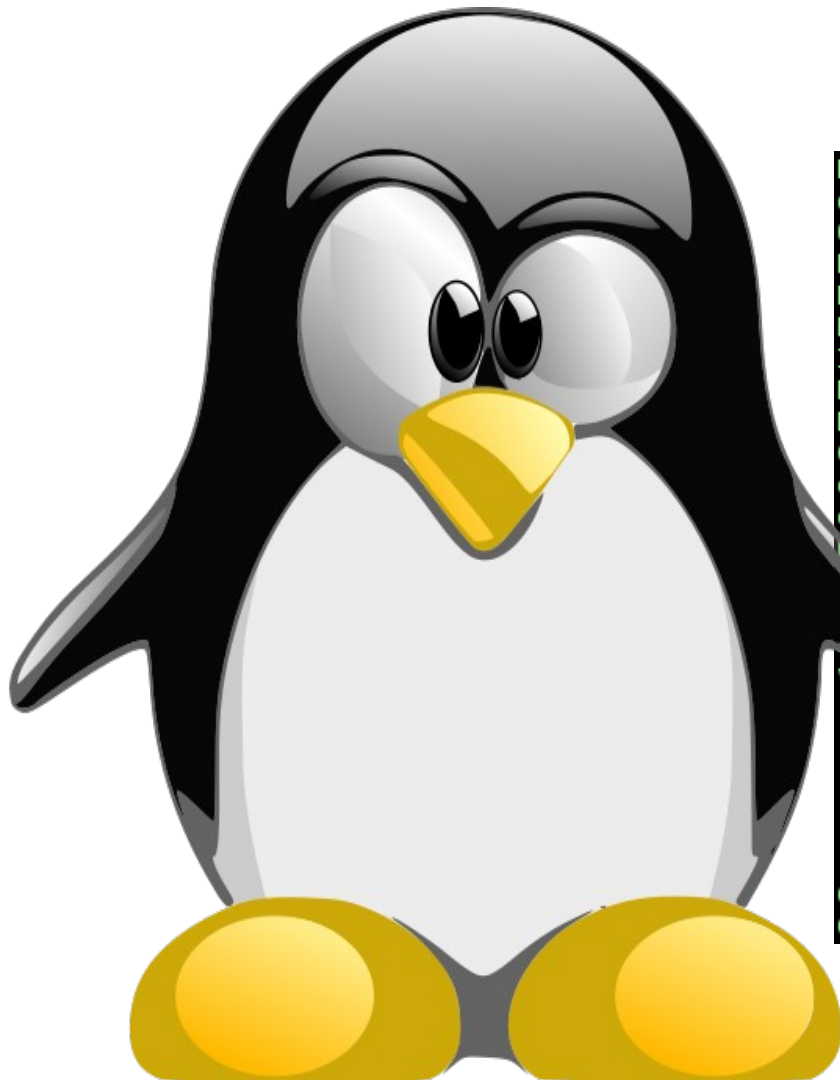


Tools

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



Linux



```
Kernel command line: block2mtd.block2mtd=/dev/hda2,131072,rootfs root=/dev/mtdblk0 rootfstype=jffs2 init=/etc/preinit noinitrd console=tty0 console=ttyS0,38400n8 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, 196k bss, 0k highmem)
Virtual kernel memory layout:
fixmap : 0xffffb9000 - 0xfffff000 ( 280 kB)
vmalloc : 0xc1000000 - 0xffffb7000 (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...



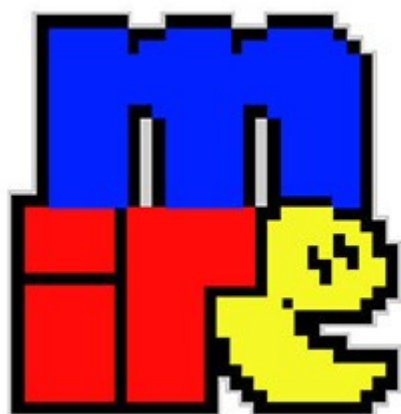
The DEC VT100 terminal



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

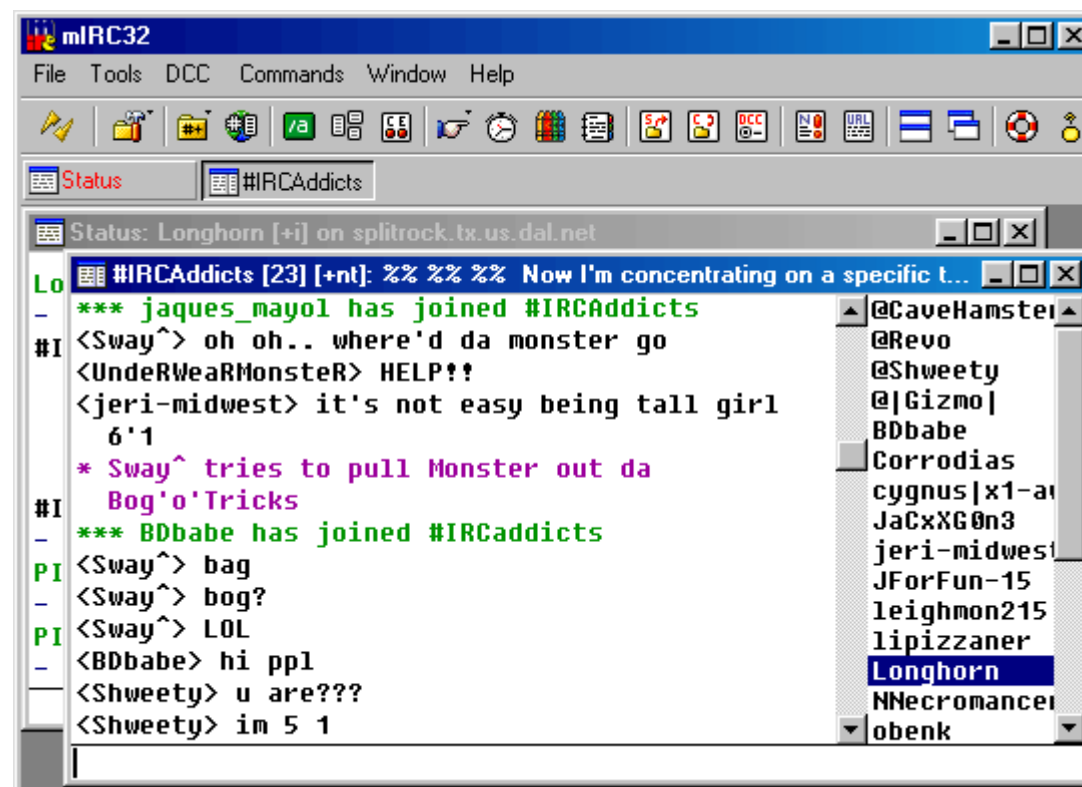


irssi



mIRC

1990s... mostly

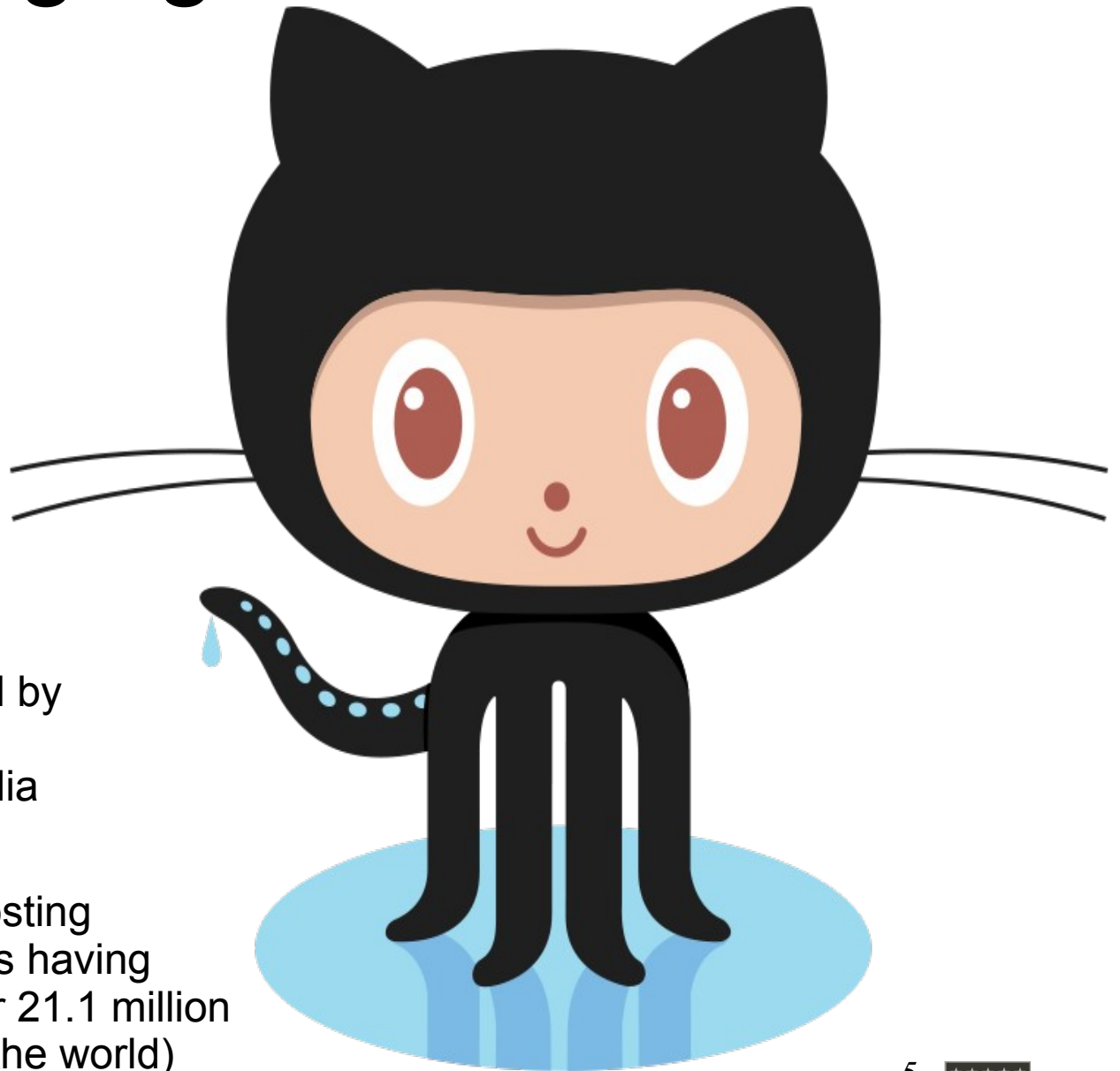


git/github



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



Emacs!

A screenshot of the Emacs text editor window. The title bar reads "emacs@andi-netbook". The menu bar includes "File", "Edit", "Options", "Buffers", "Tools", "C", and "Help". The toolbar contains various icons for file operations, editing, and debugging. The main text area shows a C program with the following code:

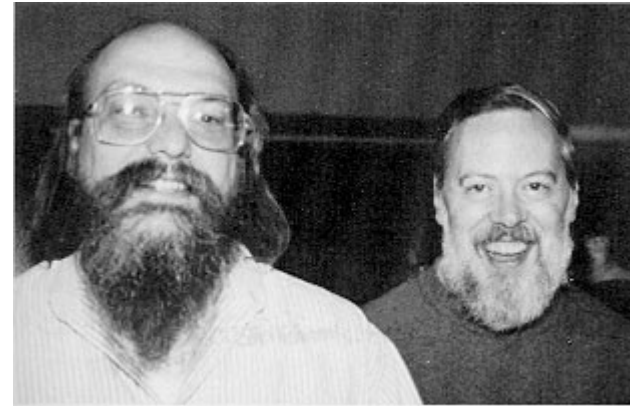
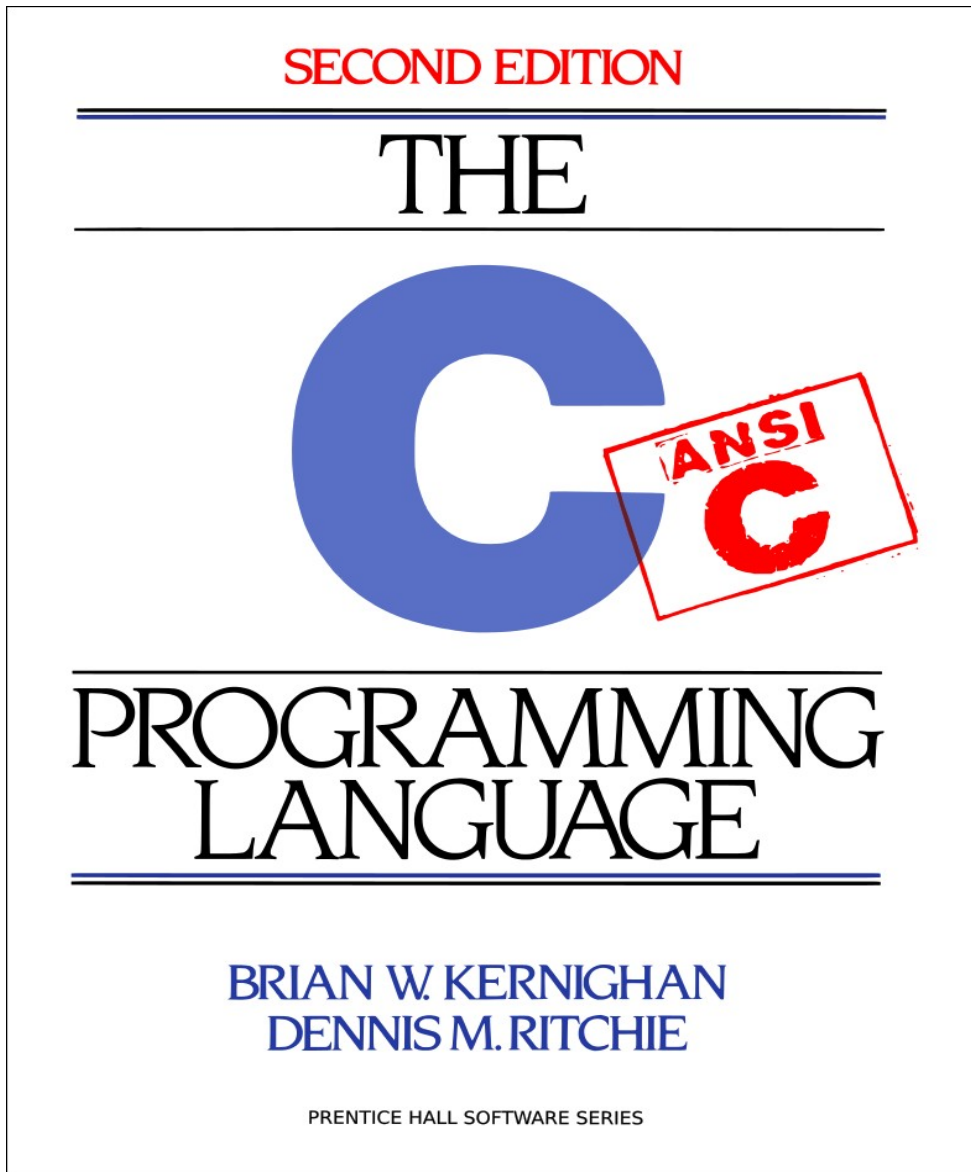
```
int xyz;  
  
int bar ()  
{  
    xyz = 2; /* break in bar */  
    return 1;  
}  
  
int foo ()  
{  
    xyz = 1; /* break in foo */  
    return bar ();  
}  
  
int main ()  
{  
    xyz = 0; /* break in main */  
    foo ();  
    return (xyz == 2 ? 0 : 1);  
}  
  
/* end of main */
```

The status bar at the bottom indicates the current file is "gdb_reverse_debugging_test.c" and shows "All L1 (C/I Abbrev)". A message "Loading vc-git...done" is visible in the bottom-most bar.

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

```
#include <stdio.h>
```

```
main()
```

“Errors” aside... :)

```
{
```

```
    printf("hello, world\n");
```

```
}
```

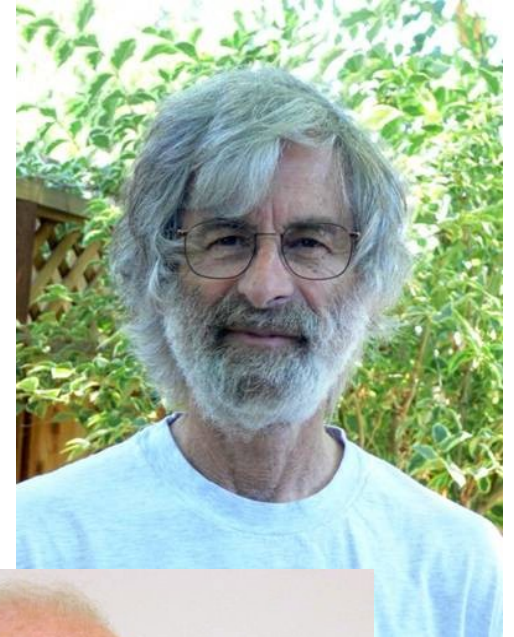


gcc



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.

