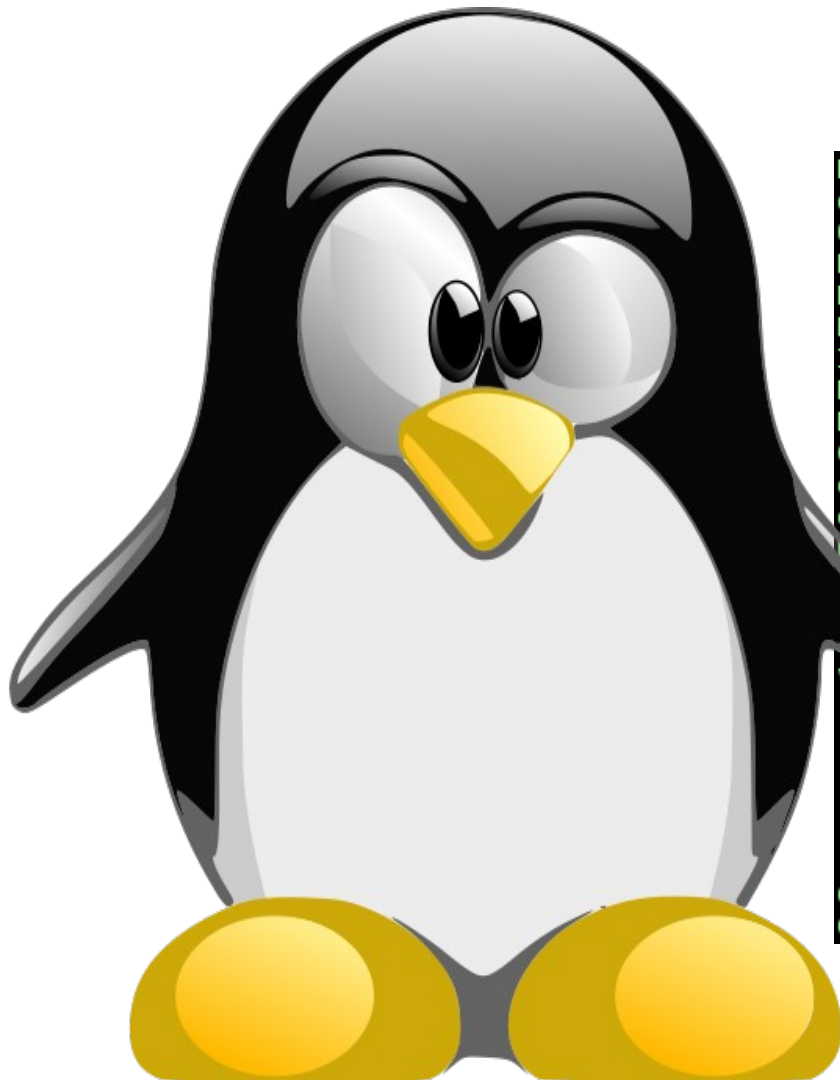# Tools

- Linux
- The terminal (or console)
- irssi
- git
- Emacs
- C
- gcc
- LaTeX

Linux

```
Kernel command line: block2mtd.block2mtd=/dev/hda2,131072,rootfs root=/dev/mtdbl
ock0 rootfstype=jffs2 init=/etc/preinit  noinitrd console=tty0 console=ttyS0,384
00n8 reboot=bios
Found and enabled local APIC!
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Initializing CPU#0
PID hash table entries: 32 (order: 5, 128 bytes)
Detected 1991.657 MHz processor.
Console: colour VGA+ 80x25
console [tty0] enabled
console [ttyS0] enabled
Dentry cache hash table entries: 1024 (order: 0, 4096 bytes)
Inode-cache hash table entries: 1024 (order: 0, 4096 bytes)
Memory: 5112k/8128k available (1497k kernel code, 2624k reserved, 597k data, 196
k, 0k highmem)
Virtual kernel memory layout:
    fixmap  : 0xfffb9000 - 0xfffff000   ( 280 kB)
    vmalloc : 0xc1000000 - 0xfffb7000   (1007 MB)
    lowmem  : 0xc0000000 - 0xc07f0000   (   7 MB)
      .init : 0xc0313000 - 0xc0344000   ( 196 kB)
      .data : 0xc027653c - 0xc030bcfc   ( 597 kB)
      .text : 0xc0100000 - 0xc027653c   (1497 kB)
Checking if this processor honours the WP bit even in supervisor mode...Ok.
Calibrating delay using timer specific routine.. 4047.64 BogoMIPS (lpj=20238210)
```
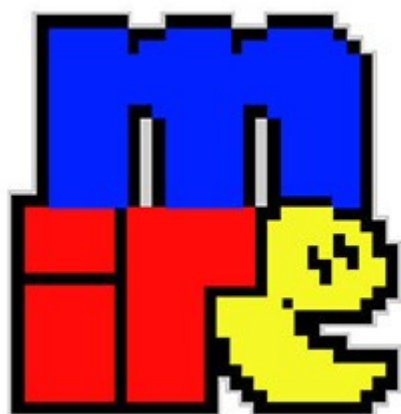
This is how you code...

2

The DEC VT100 terminal

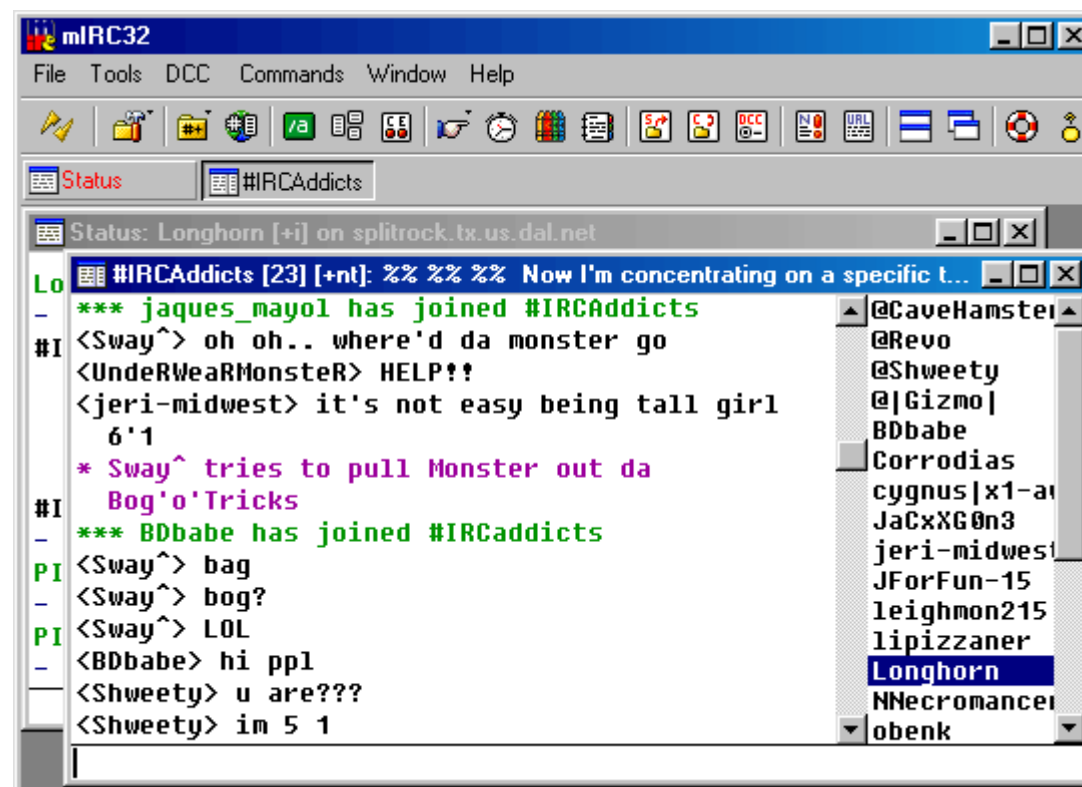video terminal, introduced in August 1978 by Digital Equipment Corporation (DEC) – Wikipedia

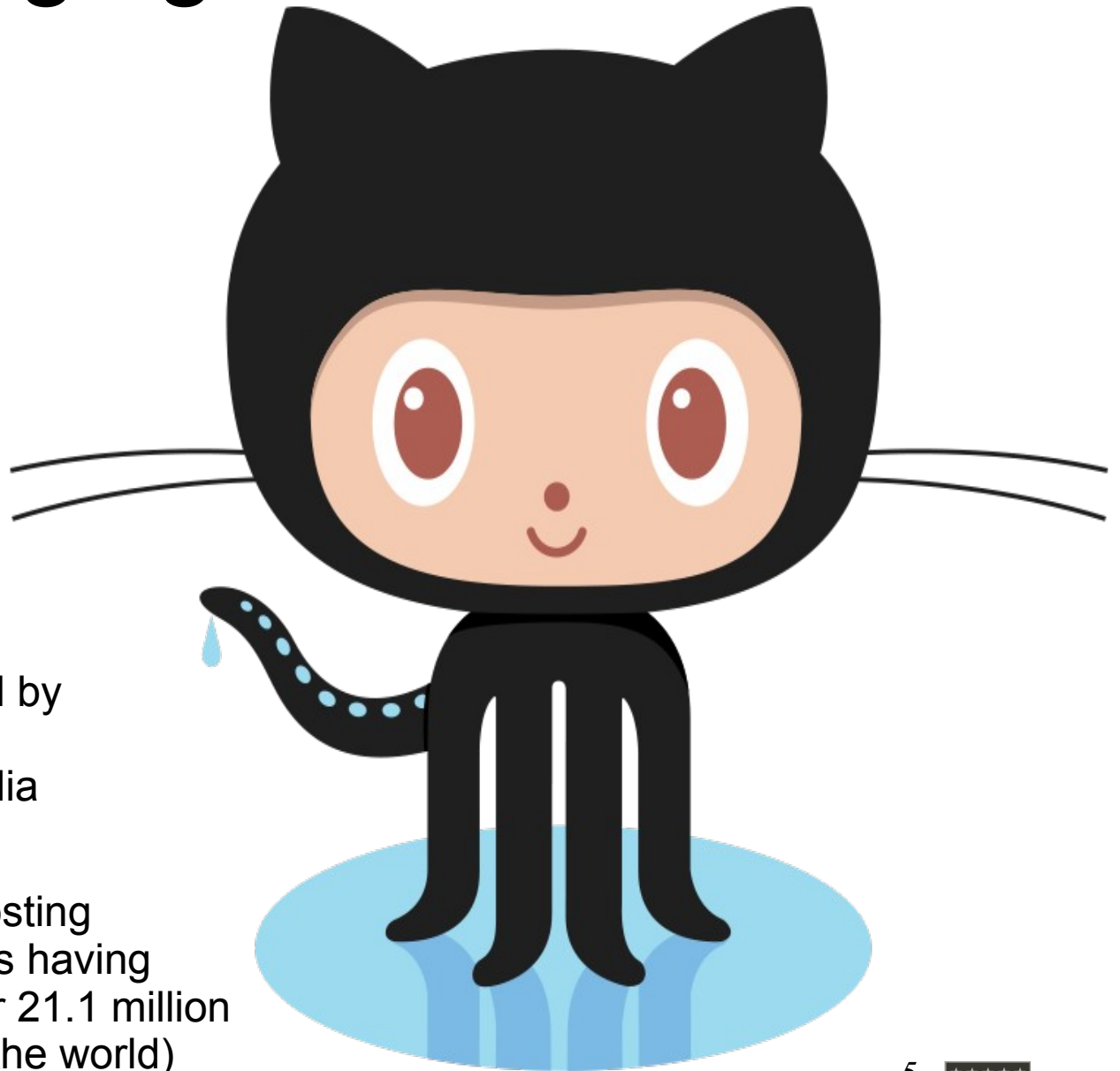# irssi

1990s... mostly

4

git/github

Initially designed and developed by Linus Torvalds for Linux kernel development in 2005 – Wikipedia

Web-based Git repository hosting service, 2015, GitHub reports having over 9 million users and over 21.1 million repositories (largest repo in the world) – Wikipedia

5

Emacs!

GNU Emacs, describes it as "the extensible, customizable, self-documenting, real-time display editor", since the 70s!!!

C
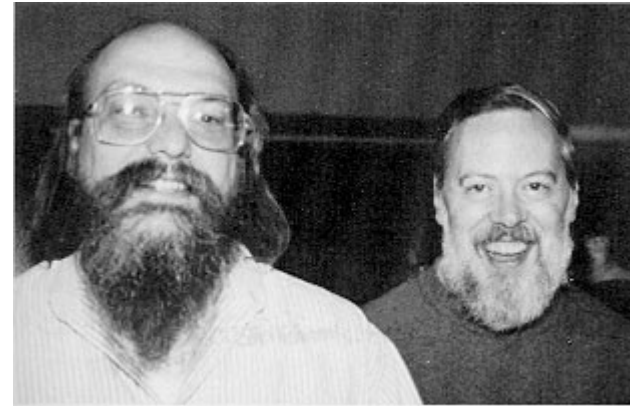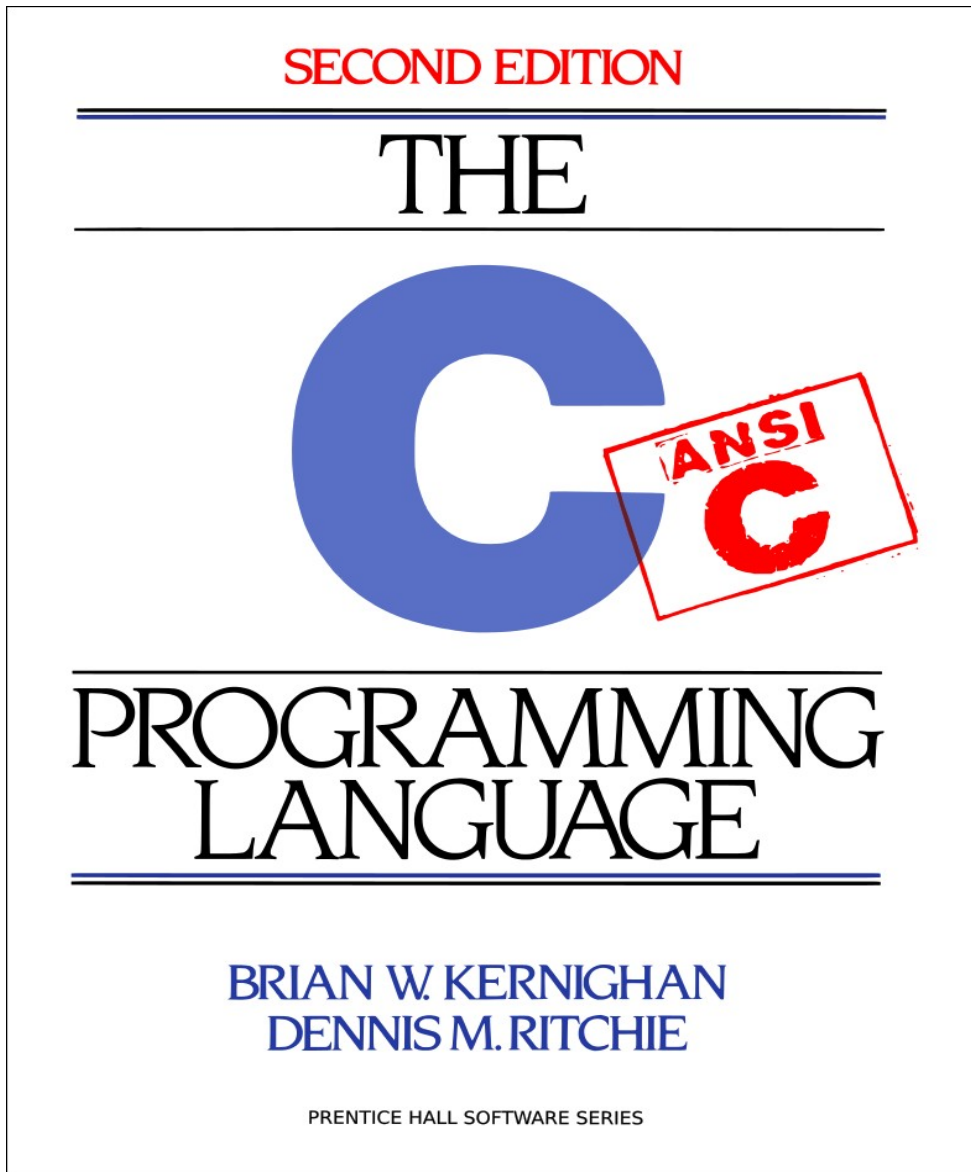
C was originally developed by Dennis Ritchie between 1969 and 1973

```c
#include <stdio.h>

main()

{
    printf("hello, world\n");
}
```
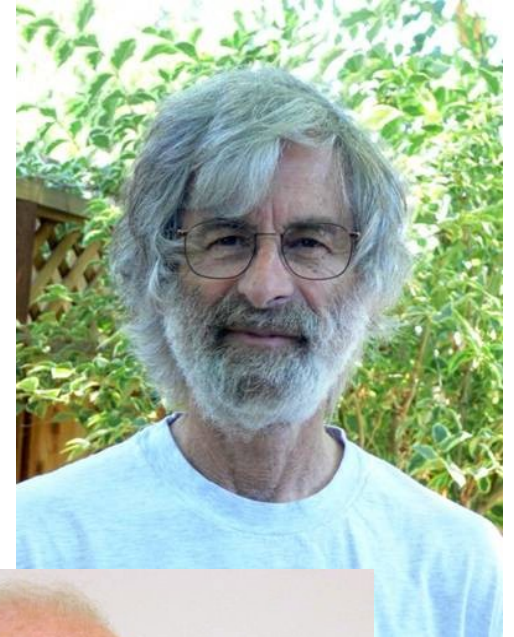
"Errors" aside... :)

gcc

GNU C Compiler, when it only handled the C programming language, GCC 1.0 was released in 1987

LaTeX

A document markup language, LaTeX was originally written in the early 1980s, released in 1984 by Leslie Lamport at SRI International, using D Knuth TeX language, released in 1978.