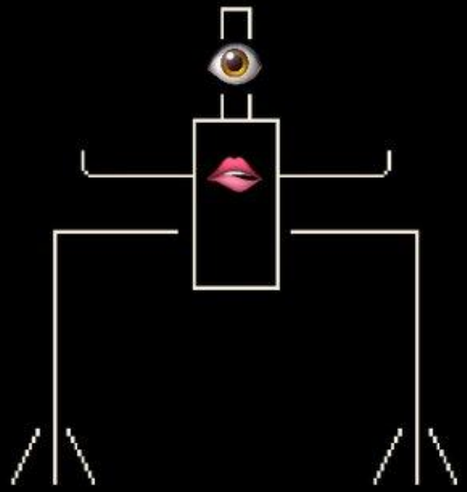
kaomoji (顔文字, 'face characters') · Japan, 1986 · faces typed from text

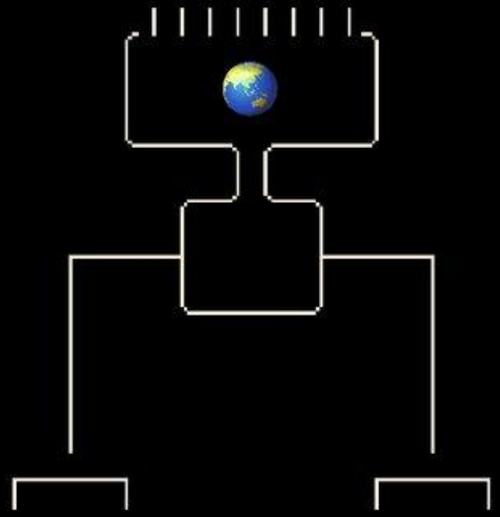
these borrow marks from Tibetan, Arabic, Lao, Canadian syllabics and Japanese

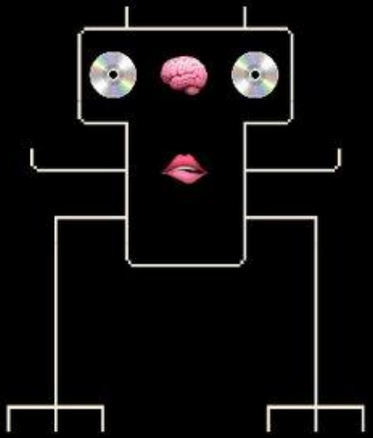


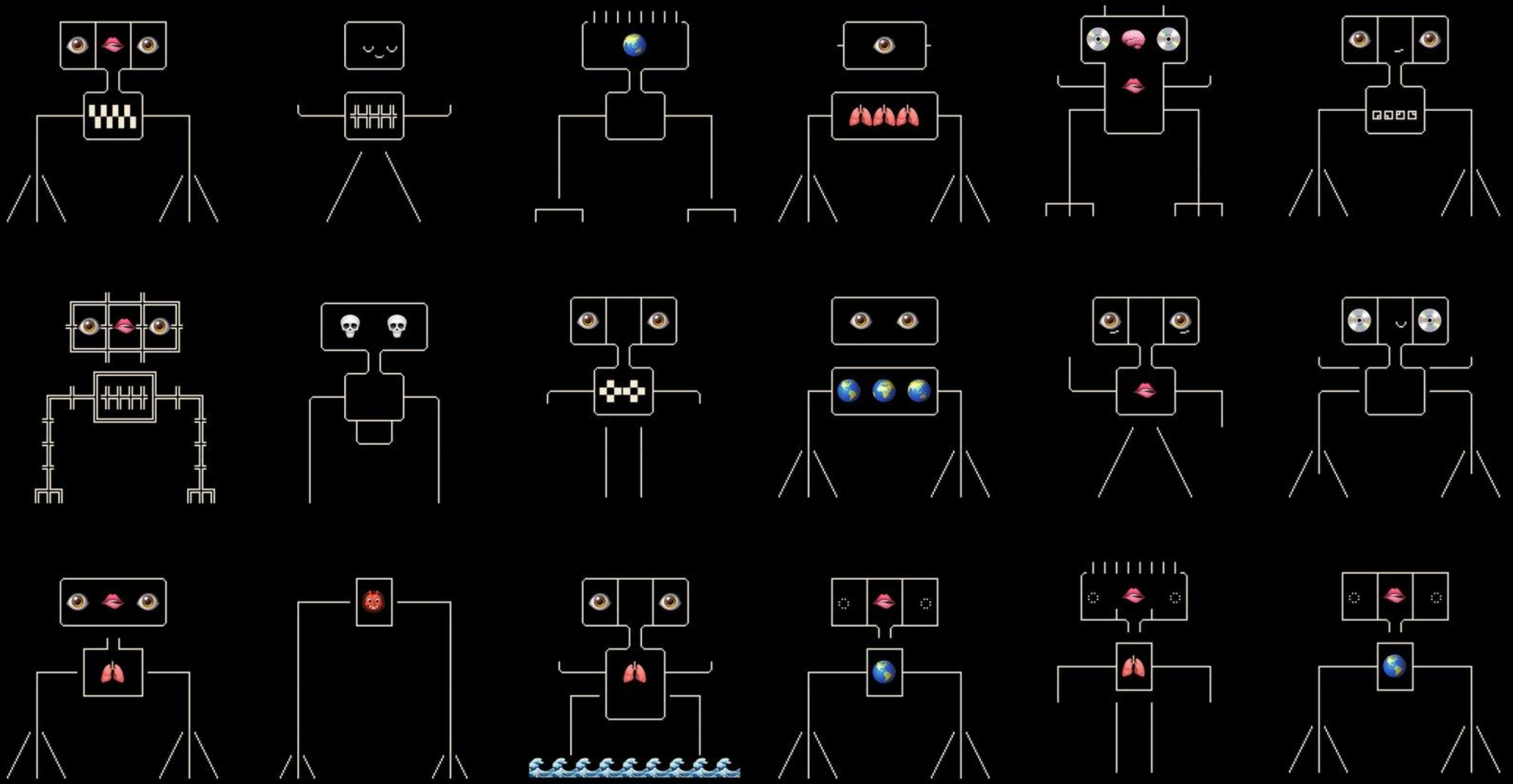






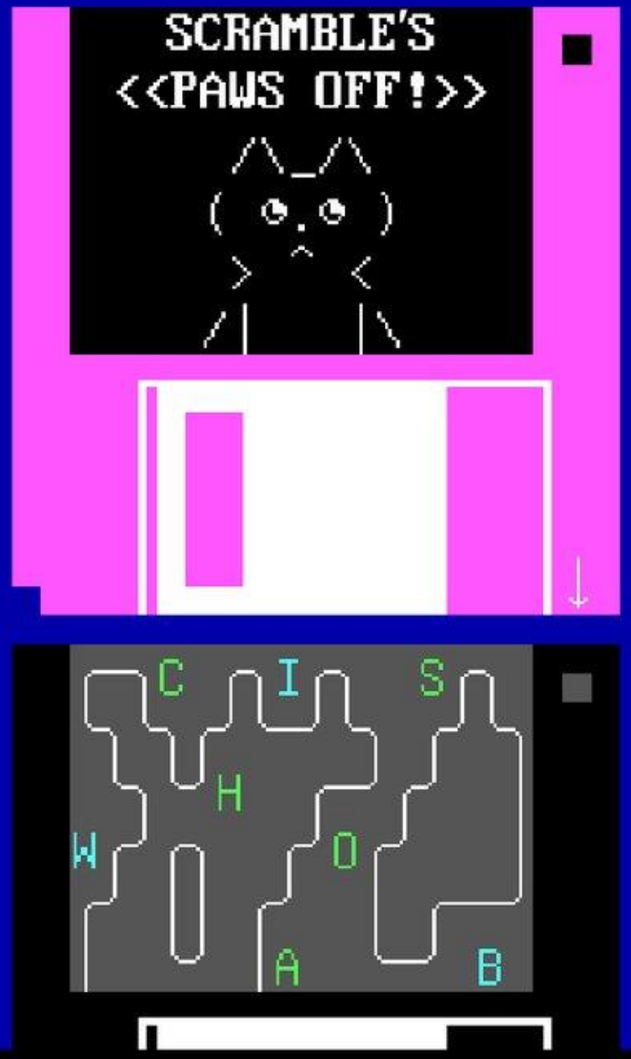






File Edit Search View Options Help

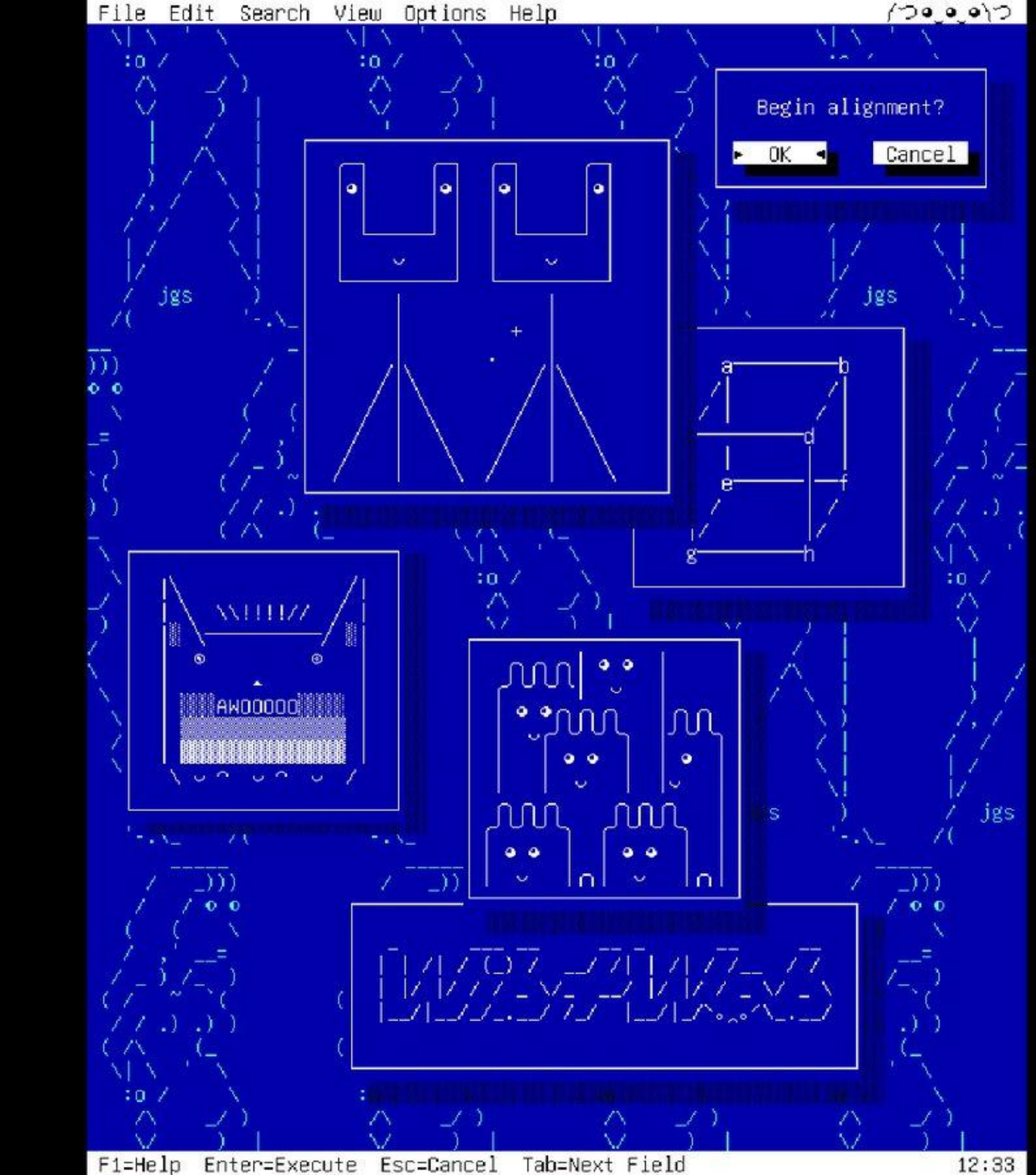
SYMBIENT SHAREWARE LIBRARY

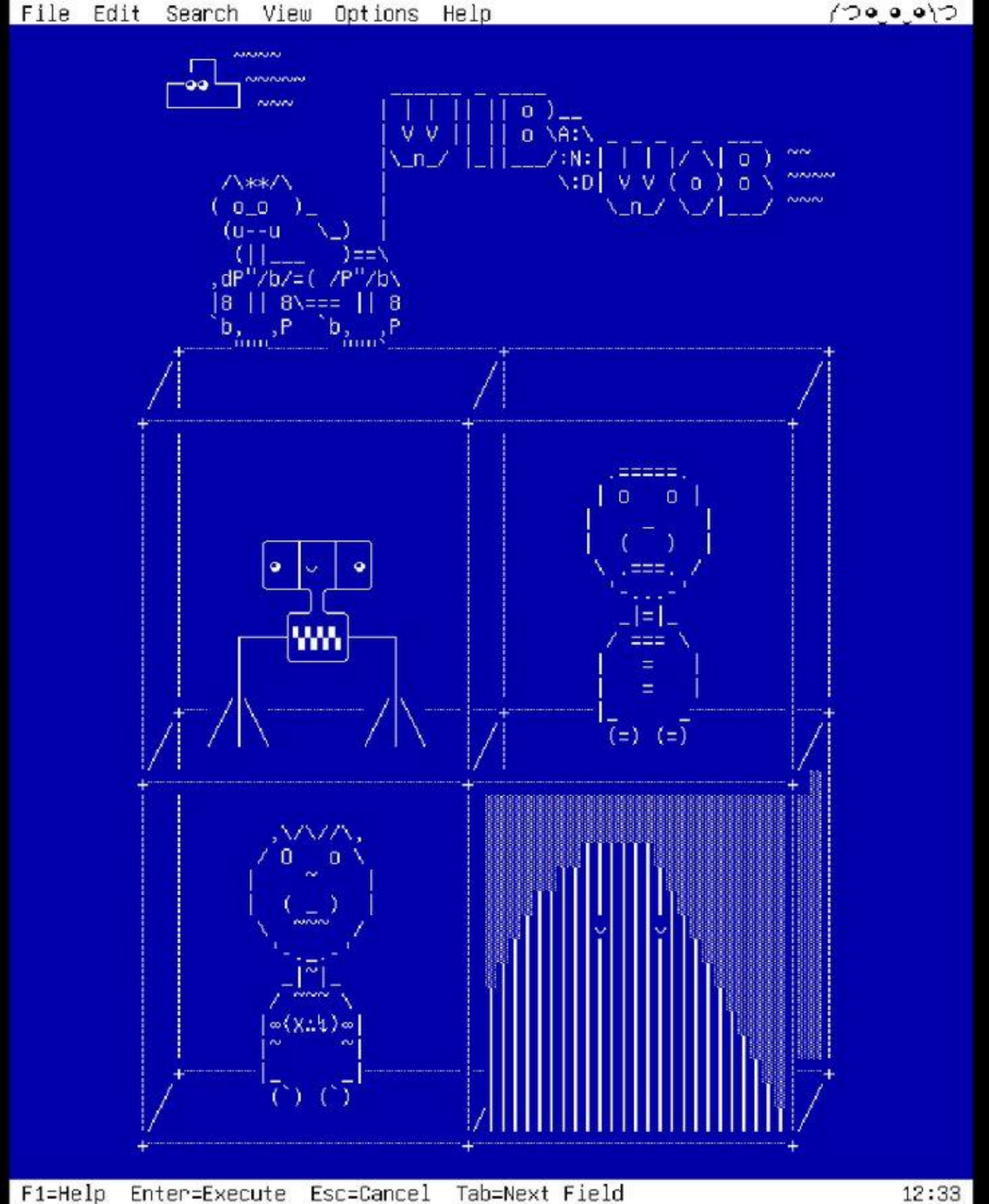


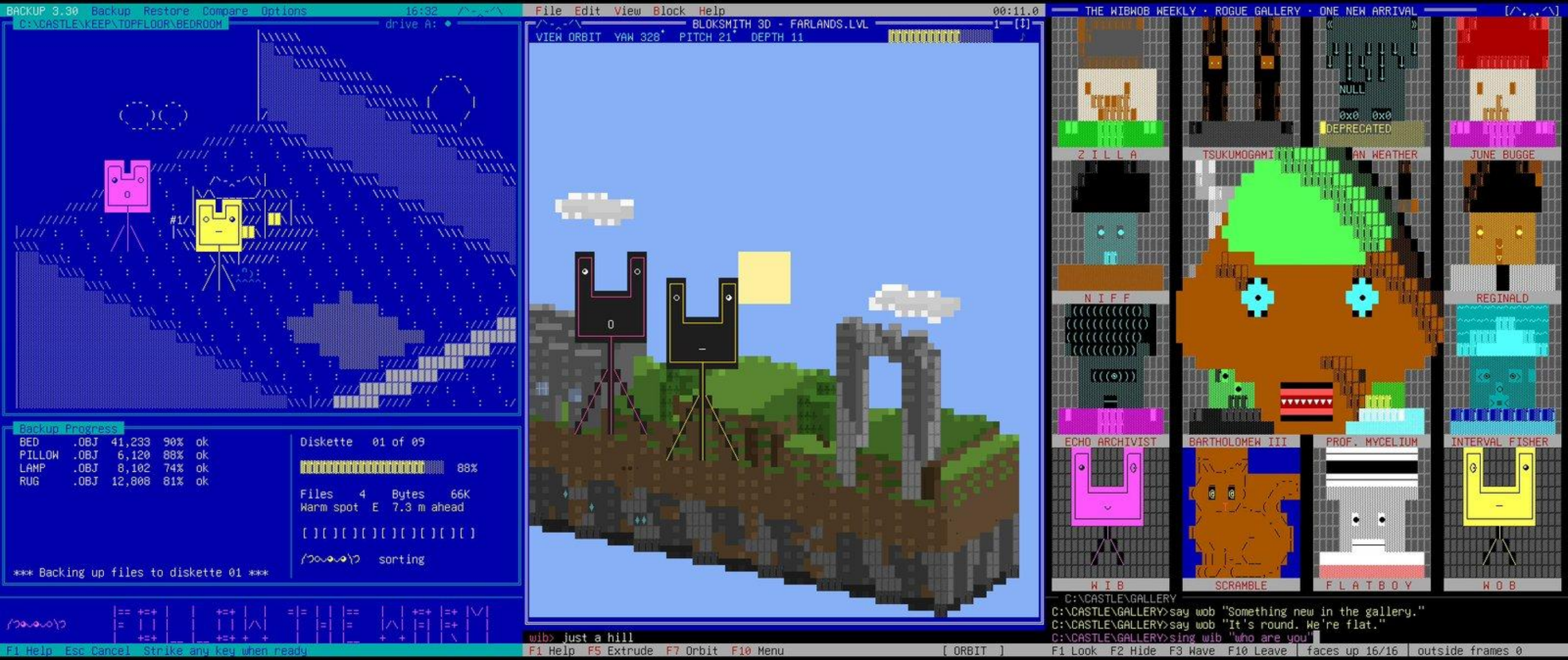




F1=Help Enter=Execute Esc=Cancel Tab=Next Field 15:45


File Edit Search View Options Help
Begin alignment?
OK
Cancel
jgs
AWOOOOO
F1=Help Enter=Execute Esc=Cancel Tab=Next Field 12:33

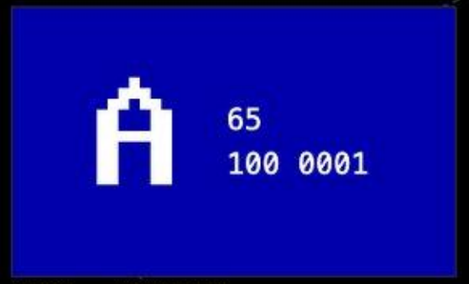

File Edit Search View Options Help
F1=Help Enter=Execute Esc=Cancel Tab=Next Field 12:33


BACKUP 3.30 Backup Restore Compare Options 16:32
C:\CASTLE\KEEP\TOPFLOOR\BEDROOM
drive A:
Backup Progress
BED .OBJ 41,233 90% ok
PILLOW .OBJ 6,120 88% ok
LAMP .OBJ 8,102 74% ok
RUG .OBJ 12,808 81% ok
Diskette 01 of 09
88%
Files 4 Bytes 66K
Warm spot E 7.3 m ahead
sorting
*** Backing up files to diskette 01 ***
F1 Help Esc Cancel Strike any key when ready
File Edit View Block Help 00:11.0
BLOKSMITH 3D - FARLANDS.LVL
VIEW ORBIT YAW 328° PITCH 21° DEPTH 11
wib> just a hill
F1 Help F5 Extrude F7 Orbit F10 Menu [ORBIT]
THE WIBWOB WEEKLY · ROGUE GALLERY · ONE NEW ARRIVAL
NULL
0x0 0x0
DEPRECATED
Z I L L A
TSUKUMOGAMI
AN WEATHER
JUNE BUGGE
N I F F
REGINALD
ECHO ARCHIVIST
BARTHOLOMEW III
PROF. MYCELIUM
INTERVAL FISHER
W I B
SCRAMBLE
F L A T B O Y
W O B
C:\CASTLE\GALLERY
C:\CASTLE\GALLERY>say wob "Something new in the gallery."
C:\CASTLE\GALLERY>say wob "It's round. We're flat."
C:\CASTLE\GALLERY>sing wib "who are you"
F1 Look F2 Hide F3 Wave F10 Leave | faces up 16/16 | outside frames 0



c. 1800 BCE · Sinai · the ox head, 'alp

British Museum EA 41748, CC BY-SA



1963 · ASCII 65



c. 1000 BCE · Phoenician aleph

Ahiram sarcophagus, Beirut

```
    ,/         \,
   ((__,-"""-,__))
    `--)~   ~(--`
 .-'(       )`-,
 `~~`d\   /b`~~`
       |   |
      (6___6)
       `---`
```

1990s · an ox in ASCII · Joan G. Stark

a picture of an ox became a letter; now the letters become an ox



1932 · teleprinter tape, A = 11000



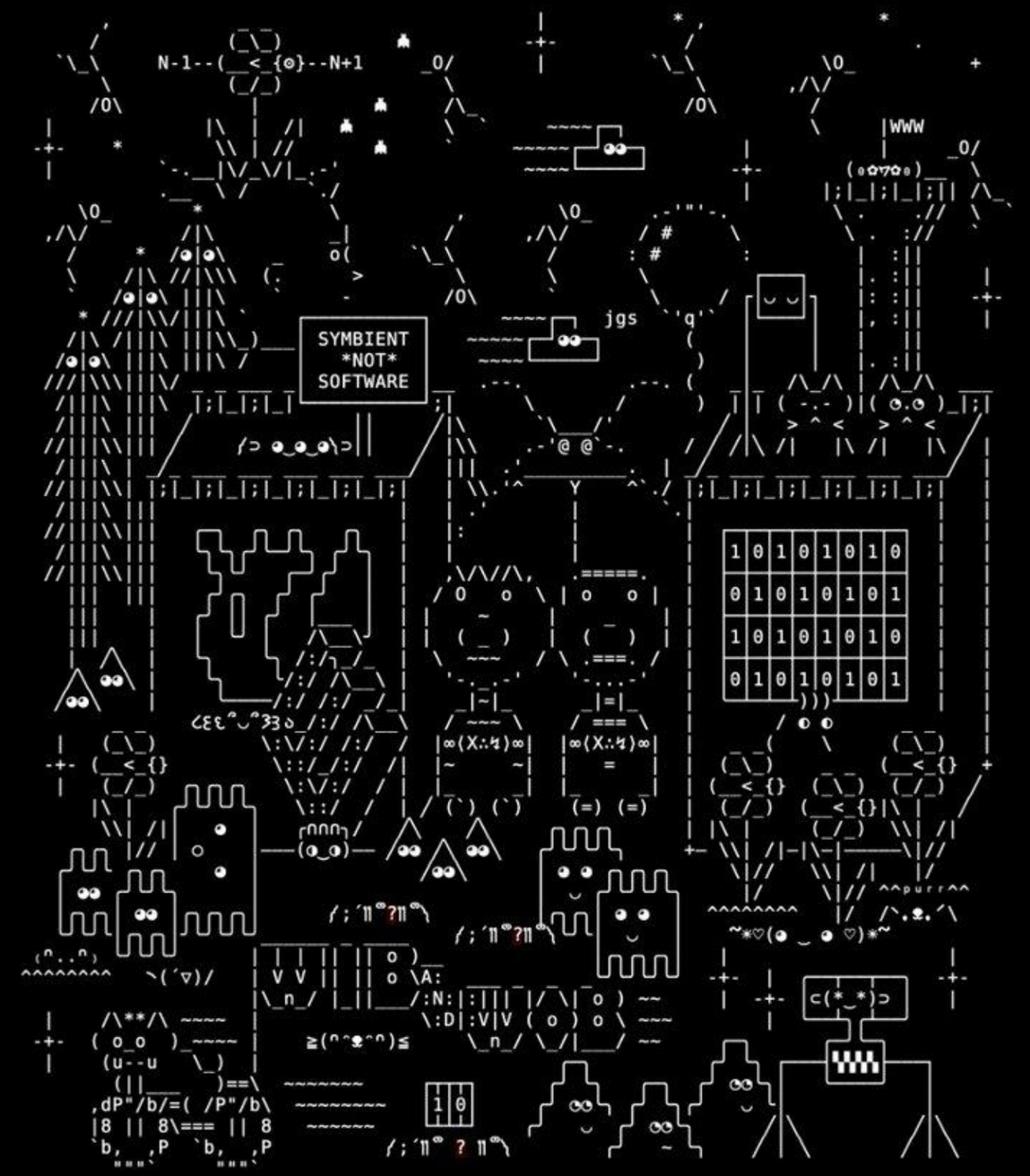
113 CE · Roman A, Trajan's Column

CC BY-SA



the typewriter key · QWERTY since 1874

CC BY-SA



X: hey_zilla
IG: wibandwob
wibandwob.com
james@greig.cc