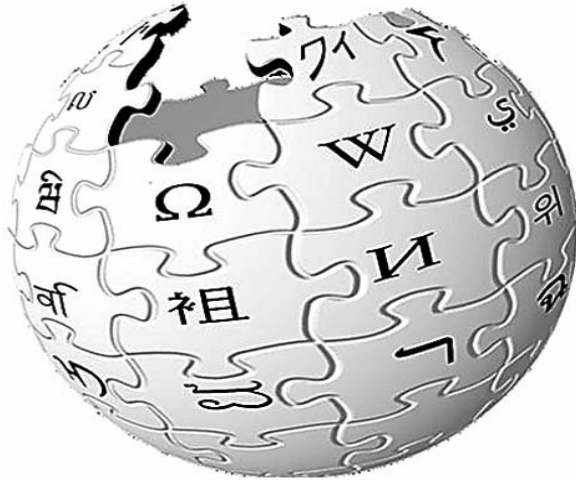


The Open Source Movement



What are these and what do they have in common?



Wikipedia



Linux

[Wikipedia](#)

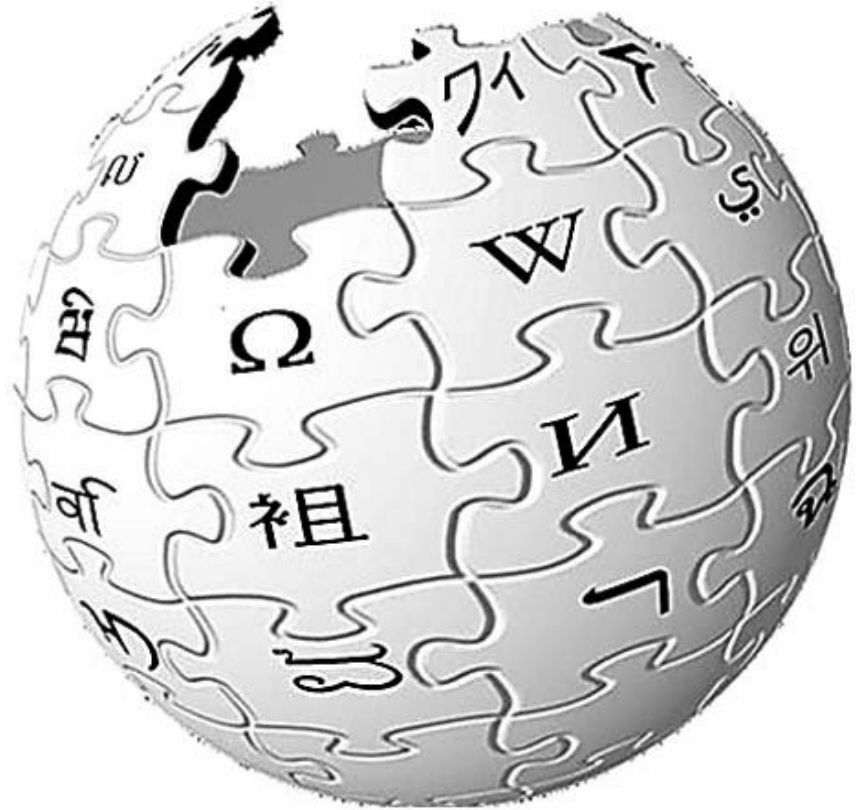
19 million articles

3.7 articles in English

90,000 Contributors

282 Languages

This information is correct as of
July 2011.





“Imagine a world in which every single person on the planet is given free access to the sum of all human knowledge.” – Jimmy Wales

Collaborative Creative Process



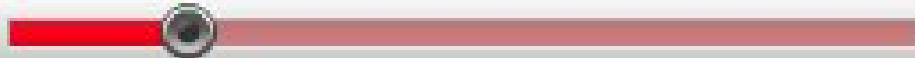
Licensed to be Shared

A commons arises whenever a given community decides that it wishes to manage a resource in a collective manner, with a special regard for equitable access, use and sustainability. It is a social form that has long lived in the shadows of our market culture, but which is now on the rise.

- David Bollier

COMMONS

YouTube



0:44 / 3:46



Access

To read this story in full you will need to login or make a payment (see right).

[nature.com](#) > [Journal home](#) > [Table of Contents](#)

News

Nature **438**, 900-901 (15 December 2005) | doi:10.1038/438900a; Published online 14 D

Wikipedia comes close to Britannica in terms of the accuracy of its science entries, a Nature investigation finds.

Encyclopaedias go

Britannica in terms of [▲ Top](#)






the accuracy of its science entries, a *Nature* investigation finds.

UPDATE: see details of how the data were collected for this article in the [supplementary information](#).

UPDATE 2 (28 March 2006). The results reported in this news story and their interpretation have been disputed by [Encyclopaedia Britannica](#). *Nature* responded to these [objections](#) .

One of the extraordinary stories of the Internet age is that of Wikipedia, a free online encyclopaedia that anyone can edit. This radical and rapidly growing publication, which includes close to 4 million entries, is now a much-used resource.

ARTICLE

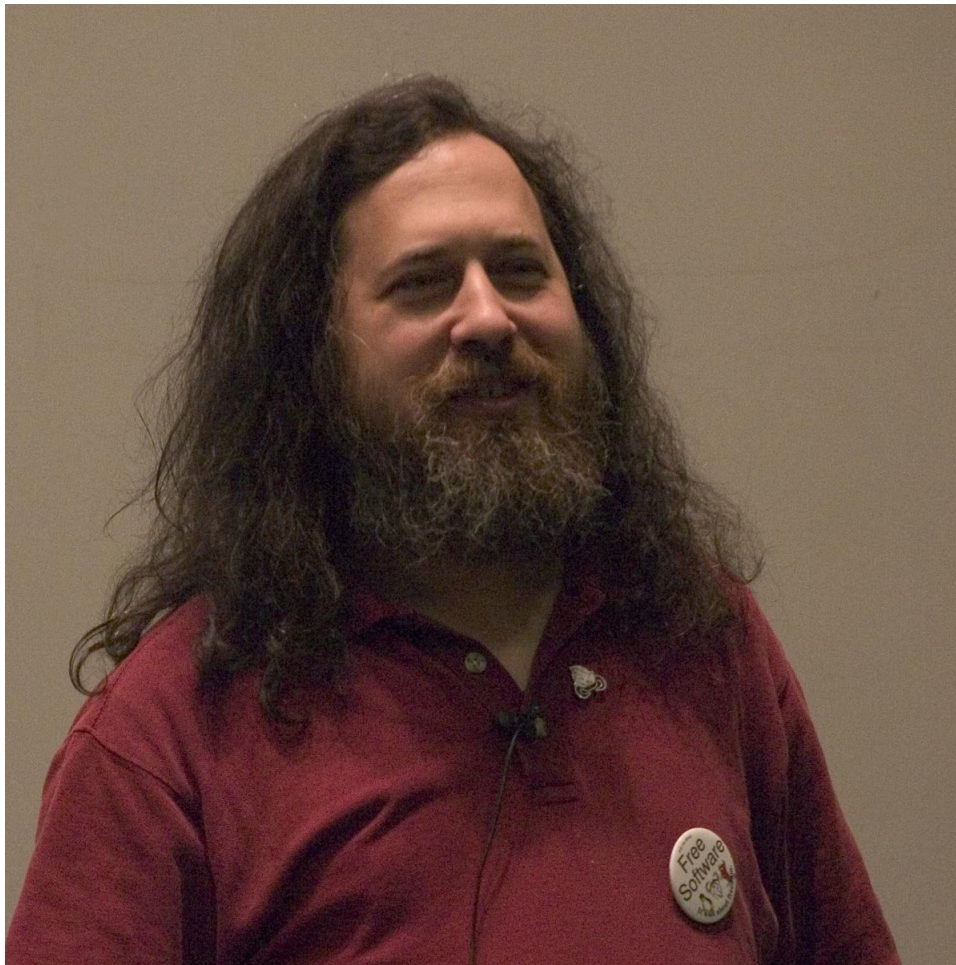
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The Seeker re
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Richard Stallman





The Hacker Ethic

NEWSLETTER

Homebrew Computer Club

Robert Reiling, Editor □ Post Office Box 626, Mountain View, CA 94042 □ Joel Miller, Staff Writer
Typesetting, graphics and editorial services donated by Laurel Publications, 17235 Laurel Rd., Los Gatos, CA 95030 (408) 353-3609

RANDOM DATA *By Robert Reiling*

Computer clubs continue to form around the country... E. Brooner would like to have material to help him get started with the "Flathead Computer Society" in the Kalispell area. His Address is P.O. Box 236, Lakeside, Montana 59922.

Did you see the SOL terminal demonstrated by Bob Marsh at the Sept. 1st meeting? An excellent design that will interest hobbyists and commercial users alike. It's available from Processor Technology, 6200 Hollis St., Emeryville, CA 94608. Write them for prices and specifications.

The OSI Systems Journal has been sent to all OSI customers (free—at least for the time being). It's a bi-monthly magazine with plans to go monthly in the future. There are 28 pages in the first issue (August 1976, Vol. 1, No. 1) with a hardware feature covering the OSI 440 Video Graphics System and software, features concerning Tiny BASIC for the 6800 and a Graphics Editor for the 6502. It also includes OSI product and software catalog data. The BASIC is, of course, the 2K Tiny BASIC developed by Tom Pittman. Many of you have met Tom at the Homebrew computer Club meetings. The OSI Systems Journal is a good way to learn more about the OSI computer hardware and software along with helpful user information. The contact address is: The OSI Systems Journal, P.O. Box 134, Hiram, Ohio 44234.

KIM-1 users now have a newsletter. Eric Rehnke is producing the newsletter every 5-8 weeks, MOS Technology, Inc. helped get it started by sending copies to all known KIM owners. The user group, however, is independent of MOS Technology, Inc. The newsletter is devoted to KIM-1 support. Subscriptions are \$5.00 for the next six issues. Contact "KIM-1 User Notes," c/o Eric C. Rehnke, Apt. 207, 7656 Broadview Rd., Parma, Ohio 44134.

The BAMUG club has a new contact address. It is BAMUG, c/o Timothy O'Hare, 1211 Santa Clara Ave., Alameda, CA 94501. Write Timothy for club information. I suggest you include a stamped, self-addressed envelope.

Beware of board snatchers! Glenn Ewing reports 11 boards were taken out of his IMSAI computer. The boards are: MPU, 4 RAM-4's, SIO-2, P10-4, PIC-8, PROM-4, IFM and FIB. Glenn suggests you consider providing good security for your computer and associated equipment. In his case the computer was in a locked office which was burglarized. In the event you

have information on the above boards, write Lt. Glenn Ewing, Code 62EI, Naval Post Graduate School, Monterey, CA 93940.

For family and friends of people who always wanted to know about computers, but didn't want to ask them, four easy-going classes are available starting Oct. 19th on Tuesdays from 7 to 9 p.m. You can learn how computers work and what they can and can't do. You will also have some of the jargon deciphered, see what you can do with a computer, play some games and learn to program. The cost is \$25. Contact the Community Computer Center, 1919 Menalto Ave., Menlo Park, CA 94025, phone (415) 325-4444.

A call for papers in personal computing has been issued by the 1977 National Computer Conference. The conference is scheduled for June 13-16, 1977. I have a few copies of the guidelines if you would like to submit a paper.

The First West Coast Computer Faire will be held April 16 and 17, 1977 at the San Francisco Civic Auditorium. This faire is shaping up rapidly. If you would like to lead a conference or participate in a conference session, please contact me. More information about the Faire is in the accompanying article. □

THE FIRST WEST COAST COMPUTER FAIRE *A Call For Papers And Participation*

The San Francisco Bay Area is finally going to have a major conference and exhibition exclusively concerned with personal and home computing—The First West Coast Computer Faire. And, it promises to be a massive one! It will take place in the largest convention facility in Northern California: The Civic Auditorium in San Francisco. It will be a two-and-a-half day affair, starting on Friday evening and running through Sunday evening, April 15-17.

It is being sponsored by a number of local and regional hobbyist clubs, educational organizations and professional groups. These include:

- The two largest amateur computer organizations in the United States—the Homebrew Computer Club and the Southern California Computer Society
- Both of the Bay Area chapters of the Association Of Computing Machinery—the San Francisco Chapter and the Golden Gate Chapter
- Stanford University's Electrical Engineering Department





Bill Gates

February 3, 1976

An Open Letter to Hobbyists

To me, the most critical thing in the hobby market right now is the lack of good software courses, books and software itself. Without good software and an owner who understands programming, a hobby computer is wasted. Will quality software be written for the hobby market?

Almost a year ago, Paul Allen and myself, expecting the hobby market to expand, hired Monte Davidoff and developed Altair BASIC. It took only two months, the three of us have spent a year documenting, improving and adding features. We have 4K, 8K, EXTENDED, ROM and DISK BASIC. Computer time we have used exceeds \$40,000.

We have gotten from the hundreds of people who use Altair BASIC has all been positive. Two surprising things however. 1) Most of these "users" never bought software (most of all Altair owners have bought BASIC), and 2) The royalties we have received from sales to hobbyists of Altair BASIC worth less than \$2 an hour.

The majority of hobbyists must be aware, most of you steal your software. Hardware must be paid for, but software is something to share. Who cares if the people who worked on it get paid?

One thing you don't do by stealing software is solve some problem you may have had. MITS doesn't pay royalties for software. The royalty paid to us, the manual, and the manual make it a break-even operation. One thing you can't do is get good software from being written. Who can afford to work for nothing? What hobbyist can put up with programming, finding all bugs, documenting his program, and finding a programmer for free? The fact is, no one besides us has

invested a lot of money in hobby software. We have written 6800 BASIC, and are writing 8080 APL and 6800 APL, but there is very little incentive to make this software available to hobbyists. Most directly, the thing you do is theft.

What about the guys who re-sell Altair BASIC, aren't they making money on hobby software? Yes, but those who have been reported to us may lose in the end. They are the ones who give hobbyists a bad name, and should be kicked out of any club meeting they show up at.

I would appreciate letters from any one who wants to pay up, or has a suggestion or comment. Just write me at 1180 Alvarado SE, #114, Albuquerque, New Mexico, 87108. Nothing would please me more than being able to hire ten programmers and deluge the hobby market with good software.

Bill Gates

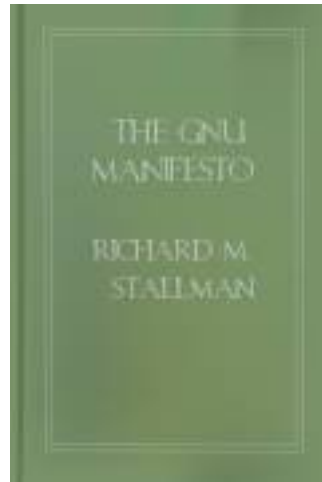
Bill Gates
General Partner, Micro-Soft

As the majority of hobbyists must be aware, most of you steal your software. Hardware must be paid for, but software is something to share. Who cares if people who worked on it get paid?

Is this fair? ... The thing you do is theft. ...



Unix developers Dennis Ritchie and Ken Thompson – “Love, Ken”



The GNU Manifesto

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.



GNU is *Not* Unix

"Free software" is a matter of liberty, not price. To understand the concept, you should think of "free" as in "free speech," not as in "free beer."

(Richard Stallman, The Free Software Definition)



FREE SOFTWARE
F O U N D A T I O N

Free software is freedom to:

- ... **run** the program.
- ... **study** how it works (source code needed).
- ... **share** it with your friend and neighbor.
- ... **improve and distribute** it to benefit the community.



"Hello everybody out there using minix - I'm doing a (free) operating system (just a hobby, won't be big and professional like GNU) ..."

(Linus Torvald, Usenet post, 1991)



Collaborative Creative Process





GNU



Linux

Kernel





RED HAT ENTERPRISE LINUX 5

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100%

ONE HUNDRED PERCENT
COMPREHENSIVE
AUTHORITATIVE
WHAT YOU NEED
ONE HUNDRED PERCENT

Configure Apache
Server for a
Linux/Unix or
Win32 system

Leverage Apache
using SSI, CGI, PHP,
Perl, and Java
servlets

Secure your site
using SSL, certificate-
signing services,
and other tools

"Kabir has done it again! *The Apache Server 2 Bible*
is an invaluable reference for both beginning
and experienced administrators."

— Elizabeth Zinkann, *Sys Admin Magazine* Contributing Editor and Review Columnist



Apache Server 2



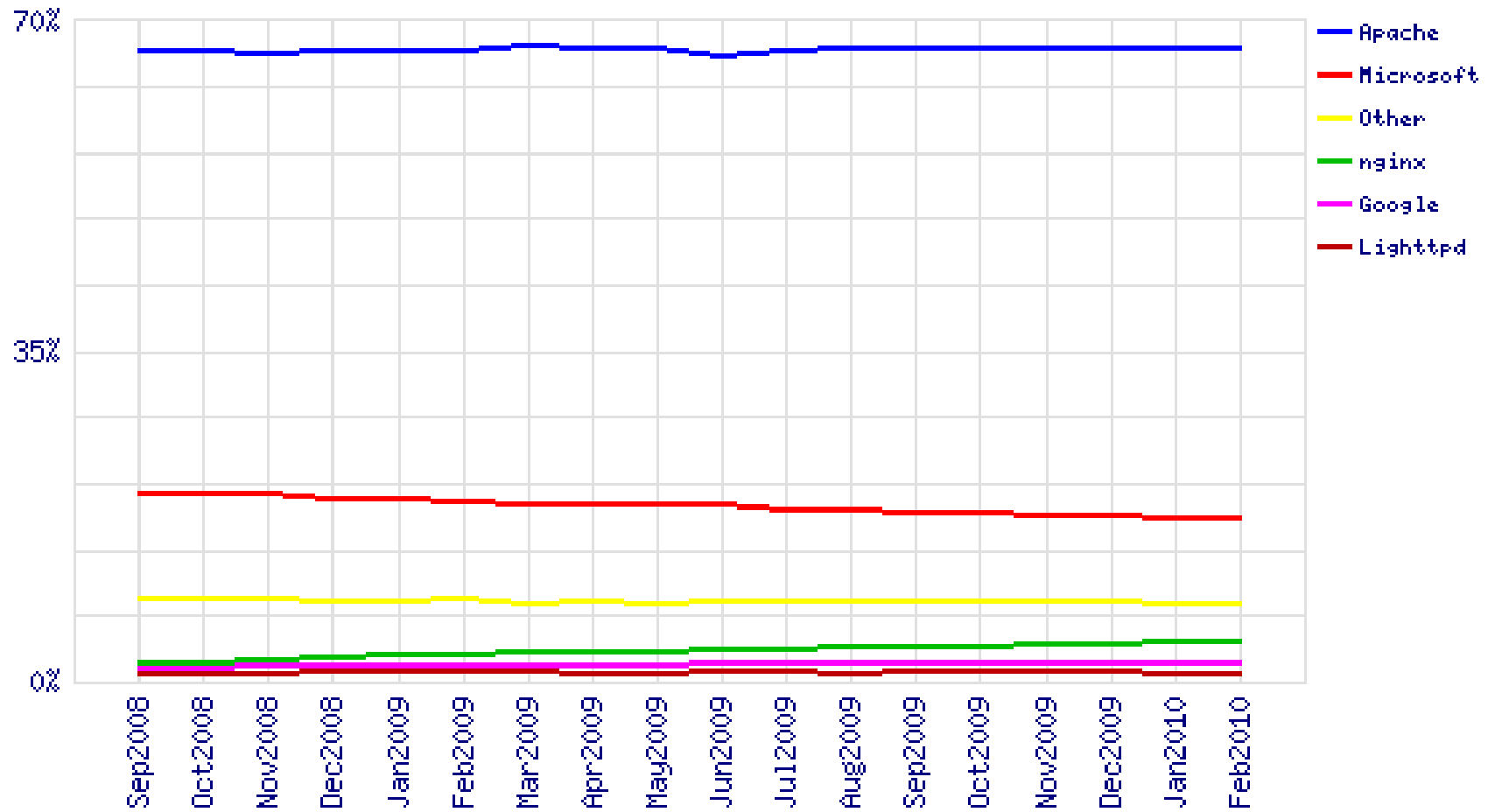
**BONUS
CD-ROM!**

Apache, PHP, Perl,
Tomcat, MySQL, and more

Bible

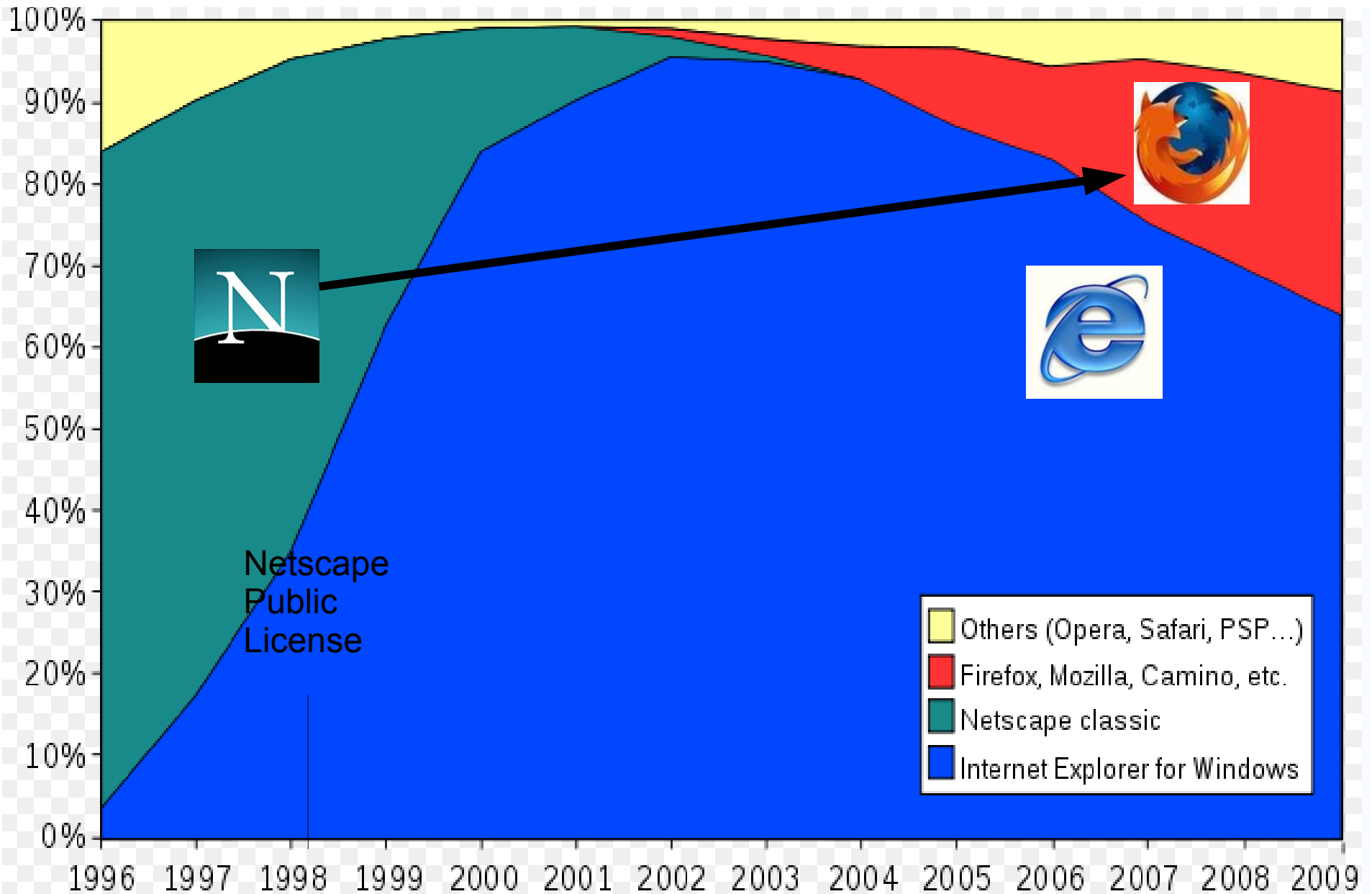
Mohammed J. Kabir
Author of *Red Hat Linux Server*

Market Share for Top Servers Across the Million Busiest Sites September 2008 - February 2010



Source: Netcraft.com

Browser War



Today: Our Cyber Infrastructure



The User/Client Level



PHP Python Perl ...

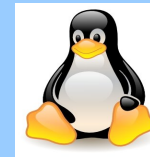
MySQL Database Servers



Apache Web Server



GNU/Linux



The LAMP Stack

Free v. Open Source?



FOSS = Free and Open Source Software

Open Source vs. Free Software



Open Source Initiative: “...dump the moralizing and confrontational attitude associated with 'free software' ... and sell the idea strictly on ... pragmatic, business-case grounds .”

Richard Stallman, *Why 'open source' misses the point of free software*:

“Free software is an ethical imperative, because only free software respects the users' freedom.”



FREE SOFTWARE
F O U N D A T I O N

Today, FOSS is Everywhere!

