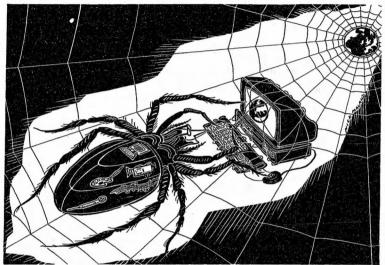
Computer 19



A new project makes it possible to access information anywhere

The world in a Web

Joe Levy

..... MAGINE a system that links all MAGINE a system that links all the text, data, digital sounds, graphics and video on all the world's computers into a single interlinked hypermedia "web". This is the potential of the Internet-based World Wide Web (WWW or WS) pro-ject which stems from CERN, the Centre Européene pour la Recher-che Nucleaire.

Centre Europeene pour la reccuer-che Nucleaire.
Of course the internet doesn't com-nect all the world's computers, being primarily a network of university and research machines. But this is changing fast, and it is becoming easier for home users to access the saturate through carriee providers.

challpilis ion, and it is becoming the metwork through service providers like Demon. The WWW project is based on the principle of 'universal readership' (cauthorised) person should be able to access it from anywhere in the world, using one simple program. One of the program o

ternet. Your friend in the US is an expert on the subject, so you open the "home page" provided by her university" as server — easy since you happen to know its address. The page provides information on the departments; you mouse click on the link to your friend's department. A diagram of the department. A diagram of the region representing picture, a message recorded in digital audio, details of her work, and a set of links to the information on the ternet. Your friend in the US is an

set of links to the information on the net that she uses regularly, includ-ing topics in the subject that you are interested in

ing topics in the subject that you are interested in. Interested in. Interested in. Cicks take you to an abstract of a paper that looks interesting. This might be a paper written in typertext with links to other estimation of the properties of th

have had the chance to explore other useful information. The Web is based on the idea of hypertext: that is, computerised text with links to other bits of text. Thus a heading matter be a link to a particular of the state of t

understands so that the server can respond in the correct way.
Client programs are called responsible to the programs are called the control of the control

terface and access to several "home pages" to get you started in accessing the Web. Like other browsers, archie, gopher and other services. When used to browse a source of information, Mosaic responds appropriately: a hypertext document will be displayed in the correct format. Plain text, graphics, digital audio and MPEO-standard digital audio and MPEO-standard digital video are passed to the appropriate program on the machine where they

are displayed or output.

Information can be provided on the Internet by simply making a file available for anonymous file trans-

fer (ftp). However, the most flexible method of embedding information into the web is to provide it in a hypertext format using HTML, the

bypertext format using HTML, the hypertext mark-up language. This can be interpreted by a browser so that text appears in a reasonable format (section headings, paragraphs, The other important feature of HTML is, of course, that it allows out oinsert links to other flies on the internet. The file is located using a format that allows the address of a format that allows the address of the internet. The file is located using the contract of the

The Web was initially developed at CERN to serve its constituency of high energy physicists but is now used to make all sorts information accessible, from poetry and history of art to the documents provided by the White House and US satellite

the White House and IDS satellife weather maps.
The traffic on the CERN Web server is doubling every four months, and there are now at least server, and the server is sold to the server is potential user base of 15 million users in more than 50 countries. The World Wide Web's simple formats and protocols have allowed a very fist expansion. The future will bring more sophisticated but competitions of the server is the server of the s elaborate hypertext, security fea-tures and, inevitably, a system whereby information providers can charge users for information.

To access the World Wide Web, telnet to info.cern.ch (128.141.201.74), This will bring up a simple text-based query system with pointers to information on the Web. Mosaic is available by anonymous ftp from ftp.ncsa.uiuc.edu in /Web/xmosaic. Demon Internet Services: 081-349 0063. Dr Levy works at the Human Communication Research Centre, Edinburgh University. Email: joe@cogsci.ed.ac.uk.

Bookbytes

Jack Schofield

■ Mondo 2000: A User's Guide To The New Edge (Thames and Hudson F12 95)

WITH Mondo 2000 magazine not being available from most book-stalls, R. U. Sirius and Queen have have produced a paperback collec-tion, edited by cyberpunk novelist, software designer and university professor Rudy Rucker. The 42 sections as from Abardaises vis professor Rudy Rucker. The 42 sections go from Aphrodistacs via Brain Implants and Smart Drugs to Zince, which explains the Claimer. This book is not intended advice, and you should consult your doctor or other professional before embarking on any of the medical or other programs described herein. But the bulk of the content is about But the bulk of the content is about the new wave computing counter-culture: artificial life, cyberspace, electronic freedom, hacking, multimedia, The Net, virtual reality and, of course, virtual sex. If all that isn't enough, the section on personal computing has a wonderful photograph of Bill Gates's head superimpeed on a body-bulker's bulging toma. Buy wo copies and you'll have one to frame.

■ The Internet Navigator by Paul Gilster (John Wiley, £21.95) Gister (John Wiley, £21.95)
THE Internet is bursting with information about using the Internet, but there is a chicken and egg problem to the problem to the problem to be a p with explanations of commands and example print-usit. As well as the usual stuff — tolnet, fip etc — cover-ender of the control of the control of the whois servers, and developments such as Project Gutenberg and World Wise Web. The book is up to-net Talk Radio and the President Clinton/White House connections. Unlike many American computer takes a global view. The copious contents pages and excellent index make It simple to find things.

The PC Plus Modem and Communications Guidebook by Sue Schofield (Future Business Books, £19.95)

Books. 19.289

FUTURES first book is a nicely presented beginners' guide. Sue Schoffeld (no relation) knows comms well, though her editor should have seen as the program (£2.50), or a free Compu-Serve introductory membership kit.

■ The Way Computers and MS-DOS Work by Simon Collin (Micro-soft Press, £14.95)

soft Press, Eth.85)
BILLED as "The Ultimate All-Color Beginners' Guide", this is the first in a series produced in the UK by Dorling Kindersley, and typical of the company's work. The book is company to the company t