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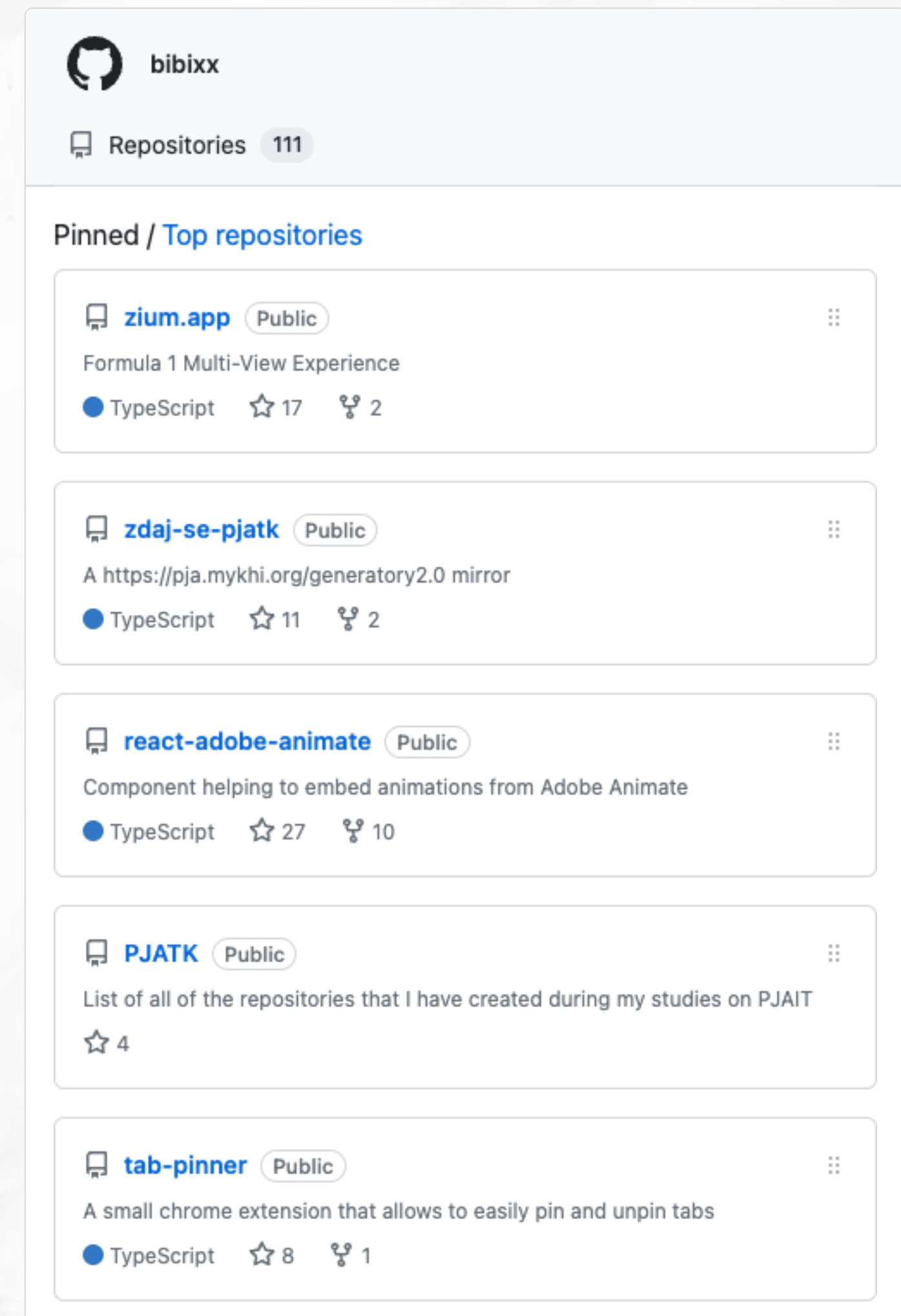
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# About me

- Senior Product Engineer building the last writing tool you'll ever need @ **Craft Docs**
- **WarsawJS** community member since 2016
- Programming for 10+ years
- Game jamer @ **bbear.dev**
- Open source enjoyer (100+ public repos)



# History

**1950s & 1960s**

# 6502 HEX MONITOR LISTING

FF00	D8	RESET	CLD	Clear decimal arithmetic mode.
FF01	58		CLI	
FF02	A0 7F		LDY #\$7F	Mask for DSP para direction register.
FF04	8C 12 D0		STY DSP	Set it up.
FF07	A9 A7		LDA #\$A7	KBD and DSP control register mask.
FF09	8D 11 D0		STA KBD CR	Enable interrupts, set CA1. CBI, for
FF0C	8D 13 D0		STA DSP CR	positive edge sense/output mode.
FF0F	C9 DF	NOTCR	CMP #\$DF	"←"?
FF11	F0 13		BEQ BACKSPACE	Yes.
FF13	C9 9B		CMP #\$9B	ESC?
FF15	F0 03		BEQ ESCAPE	Yes.
FF17	C8		INY	Advance text index.
FF18	10 0F		BPL NEXTCHAR	Auto ESC if > 127.
FF1A	A9 DC	ESCAPE	LDA #\$DC	"\",
FF1C	20 EF FF		JSR ECHO	Output it.
FF1F	A9 8D	GETLINE	LDA #\$8D	CR.
FF21	20 EF FF		JSR ECHO	Output it.
FF24	A0 01		LDY #S01	Initialize text index.
FF26	88	BACKSPACE	DEY	Backup text index.
FF27	30 F6		BMI GETLINE	Beyond start of line, reinitialize.
FF29	A0 11 D0	NEXTCHAR	LDA KBD CR	Key ready?

# **AT&T and Unix**



1710 DATA 207a61776172746f7363e6  
 1720 DATA 206479736b75206e9b50af  
 1730 DATA 6c696b2077656a73636994  
 1740 DATA 6f7779203a11009b506cb5  
 1750 DATA 696b2077796a7363696fb1  
 1760 DATA 7779203a18009b4b6f70d8  
 1770 DATA 696f77616e6965207a61bf  
 1780 DATA 6b6f6e637a6f6e65209be1  
 1790 DATA 06019b7d202020202020c0  
 1800 DATA 4b6f706961726b61204456  
 1810 DATA 59534b3c3e545552424f53  
 1820 DATA 544150459b9b2070726f24  
 1830 DATA 6772616d206f7072616300  
 1840 DATA 6f77616e792070727a650f  
 1850 DATA 7a9b202020202020202024  
 1860 DATA 20202020202020576f6a34  
 1870 DATA 636965636861205a6162ce  
 1880 DATA 6f6c6f746e65676f9b9b6b  
 1890 DATA 2020202020776572736a36  
 1900 DATA 6120322e36202050494167  
 1910 DATA 53544f57202031393838ce  
 1920 DATA 9b9b5557414741202121db  
 1930 DATA 212041627920756e696b0f  
 1940 DATA 6e6163206b6f6c697a6af4  
 1950 DATA 69207a65207374612d9b8c  
 1960 DATA 636a61206479736b6f777b  
 1970 DATA 206964656e747966696b62  
 1980 DATA 61746f72656d206d61673f  
 1990 DATA 6e65746f666f2d9b6e7575  
 2000 DATA 20545552424f206a657383  
 2010 DATA 7420543a2061206e696582  
 2020 DATA 20443a206a616b2077202d  
 2030 DATA 7379732d9b74656d696568  
 2040 DATA 204b2e532e4f2e205455c8  
 2050 DATA 52424f9b48a220a90b9da1  
 2060 DATA 4203a9009d48039d490360  
 2070 DATA 682056e460a210a9079d81  
 2080 DATA 4203a9009d48039d490340  
 2090 DATA 2056e460a001b1868d4dac  
 2100 DATA 27204025a903a2109d4295  
 2110 DATA 03a94c9d4403a9279d4523  
 2120 DATA 03a9069d4a03a9009d4b50  
 2130 DATA 032056e4301aa907a21059  
 2140 DATA 9d4203a9009d48039d49b2  
 2150 DATA 032056e4300620b0f24c53  
 2160 DATA 2827c088d0034cbe244c37  
 2170 DATA 2b25444d3a2a2e2a00e0b4  
 2180 DATA 02e102ae246b

1840 DATA 0c4cee0ca920a00e2025da  
 1850 DATA 0ca951a00d20250ca9ff86  
 1860 DATA 8dfc0220fd2295fa00850  
 1870 DATA d99f0ef0058810f830b43f  
 1880 DATA 980aa8b9a90e48b9a80eb0  
 1890 DATA 48603800cbe1f3e5f4eff7  
 1900 DATA f7f9a0f3f9f3f4e5eda0cc  
 1910 DATA eff0e5f2e1e3f9eaeef910  
 1920 DATA a0d7dae1e2a0b2d4b0b6b0  
 1930 DATA 9b9b202020202020205016  
 1940 DATA 727a657277793a20202063  
 1950 DATA cd009b9b7f7fa0cda0c536  
 1960 DATA a0cea0d5a09b9b0cc2d4c34  
 1970 DATA 61646f77616e696520700c  
 1980 DATA 6c696b7520d22d4c6164f1  
 1990 DATA 6f77616e69652069207390  
 2000 DATA 746172749bd32d5374610e  
 2010 DATA 72742070726f6772616d0c  
 2020 DATA 7520201b9d2d5a696d6e44  
 2030 DATA 792073746172749bcb2d9e  
 2040 DATA 4b726f746b696520707279  
 2050 DATA 7ab572777920c42d446c7b  
 2060 DATA 756769652070727a657278  
 2070 DATA 77799bc52d5572756368fc  
 2080 DATA 6f6d69656e696520202042  
 2090 DATA 20c82d5a6174727a796d58  
 2100 DATA 616e69659b202073696c18  
 2110 DATA 6e696b612020202020207b  
 2120 DATA 202020202073696c6e693a  
 2130 DATA 6b619bc32d506f77726fa8  
 2140 DATA 742064ef2063617274724b  
 2150 DATA 6964676527619b06004451  
 2160 DATA 4c5547494507004b524fba  
 2170 DATA 544b494515009b7fffd5a6d  
 2180 DATA 6c7920666f726d6174201b  
 2190 DATA 706c696b75202114009b30  
 2200 DATA 7fffd426c61642074726186  
 2210 DATA 6e736d69736a693a2021fe  
 2220 DATA 009b202020202020a0cec7  
 2230 DATA e1e3e9f3ee9e9a0e4ef9b  
 2240 DATA f7efecce9a0b0bec1f7a3  
 2250 DATA e9f3faa01c009b20202030  
 2260 DATA 2020202020506fe4616abe  
 1670 DATA 009bdfdffd2020202020a4  
 1680 DATA 20426c6164207472616e0c  
 1690 DATA 736d69736a693a202d0022  
 1700 DATA 9b2a6e20706f64616a65e8

770 DATA 3c8d02d378bae8e88ec18e  
 780 DATA 086000a90c850ba9bf8528  
 790 DATA 0aa91a850f8de802a9fca5  
 800 DATA 850e8de702a9808d280a96  
 810 DATA a244a90aa01b4c86e4a949  
 820 DATA 31a00e20250ca210a90ce0  
 830 DATA 9d420320c8094cb00c18d3  
 840 DATA 9001386648207e0ca20399  
 850 DATA a9009de002ca10faa21047  
 860 DATA a9039d4203a9209d440382  
 870 DATA a90b9d4503a9049d4a03b2  
 880 DATA ad280a9d4b0320c809208d  
 890 DATA 980990b5209809b0fba988  
 900 DATA 079d4203a90a9d4503a9b2  
 910 DATA 199d4403a9029d4803a9eb  
 920 DATA 009d490320c809386e1681  
 930 DATA 0aad170a9d4403ad180a0c  
 940 DATA 9d450338ad190aed170a07  
 950 DATA 9d4803ad1a0aed180a9d6c  
 960 DATA 4903fe4803d003fe49031e  
 970 DATA 20c809ade202d005ade305  
 980 DATA 02f00b20130aa9008de257  
 990 DATA 028de3024c3109186e16ed  
 1000 DATA 0aa210a9079d4203a90aee  
 1010 DATA 9d4503a9179d4403a90222  
 1020 DATA 9d4803a9009d490320c884  
 1030 DATA 09ad170a2d180ac9fff062  
 1040 DATA 02186038602056e4983096  
 1050 DATA 016048a90c9d420320564c  
 1060 DATA e4622c160a3024c988d059  
 1670 DATA b1cb9d4803c8b1cb9d4978  
 1680 DATA 03a90b9d42034c56e4851c  
 1690 DATA d484d520aad920e6d8a973  
 1700 DATA 0085cd00520b0f2e6cd2f  
 1710 DATA a4cdb9800510f4498020cb  
 1720 DATA b0f24c770ca92020b0f2c7  
 1730 DATA e6cda906c5cdd0f360a987  
 1740 DATA 81a00e20250ca200a90557  
 1750 DATA 9d4203a90b9d4503a9209b  
 1760 DATA 9d4403a90e9d4803a900c7  
 1770 DATA 9d49032056e41004c08967  
 1780 DATA d016bc480388f01060a9e5  
 1790 DATA 5ea00e20250ca9ff8dfc73  
 1800 DATA 0220fd2a2ff9aa90185ee  
 1810 DATA 09a900852ba90c852a20d4  
 1820 DATA 8ee9a917a00d20250cadbc  
 1830 DATA 280a100aa928a00e2025cc

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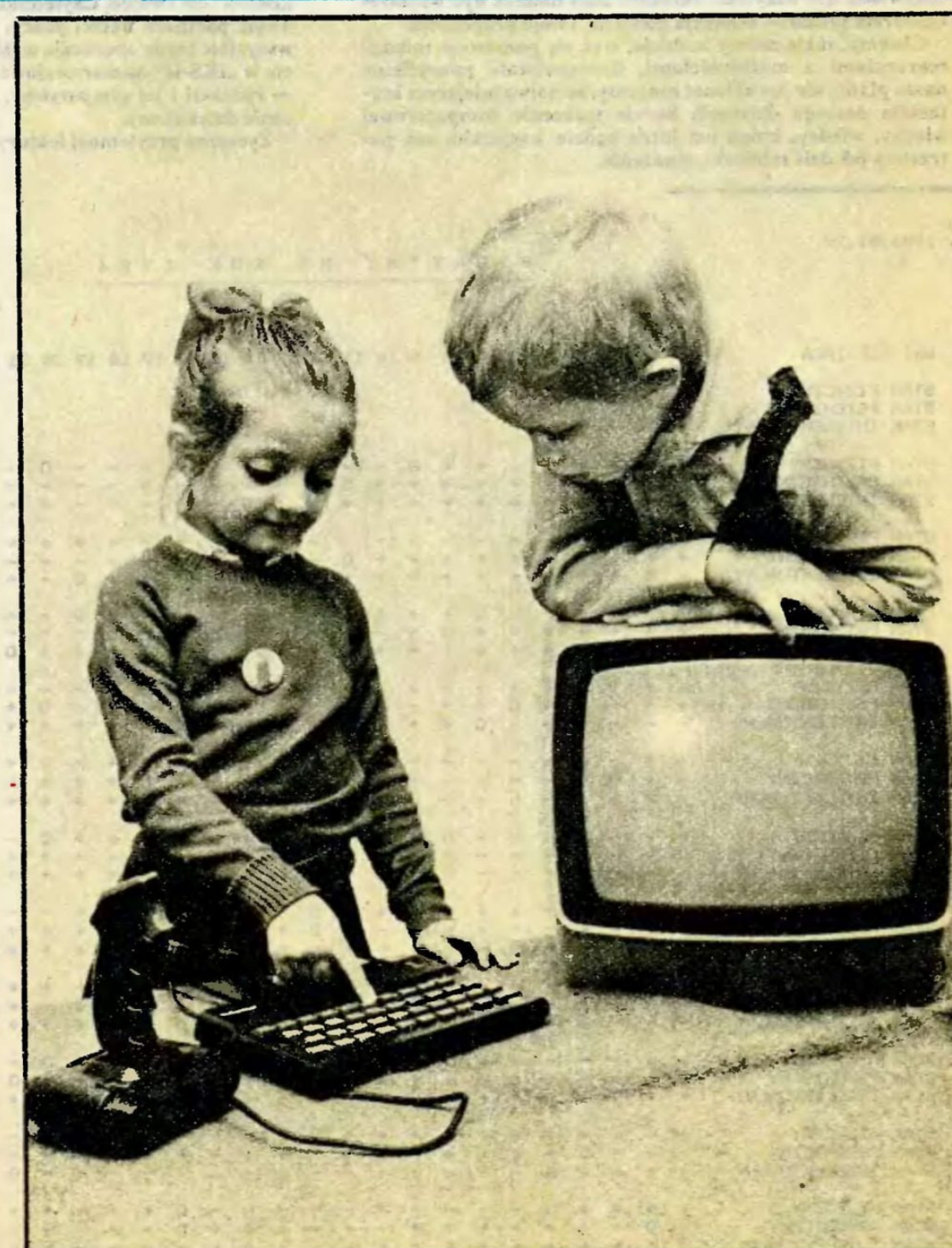


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W numerze:

- Świat minikomputerów z bliska
- Cztery programy w BASIC-u na SPECTRUM
- Komputer dla kolekcjonerów
- Liga Myślących
- „Iks” pomaga w poznaniu komputera





# **Richard Stallman**





**Free Software Foundation**

**GNU Compiler Collection (GCC)**

**GNU Emacs**

**GNU/Linux**

# What 's GNU? Gnu's Not Unix!

GNU, which stands for Gnu's Not Unix, is the name for the complete Unix-compatible software system which I am writing so that I can give it away free to everyone who can use it. Several other volunteers are helping me. Contributions of time, money, programs and equipment are greatly needed.

So far we have an Emacs text editor with Lisp for writing editor commands, a source level debugger, a yacc-compatible parser generator, a linker, and around 35 utilities. A shell (command interpreter) is nearly completed. A new portable optimizing C compiler has compiled itself and may be released this year. An initial kernel exists but many more features are needed to emulate Unix. When the kernel and compiler are finished, it will be possible to distribute a GNU system suitable for program development. We will use TeX as our text formatter, but an nroff is being worked on. We will use the free, portable X Window System as well. After this we will add a portable Common Lisp, an Empire game, a spreadsheet, and hundreds of other things, plus online documentation. We hope to supply, eventually, everything useful that normally comes with a Unix system, and more.

GNU will be able to run Unix programs, but will not be identical to Unix. We will make all improvements that are convenient, based on our experience with other operating systems. In particular, we plan to have longer file names, file version numbers, a crashproof file system, file name completion perhaps, terminal-independent display support, and perhaps eventually a Lisp-based window system through which several Lisp programs and ordinary Unix programs can share a screen. Both C and Lisp will be available as system programming languages. We will try to support UUCP, MIT

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**It depends**



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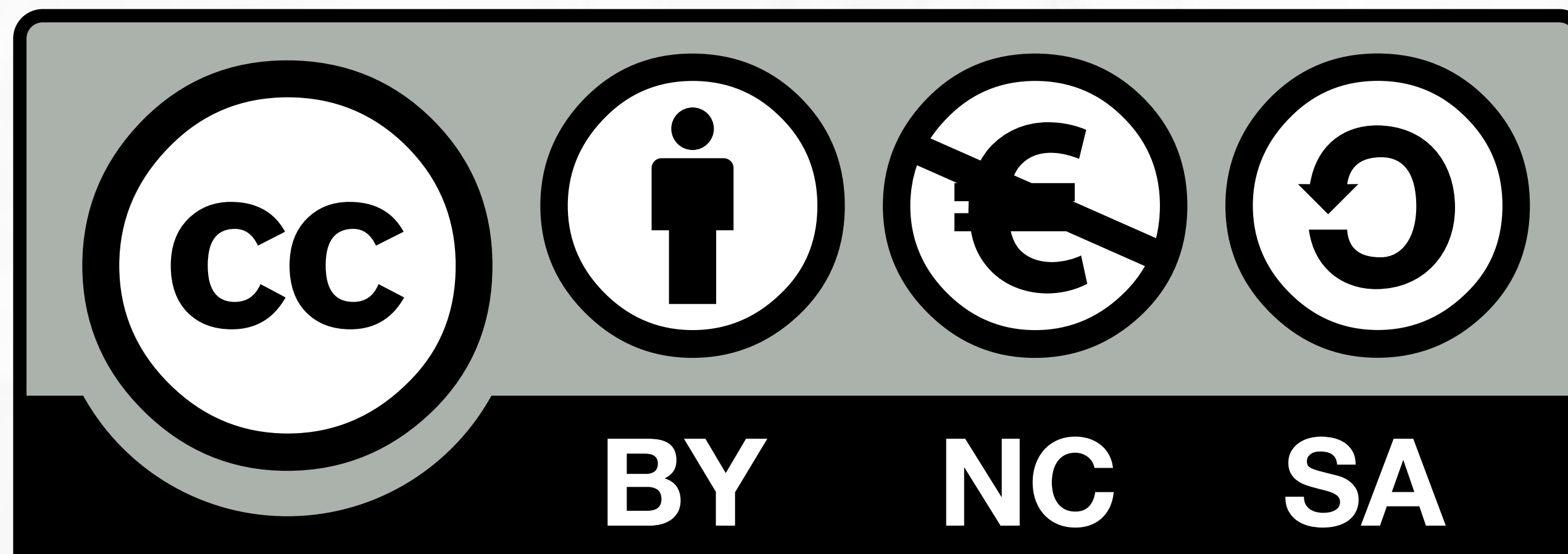
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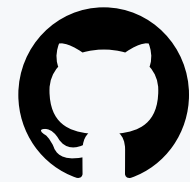
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* this stuff is worth it, you can buy me a beer in return [fullname]  
* -----  
*/
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