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THE INTERNET YELLOW PAGES

SECOND EDITION

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"...a must-have book for anyone who wants to explore the vast reaches of the Internet....Don't venture into the ether without it."
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SECOND EDITION

Harley Hahn
and
Rick Stout

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To The Little Nipper.

—Harley Hahn

To my lovely wife Dawn, my daughter Jenna, and my new son Alexander.

—Rick Stout

About the Authors . . .

Harley Hahn
is an internationally recognized author, analyst and consultant. He is the author of 15 books, including Osborne's best-selling **The Internet Complete Reference**, and such other titles as **Open Computing Unix Unbound**, **Assembler Inside & Out**, **A Student's Guide to Unix** and the well-known **Peter Norton's Guide to Unix**. Hahn has a degree in mathematics and computer science from the University of Waterloo, Canada, and a graduate degree in computer science from the University of California, at San Diego.

Rick Stout
is a Certified Public Accountant and holds degrees in business administration and accounting. Formerly a consulting manager at the accounting firm of Ernst & Young, Stout is a specialist in business computer and accounting systems. He is the author of several books, including **The Peter Norton Introduction to Computers**, and a coauthor of Osborne's acclaimed **The Internet Complete Reference**.

Introduction

If all this works out that way I hope, you will be reading this back in 1995. That is, I will receive this message from myself, sometime in late 1994, just in time to get it to the printer to be included in the second edition.

Wait a minute. Maybe I should take a moment to explain, because if you haven't heard of the Temporal Gateway — and how could you? — you probably haven't the foggiest idea what I am talking about.

Let me start from the beginning. I sent this message to myself from the year 2021, in order that it be included in the second edition of *The Internet Yellow Pages*. No wait, that's not the beginning. I guess the beginning was in 2017, when T. L. Nipper figured out how to build the Temporal Gateway into the past.

No, wait, that's not really the beginning. The real beginning would be in the late 1990s when the Internet broke up into pieces and what came to be called the Net (or more formally, the People's Net) emerged as the organized successor to the free non-commercial information network.

Does that help? No, I guess this is all a hopeless muddle. You see, I did write some Internet books at one time, way back in the mid-1990s, but that was about twenty-five years ago and things have changed a lot. I am not sure how to explain it so that you could understand. So many of the New Words don't even exist in 1995, that I wouldn't even know where to start.

How about this: It happened that in 2017, a genius named T.L. Nipper figured out how to send information into the past. Like most people, I don't understand the details — I think it has something to do with neutrinos and tachyons — but the important thing is that the process is only partially dependable and highly restricted by the MFS. Moreover, it takes an enormous amount of energy just to send a few characters.

Transmitting this introduction, for example, consumed the equivalent of a month's energy allotment for the entire Western Region (what used to be California and parts of Nevada and Oregon). In fact, if it wasn't that the Governor of the Continental Fusion Project agreed to cooperate, I would never have been able to send this message at all.

Anyway, this all has to do with the 50th anniversary of what used to be called the Internet, and some researcher in the Information Division of the MFS discovered the date and thought it would be a good idea to send a message into the past — to celebrate, so to speak.

I don't know how they did it and what strings they had to pull, but somehow they got the CFP to cooperate and they were able to set up a Temporal Gateway just long enough to send a message back to 1994. And since I was the author of some old-time Internet books, they asked me to write the message.

The deal was that I could write anything I wanted, which would then be sent back twenty-five years into the past — November 1994 actually — to myself. And, if it all worked, the message from 2021 would suddenly appear in my electronic mailbox back in 1994. The intention was that I would send a message that would be suitable for the introduction of one of my books.

The trouble is, once you send something, it generates what is called an "alternate reality," so that you don't get to see the results of what you send. Thus, I have no way of knowing whether or not this message got through. But if it did, and you are reading this in 1995, at least you will know that it worked.

So, having explained all of that, what do I want to tell you?

Well, to start, I should tell you that the Net is now considered to be the most significant invention of the 20th Century. However, it wasn't until the early 2000s that it became apparent just how important the Net actually was. Unfortunately, the real nature of the Net had been completely misunderstood until this time, and just about nobody anticipated what would happen. In fact, until the Information Decree of 1998, most of what was on the Net was highly disorganized and left up to individual preference.

Perhaps another thing that I should mention is that what we now call the Net (in 2017) is really nothing like the old Internet, although there are a few similarities. We can access information just about anywhere we go, and the speed is so fast as to be unnoticeable. We can view and transmit with ease, and public access (to the Pubnet portion anyway) is universal.

The trouble is, everything is managed and organized and... well... boring. You see, in the olden days (as you are reading this), the Net was not really run by anyone and was poorly organized. Of course, this meant that there were problems, but there was also an enormous amount of personal freedom. This freedom meant that

anyone who knew how could create and broadcast information. As I write this, such facilities are completely unknown.*

The point is: you happen to be living in a time when you have enormous opportunity. The Net as you know it is not going to last all that long but, while it does, you will have a chance to *participate* in ways that never existed until the 1990s and certainly do not exist today.

If I remember correctly, back in 1995 you had just about total freedom to send out whatever information you wanted. I urge you to not lose sight of the importance of this capability. I keep thinking that if things had gone otherwise, we might not have had the Information Decree and that the Microsoft Friendship Society might never have had... well, that's neither here nor there and, as the saying goes, you can't change the past.

I guess what I really want to tell you is that the Net as you perceive it is a temporary resource, and you should enjoy and appreciate it while you can. If this message did get through, and you are really reading this in the second edition of *The Internet Yellow Pages*, I urge you to buy the book and spend some time exploring. Nothing lasts forever, and some things end all too soon.

And, oh yes... have fun. Soon you will need a permit.

Harley Hahn
December 21, 2021
Third District, Western Region

INTRODUCTION TO THE FIRST EDITION

This book will change the way that you think about the world.

Even more important, this book will change the way that you think about people and how we exist as a species.

How can this be? After all, this book is really just a large catalog, and what could be so important about a catalog?

Well, take a look at the list of categories on the back cover, and you will see that virtually every important type of human activity is represented. Indeed, this book contains descriptions of thousands of separate items, grouped into 185 different categories.

The importance of all this is not so much in the details, but in the fact that it even exists at all. Not long ago, most of what you see in this book had not yet been created. A few years ago, none of it existed. But what does it all mean to *you*?...

Imagine yourself exploring. You walk for days through hot steamy jungles, you climb over rocky hills and through canyons; you drag yourself across an endless arid plain until, one day, you look at the horizon and see what looks like a city. As you approach, you see that it is not really a city but — whatever it is — it is vast beyond description: more buildings, vehicles, works of art, and so on, than you have ever seen or even imagined.

You spend many hours exploring, always finding something new, something challenging, and something delightful. Being a stranger, you feel confused and you spend much of your time wandering haphazardly. Once in a while you see a bit of a pattern and, for an instant, you make some sense out of the immediate neighborhood. But for the most part, you wander from place to place in a cloud of distraction and fascination. What makes it all so frustrating is that you get the feeling that everything you see is part of something very large that you just can't understand.

One day, you happen upon a stranger who looks like he knows his way around; at least he seems familiar with the surroundings.

You ask him, how do you find your way?

He shrugs. You'll get used to it.

But, you ask, why is this all here?

I don't know, he says, and he starts to wander away.

Wait, you call after him, where can I get a map?

No such thing, he answers over his shoulder.

But can't you help me at all?

He turns around and looks at you with a gleam in his eye and a funny half smile on his face. Clearly, he knows something that you don't. Something important.

This place, he gestures widely, is only a few years old. In fact, you could travel for days and almost everything you'd see would be less than a year old. You will see new places almost everywhere you look and, every so often, you will notice that old ones have disappeared. You turn around, and when you turn back it's changed — larger, more complicated, more... well, it's hard to explain. Like I said, you'll get used to it.

But don't be confused, he continues. The meaning in what you see is not about the structures or the vehicles. It's not about the art or the beauty; or pleasure or truth or good or bad. It's about people and what they have created. People working together and by themselves.

You will notice that wherever you go, *you will never see* another person (I know this to be a fact, and I have been

*On the official Net that is. There are rumors of underground Slicknets but, like most people, I have never seen one.

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here as long as anyone). However, you can talk to other people whenever you want, so you will never be lonely. No matter who you are, no matter how individual your desires and your preferences, there are people just like you here somewhere.

So where are you? Nobody really knows. The important thing is that we are all here together. We are all connected. We all share. We all belong, especially those of us who have nowhere else to go. And the best thing is that you can come here whenever you want. No one is ever turned away.

Personally, I don't really understand why this place is so important. Most of us just move around from place to place, doing whatever we feel like. Still, just be glad that you are here at all. As I say, most of this is only a few years old and you are among the first.

But wait, you say. You told me that I would never actually see anyone. What about you? I can see you.

He looks at you for a long moment.

You only *think* you see me. I don't really exist. Anyway, for what it's worth, there is a map of sorts. Don't lose it and you can take it with you wherever you go.

He points behind you to a single piece of paper lying on the ground. You turn around to pick it up, and by the time you turn back he is gone. You look down. In the center of an otherwise blank piece of paper is a big "X" and the words "You are here."

You stuff the paper into your pocket and start walking. After a few minutes, you turn around and gasp. Behind you is a large sign. It must have been there all the time, how could you have missed it? Okay, you say to yourself, I may not know where I am, or why I am here, or what anyone is really doing, but now at least, I know the name of this place. For the sign says:

Welcome to the Internet.

The Internet and This Book

WHAT DO YOU NEED TO KNOW TO USE THIS BOOK?

To use this book, you need to have access to the Internet, and you need to know how to use the Internet. Both these topics are fully explained in another one of our books, *The Internet Complete Reference* (Osborne McGraw-Hill).

If you do not as yet have Internet access, start with that book. Read Chapter 3 ("How to Connect to the Internet") for the basic concepts, and then use Appendix A ("Public Access to the Internet") for advice on how to find and choose an Internet provider. The book contains a long list of such providers, as well as a special offer to new users to let you arrange for one month's free access.

Once you have Internet access, you need to master the skills necessary to use the Internet. In practice, this means learning how to use the various Internet resources, all of which are different. The following table shows the various resources that are in *this* book. The chapter numbers show which part of *The Internet Complete Reference* explains that resource. For a quick introduction to all the resources, see Chapter 2.

Resource	Chapters
Quick tour of the Internet	2
Anonymous FTP	16
Archie	17
Finger	8
Gopher	21
Internet Mailing List	25
Internet Relay Chat (IRC)	20
Listserv Mailing List	25
Mail	5, 6
Telnet	7
Usenet: in general	9, 10, 11
Usenet: newsreaders	12, 13, 14, 15
Wais	23
World Wide Web	24

People often ask, how much do I really need to learn? There are two answers — one bad and one good — to that question. The bad answer is:

> You do not need to know how to use everything. You only need to learn how to use the resources that you are interested in.

The good answer is a lot more realistic:

> You will likely become interested in all the resources, so you really do have to know how to use everything.

IS IT HARD TO LEARN HOW TO USE THE INTERNET?

No, it is not hard at all. It just takes practice.

Don't be put off by people who say that the Internet is hard to use or is not "user friendly." You must be realistic. The Internet is one of the most important and complex inventions of mankind. "Using the Internet" really means learning some basic concepts and then teaching yourself how to use a variety of different programs.

Once you become an experienced user, you will see that — considering all that it offers — the Internet and its programs are remarkably user friendly. The problem is that some people confuse the idea of "easy to use" with "easy to learn." The only way you can make a complex system so easy to learn that you can use it on the first day is by removing (or hiding) most of the power. But then, once you become experienced, you find that the system is too simple and awkward.

Millions of people around the world already use the Internet. You don't need to be a computer expert. To put this in perspective, using the Internet is a lot easier than many things that we all do every day, such as driving a car or shopping for groceries. All you need is some practice and some patience.

Our best advice? Open this book to anywhere and find something interesting. Then, use *The Internet Complete Reference* to teach yourself what you need to know. Experiment. Have fun. Go slow. Enjoy.

CENSORSHIP: OR, WHAT SHOULD I DO WHEN I AM OFFENDED?

I promise you that, sooner or later, something on the Internet will offend you. (Indeed, something in this book may offend you.) Please don't let it bother you.

The Internet is the largest gathering of human beings ever assembled and one of the ground rules is that there is No-One-In-Charge, which means that there is no censorship. This freedom is the prime reason that the In-

ternet has become so important and why there are so many diverse resources.

Still, some people have a little trouble getting used to such license. Eventually, we all come to realize that if we don't like something, we can ignore it. For example, if you are reading the articles in a Usenet newsgroup, and you encounter one that you find particularly offensive, you can skip it. However, at the beginning, the temptation to complain is too strong for some people.

So someone complains... "Yes, I do believe in freedom of expression, but comparing the President of the United States to a retarded Nazi feminist minority member with AIDS is just too much and should not be allowed. After all, we must remember that using the Internet is a privilege and not a right, and that if people like you continue to pollute the network with ignorant, racist, dangerous opinions, the Internet will be taken away and... blah, blah, blah..."

Well now. All that such a diatribe means is that, as an Internet user, the writer is still immature. I assure you that no one, anywhere, will pay the least bit of attention to a self-righteous pronouncement of what is right or wrong. So, should you ever run into such a person, remind them gently that the best part of the Internet is its diversity, and that tolerance of other people's opinions and ways of thinking is a virtue.

Indeed, if there is one Internet Golden Rule, it is:

Censor yourself, not others.

Realistically, we all come to learn that we can't do anything about how other people use the Internet, so there is no point even trying. The idea is to share and enjoy. If you don't like something, forget about it.

HOW TO CONTACT US

This catalog contains thousands of items but still, only a small fraction of what the Internet has to offer. If you would like to add something to the next edition of the catalog, just let us know. The address is

catalog@rain.org.

Similarly, if you have any comments, don't bother the publisher. Send them to us directly and Rick and I will be glad to listen.

BEFORE YOU CONTACT US

To save you a bit of time, here are the answers to a few of the most commonly asked questions that we are asked.

(1) I am new to the Internet and I don't know what to do. How do I access the resources in this book?

This book is a catalog. It will *not* teach you how to use the Internet. If you are a new user, you need to spend a fair amount of time learning about the Internet (sorry, but that's a fact), and the best suggestion we have is to use our book *The Internet Complete Reference*. Unless you already know something about using the Internet, don't expect to be able to start in right away. Still, don't be discouraged. The Internet is a lot of fun and will well repay your effort.

(2) I tried to connect to a resource and it asks me for a password. What should I do?

You are probably connecting with the wrong program. To access a resource, you must use the exact service that is listed in the book. For example, for a gopher resource, you must use a gopher program to connect; for an anonymous ftp service, you must connect with an ftp program; and so on. You can use telnet to log in to a remote computer, but you only do so when you *do* have a valid user name and password. If you need help, the best thing to do is get a good reference book on the Internet.

(3) Within the listing of a particular resource, I see a "*" character. What does this mean?

Many of the resources point to files and directories. (A directory is a collection of files.) Occasionally, you will see a resource whose description ends with a "*" character. This character is a shorthand way of saying "all the files in that particular directory." For example, if you see:

/pub/*

it refers to all the files within the **/pub** directory. If this doesn't make sense to you, you can ask someone for help or you can find yourself a good beginner's book on Unix. (The best such book is *Open Computing Unix Unbound*, by Harley. It is published by Osborne McGraw-Hill and the ISBN is 0-07-882050-2.) Although you don't need to know Unix to use the Internet, many of the computers that you will access are Unix computers and having a basic understanding of Unix is extremely helpful.

(4) How can I advertise in this book?

Everything in this book is free. This is *not* a commercial directory, like a telephone yellow pages book. We do our best to ensure that nothing gets in this book unless it is free to use. Thus, we do not take paid advertisements. All the "advertisements" in this book were written by Harley and are just for fun.

Acknowledgments

A great many people helped Rick and me with the production of this book and, if you don't mind, we'd like to take a few minutes to thank these people by name and acknowledge their help. Of course, you don't really need to read all of this. No one is watching and you could probably just skip this section without being caught. Remember though, the real mark of a person is how he or she behaves when no one is watching.

I don't want to scare you, but we did receive a letter from one person who refused to read the acknowledgments in the first edition of this book. Actually, it was pitiful to even hear about it. This poor soul thought no one would ever notice, but he forgot that when you neglect to do what you know is right, you are only fooling yourself. So, throwing caution to the wind, he completely ignored the acknowledgments and within three days, his entire life was exposed as a shallow, meaningless sham.

Still with me? Okay.

To start, we have Wendy Murdock, our principal research assistant: a multi-talented artist and writer whose skill, patience and hard work contributed greatly to the quality of this book. Just between us, Wendy never stops amazing me; I still can't figure out how she can be so talented and accomplished.

Next, we would like to thank Michael Peirce of Ireland. I suppose that it is possible to write a best-selling computer book without Michael's help but, personally, I can't imagine doing so. This guy is just amazing. Between him and Wendy, there isn't much about the Net that they don't know. In fact, I bet that you could walk into any computer conference and throw a brick and not have to worry about hitting someone who knew more about Internet resources than Wendy and Mike. (Although it might be interesting to try.)

To continue. There are four other researchers who also made important contributions: Scott Yanoff (of Milwaukee, Wisconsin), Carrie Carolin (Wenatchee, Washington), John Navarra (Chicago, Illinois) and Jim Hall (San Diego, California). For excellent proofreading and data entry, we also thank Ronda Stout (San Diego).

Moving right along, we have Lunaea Hougland (our favorite copy editor) who did her usual excellent job on the manuscript. What a gem she is. I have been working with Lunaea for so long that I have come to depend upon her as a pillar of grammar and philology. Moreover, she is the most pleasant person in the entire publishing industry.

And, finally, for work on the first edition, we thank Paola Kathuria (London, England), Brooke Jarrett (San Diego), Peter ten Kley (The Netherlands), and Rick Broadhead (Toronto, Canada).

Now, aside from all these individuals, there are a number of people at various companies who provided help. At Rain (Santa Barbara's Regional Alliance for Information Networking), Marcy Montgomery and Timothy Tyndall provided me with Internet access.

For computing resources, I thank IBM (Ken Bracht of the Consultant Relations department); Sun Microsystems (Laura Lilyquest, Laura Sardina, Ranjini Mehdi, and Wayne Gramlich of the Chief Technical Officer department); and Apple (Keri Walker, Tina Rodriguez, Doedy Hunter).

For other equipment, I thank Telebit for modems (Mark Gallant); Ultra Spec Cables for Sun-compatible cables (Ed Hall); and Cybex for PC extension systems (Sid Falling and Bill Neiland). For PPP software for the Sun workstation, I thank Morning Star Technologies (Jamey Laskey and Ashley Burns).

And for telecommunications assistance, I thank GTE (Rhonda Bushno and Lynn Cook), Pacific Bell (Hal Lenox) and AT&T (Dick Muldoon).

At this point you might be wondering, does this mean that Harley and Rick are recommending these companies? Are they telling me that I should buy Internet service from Rain, computers from IBM, Sun or Apple, modems from Telebit, and so on? The answer is that we did think about suggesting that these are good people for you to do business with, but we decided not to, as we felt that we should not make any endorsements. (However, we would like to mention that we maintain our database with Microsoft Access, which we would be glad to recommend except, of course, we do not make endorsements.)

Next we have our publisher, Osborne McGraw-Hill. By far, the person to whom we owe the most is Scott Rogers, our editor. Technically, Scott's title is "Acquisitions Editor", because his job is to find authors and plan new books. However, he does much more than that: Scott was involved with many aspects of both editions of this book — including content, production, marketing and sales — often on a day-to-day basis. So much so, that at one point we even considered sharing the royalties with him. Fortunately, it took but a moment for cooler heads to prevail and reason to return to her throne. Still, Scott worked hard and he certainly deserves as much credit as is safe to give an editor. (You have to be careful, though. Once

to give an editor. (You have to be careful, though. Once you let editors get above themselves, they let it go to their heads; the publishing industry is full of editors who just love to throw their weight around like Donald Duck.)

After Scott, the people who worked the most with us (and have the gray hair to prove it) are Kelly Barr, the Project Editor, who oversaw the preparation and processing of the book, and Wendy Rinaldi, also a Project Editor, who assisted Kelly with the second edition so that he wouldn't go crazy too quickly. (Actually, Kelly says that because of Wendy's help, he went crazy a lot more slowly than with the first edition.)

For extra special help, including a lot of details that no one else was capable of handling, we thank Ann Wilson and Kelly Vogel, both Editorial Assistants. Ann, in particular, spent many hours working with the final changes as we closed in on the deadline for this edition.

On the production side of the fence, Rick and I would like to thank the talented artists who created the wonderful drawings that you see throughout this book: Leslee Bassin, Helena Worsley, and Marla Shelasky.

As you can see for yourself, Leslee, Marla, and Helena, have real talent and their contribution to this book was an important one. I, for one, am especially grateful, as I had despaired of ever finding artists who had just the right mixture of skill and whimsy to illustrate my jokes. If I had only had these three artists to illustrate my essays in high school, who knows where I might be today.

The other production miracle workers are the ones who worked on the layout of the book (not an easy job): Roberta Steele, Peter Hancik, Jani Beckwith and Rhys Elliott. In addition, Kendal Andersen (Marketing Manager) produced the front and back covers, as well as the entry in the Osborne book catalog.

We also give special thanks to Marcella Hancik (Production Manager), who coordinated the overall production of this book, which was a complex task. As Marcella put it, "Everybody who had hands was working on the book."

Finally, Rick and I would like to thank our Reprint Editor, Daniela Dell'Orco. Here is why she is important. Although we completely revise this book for each edition, we do reprint several times between editions. Each time we reprint, we like to make changes to any technical information that may have changed (such as Internet addresses). This allows us to keep the book as current as possible.

The person at Osborne McGraw-Hill who coordinates all of these changes is Daniela Dell'Orco. As you can imagine, there are a lot of details and there is plenty of room for mistakes. Fortunately, Daniela is The Most Competent Person In The Entire Publishing Industry, so everything works smoothly. In fact, we don't even want to think about what it would be like to make reprint changes without her.

Of course, these people do not run the whole publishing company by themselves. From time to time, they receive small bits of help from a few other people who deserve a mention: Lisa Kissinger (Public Relations and Advertising); Claudia Ramirez (Foreign Rights); Larry Levitsky (Publisher, the big cheese); and Jeff Pepper (Editor-in-Chief, the medium-sized cheese who has since moved to another company).

For extra special delivery service (more important than you might think), I would like to thank the folks at the DHL office in Santa Barbara: Danielle Ritchko, Terry Chlentzos-Keramaris, Sheila Burrows, Christine Abate, Kraig Williamson, Kelan Raph and the manager Monty Howard. Finally, for excellent service in his local area, Rick would like to thank Chuck James of the San Diego DHL office.

— Harley Hahn

Table of Contents

Introduction xxx
The Internet and This Book xxxiii
Acknowledgments xxxv

AGRICULTURE **1**
Advanced Technology Information Network 1
Agricultural Biotechnology Center 1
Agricultural, Flood, Food Supply Information 1
Agricultural Genome Resources 1
Agricultural Mailing List 1
Agricultural Software 1
Aquaculture Network Information Center 2
Bee Biology 2
Beekeeping 2
Beekeeping Web Page 3
Chinchilla Farming 3
Clemson University Forestry and Agriculture Network 3
Commodity Market Reports 3
Cornell Extension Network 3
Farming and Agriculture 4
Florida Agricultural Information Retrieval System 4
Forest Tree Genome Mapping Database 4
Global Information and Early Warning System 4
Global Integrated Pest Management Information System 4
Information Resources Management Division 4
Iowa State University Scholar System 4
Maize Genome Database Project 4
National Cooperative Extension Service 5
National Genetic Resources Program 5
NetVet — Veterinary Resource Line 5
Not Just Cows 5
Nottingham Arabidopsis Stock Centre 5
PENpages 5
RiceGenes 6
Sustainable Agriculture 6
Sustainable Agriculture Information 6
U.S.D.A. Economics and Statistics Gopher 6
U.S.D.A. Extension Service 6

ANARCHY **6**
Anarchist Resources 6
Anarchy Discussion List 6
Anarchy 'N' Explosives 7
Propaganda 7
The Seed 7
Spunk Press 7

ANIMALS AND PETS **7**
Animal Resources 7
Animals in the News 7
Aquaculture Information Center 7
Aquaria Mailing List 7
Aquariums 7
Aquariums and Tropical Fish 8
Bird Keeping 8
Birding 8
Birds 8
Bird-Watching 8
Bird-Watching Archives 8
Bird-Watching Mailing Lists 8
Cats 8
Dog Resources 8
Dogs 9
Equestrian 9
Exotic Pets 9
Ferrets 9
Fish 9
Fish Cam 9
Fleas and Ticks 10
Golden Retrievers 10
Horse Fanciers 10
Kitten Page 10
Pets General Discussion 10
Rabbits 10
Siamese Fighting Fish 10
Specific Domestic Pets 11
Treatment of Animals 11

ANTHROPOLOGY **11**
Aboriginal Studies Archive 11
Evolution of Humans and Primates 11

ARCHAEOLOGY **11**
Archaeological Computing 11
ArchNet 11
Classics and Mediterranean Archaeology 11
Dead Sea Scrolls 12
Egyptian Artifacts 12
National Archaeological Database 12
Research into Artifacts Center for Engineering 12
University of Southampton Department of Archaeology 13

ARCHITECTURE **13**
Alternative Architecture 13
ArchiGopher 13
Architectural Modeling 13
Architectural Visualization 13
Architecture General Discussion 13
Architecture of the Tropics 13
Architronic 14
Association of Collegiate Schools of Architecture 14
Classical Architecture of the Mediterranean 14
Contemporary Architecture in Hong Kong 15
Images of Architecture and Sculpture in Turkey 15
Images of Renaissance and Baroque Architecture 15
Lighthouses in the Eastern U S 15

ART **15**
911 Gallery 15
Aart Gallery 16
Access Art 16
African Art 16
The Anecdote 16
Ansel Adams 16
Art Crimes 16
Art Criticism Forum 17
Art Educational Materials 17
Art Exploration 17
Art Gallery 17
Art History Server 17
Art and Images 17
Art Museums and Exhibits 17
Art Network for Integrated Media Applications 17
Art News 17
Art Nouveau 18
Art on the Net 18
Art Papers 18
Art Projects on the Internet 18
Art Reviews 18
Artistic Expression 18
Artistic Melange 18
Arts Online 18
ArtSource 18
ArtWorld 19
ASCII Cartoons 19
Basic Design in Art and Architecture 19
Beauty for Ashes 19
Book of Kells 19
Brian Eno 19
Cadence Design Systems 19
Carlos Museum of Art 19
Ceramic Arts Discussion List 19
Ceramics Gopher 20
Chesley Bonestell 20
Contemporary Russian Fine Arts Gallery 20
CyberNet's Art Gallery 20
Digital Art Archives 20
Digital Journeys 20
Drux Electronic Art Gallery 21
Electric Gallery 21
Electronic Resources for Art Historians 21
Enfolding Perspectives 21
Expo Exhibit 21
Fine Art Forum 21
Fine Art Pictures 21
FineArt Forum's Directory of Online Resources 21
Graphics 22
Grotesque in Art 22
H.P. Lovecraft Image Gallery 22
Hot Wire 22
International Internet ChainArt Project 22
Japanese Animation 22
Kaleidospace 22
Krannert Art Museum 22
Le Louvre 23
Lexia 23
Mona Lisa 23
Museum of New Zealand 23
Nexus 23
Off the Wall Gallery 24
Online Art References 24
OSU Art Gallery 24
OTIS Project 24
Pixel Pushers 25
Playground Gallery 25

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Prints Database ... 25
RoboGopher ... 25
Rome Reborn ... 25
Rosen Sculpture Exhibition ... 25
Roy Lichtenstein Pre-Pop 1948-1960 ... 25
Sleeping Dog ... 25
Spectrum ... 25
Strange Interactions ... 26
Virtual Art Gallery ... 26

ASTROLOGY ... 26

Astrology Collection ... 26
Astrology Discussion Group ... 26
Astrology Resources ... 26
Horoscopes by Yul and Doc X ... 26
Interactive Astrology Chart ... 27

ASTRONOMY ... 27

Amateur Radio Transmissions ... 27
Astro FTP List ... 27
Astrometry Science Team ... 27
Astronomical Internet Resources ... 27
Astronomical Museum ... 27
Astronomy General Discussion ... 27
Astronomy HyperTextbook ... 28
Astronomy Programs ... 28
Astronomy Servers ... 28
Astrophysics Data System ... 28
Astrotext ... 28
Earth Views ... 28
Flexible Image Transport System (FITS) ... 28
HEASARC Astronomical Browser ... 28
Hubble Telescope ... 28
Institutes of Astronomy ... 28
Mars Atlas ... 29
National Optical Astronomy Observatories ... 29
Observatories ... 29
Planetariums ... 29
Planetary Tour Guide ... 29
Planets ... 29
Planets and the Solar System ... 29
Shoemaker-Levy Comet ... 29
Sloan Digital Sky Survey (SDSS) ... 30
Space Telescope Science Institute ... 30
Starlink ... 30
Star*s Family ... 30
Strasbourg Astronomical Data Center ... 30
Sunspots ... 30
Views of the Solar System ... 30
WebStars: Astrophysics in Cyberspace ... 30

AUTOMOTIVE: CARS ... 31

Air-Cooled Volkswagens ... 31
Alfa Romeo Home Page ... 31
Antique Cars ... 31
Audi ... 31
Auto Racing ... 31
Automobile General Discussion Groups ... 31
Beemer List ... 31
BMW Information ... 32
British Cars ... 32
Camaros and Firebirds ... 32
Car Audio ... 32
Corvette ... 32
Datsun Roadsters ... 32
Datsun Z Car ... 32
Dodge Stealth/Mitsubishi 3000GT ... 33
Driving ... 33
Driving in California ... 33
Driving Schools ... 33
Electric Vehicles ... 33
Exotic Cars ... 33
Ford Mustangs ... 33
High Performance Cars ... 33
Hot Rods ... 34
Kit Cars ... 34
Lancia ... 34
Offroad Driving ... 34
Porsche ... 34
Porschephiles Home Page ... 34
Racing ... 34
RoverWeb ... 35
Saturn ... 35
Solar Cars ... 35
Solar Vehicles at UC Berkeley ... 35
Solar Vehicles at the University of Michigan ... 35
Team.Net Automotive Information Archives ... 35
Technical Automotive Discussion ... 35
Toyota ... 35
Volkswagen ... 36
Volkswagen Names ... 36

AUTOMOTIVE: MOTORCYCLES ... 36

Motorcycle Archive ... 36
Motorcycle Design ... 36
Motorcycle Racing ... 36
Motorcycle Reviews ... 36
Motorcycles ... 36

AVIATION ... 37

Aerospace Engineering ... 37
Aircraft Discussion Forum ... 37
Aircraft Group Ownership ... 37
Aircraft Images ... 37
Airline and Airliner Discussion List ... 37
Airline Travel ... 37
Airport Codes ... 37
Aviation Archives ... 38
Aviation Enthusiast Corner ... 38
Aviation General Discussion ... 38
Aviation Gopher ... 38
Aviation Technology ... 38
Canadian Airlines International ... 38
Dryden Photo Archive ... 39
DUAT ... 39
Flight Planning ... 39
Flying ... 39
Flying and Aviation ... 39
Gliding ... 39
Hang Gliding Server ... 39
Instrument Flight Rules ... 39
Learning to Fly ... 39
McDonnell Douglas Aerospace ... 40
Military Aircraft ... 40
MIT Soaring Association ... 40
NASA Aviation Server ... 40
News About the Aviation and Aerospace Industries ... 40
Owning Airplanes ... 40
Piloting ... 40
Products for Pilots ... 40
Q & A About Aviation ... 41
Stories about Flying ... 41
Ultralight Flying ... 41
Upcoming Aviation Events ... 41
Xpilot Game ... 41

BBSs (BULLETIN BOARD SYSTEMS) ... 42

Auggie BBS ... 42
BBS Access via Gopher ... 42
BBS Acronyms ... 42
BBS General Discussion ... 42
BBS Information ... 42
BBS Lists ... 42
BBS Programs ... 43
BBSs Around the World ... 43
Cetys-BBS ... 43
Citadel ... 43
Csb/Sju BBS ... 43
CueCosy ... 43
Cybernet BBS ... 43
Doors ... 44
DUBBS ... 44
Eagles' Nest BBS ... 44
Endless Forest BBS ... 44
European Southern Observatory Bulletin Board ... 44
Foothills Multiuser Chat ... 44
Government-Sponsored Bulletin Boards ... 44
ISCA BBS ... 45
Launchpad BBS ... 45
Monochrome ... 45
NCTU CIS BBS ... 45
OuluBox ... 45
Powertech BBS ... 45
Prism Hotel BBS ... 46
Quartz BBS ... 46
Radford University Computer Science Club BBS ... 46
Skynet BBS ... 46
Softwords COSY ... 46
Sunset BBS ... 46
Sysop Information ... 46
Unix and BBSs ... 46
UTBBS ... 46
Web BBS List ... 46

BIOLOGY ... 47

Ageing ... 47
American Type Culture Collection ... 47
Animal Behavior ... 47
Arabidopsis Project ... 47
BioBox Wonder World ... 47
Biochemistry ... 47
Biochemistry Graphics Room at Aberdeen University ... 48
BioData Cyberspace Launching Pad ... 48
Biodiversity ... 48
Bioethics ... 48
Bioinformatics Resource Gopher ... 48
Biological Databases ... 48
Biological Sciences Conferences ... 48
Biological Scientist's Network Guide ... 48
Biologist's Guide to Internet Resources ... 49
Biology and Information Theory ... 49
Biology Announcements ... 49
Biology General Discussion ... 49
Biology Information Theory ... 49
Biology Job Opportunities ... 49
Biology Journals ... 49
Biology Newsletter ... 50
Biology Resources ... 50
Biology Software and Archives ... 50
Biology Software Search ... 50
Biomechanics ... 50
BioMOO ... 51
Biosphere and Ecology ... 51
Biotechnology ... 51
Bird Studies in the Australian ... 51
National Botanic Gardens ... 51
Brazilian Tropical Databases ... 51
Catalog of Marine Fish and Invertebrates ... 51
Cell Biology ... 51
Chromosome 22 ... 52
Collaborative Clickable Biology ... 52
Computers and Mathematics ... 52
Conservation Biology ... 52
Drosophila ... 52
EMBL Nucleic Acid Database ... 52

Entomology at Colorado State University ... 52
European Molecular Biology Net ... 52
Evolution of Genes and Proteins ... 52
Frog Dissection Kit ... 53
Funding and Grants ... 53
Fungi ... 53
G Protein-Coupled Receptor Database ... 53
GenBank Database ... 53
Genetic Linkage ... 53
Genetics Resources ... 53
GenomeNet ... 54
Genome Research at Harvard Biological Laboratories ... 54
Globin Gene Server ... 54
Human Genome Project ... 54
Immunology ... 54
Jackson Laboratory ... 54
Japan Animal Genome Database ... 54
Kinetics and Thermodynamics ... 54
Mapping Chromosomes ... 54
Methods and Reagents ... 54
Microbiology at the Technical University of Denmark ... 55
Molecular Biology Laboratory ... 55
Molecular Biology Network ... 55
Molecular Biology of HIV ... 55
Molecular Modeling ... 55
Motif BioInformatics Server ... 55
Mouse Biology ... 55
Neuroscience ... 55
Nitrogen Fixation ... 55
Population Biology ... 55
Primates ... 56
Protein ... 56
Protein Crystallography ... 56
Protein Databases ... 56
Randomly Amplified Polymorphic DNA ... 56
Related Sciences ... 56
Salk Institute for Biological Studies ... 56
Society for Neuroscience ... 56
Software ... 57
Taxacom FTP Server ... 57
Taxacom Listserv Lists ... 57
Tropical Biology ... 57
University of Minnesota Medical School ... 57
Virology ... 57
Virtual Genome Center ... 57
Who's Who in Biology ... 58
Whole Frog Project ... 58
Women in Biology ... 58
Yale Peabody Museum of Natural History ... 58
Yeast ... 58
Zebrafish Information Server ... 58

BIZARRE ... 58

Aleister Crowley ... 58
Anonymity ... 58
Arcana Arcanorum ... 59
biancaTroll's Smut Shack ... 59
Bigfoot ... 59
Bizarre General Discussion ... 59
Bizarre Literature ... 59
Callahan's Bar ... 59
Cesium ... 60
Church of the SubGenius ... 60
Complaining ... 60
Cryonics ... 60
Cult of the Dead Cow ... 61
Dark Side of the Net ... 61
Devilbunnies ... 61
Discord and Destruction ... 61
Explosions and Blowing Things Up ... 61
Fiction Therapy Group ... 61
Furry Animals ... 62
Future Culture Digest Archives ... 62
Gateway to Darkness ... 62
Geeks and Nerds ... 62
Gross and Disgusting ... 63
Happy Birthday ... 63
High Weirdness ... 63
HyperDiscordia ... 63
Jihad to Destroy Barney on the Web ... 63
Lemurs ... 63
Lips ... 63
Ludvigsen Residence — A Family Server ... 63
Lunch Servers ... 64
Mkzdk ... 64
Naked Guy ... 64
Necromicon ... 64
Negative Emotions ... 64
Pantyhose ... 64
Paving the Earth ... 64
Porter List ... 65
Positive Emotions ... 65
Profanity and Insult Server ... 65
Roadkill R Us ... 65
Roommates from Hell ... 65
Rumors ... 65
Santa Claus ... 65
Schizophrenia Nervosa ... 65
Social Deviants ... 66
Somerville Stories ... 66
Stories by RICHH ... 66
Strange Rantings ... 66
Strange Tales ... 66
Swedish Chef ... 66
Talk.Bizarre Web Page Thing ... 67
Tapestry ... 67
Tasteless Tales ... 67
Tasteless Topics ... 67
Three-Letter Acronyms ... 67
Unplastic News ... 67
Vampire Chat Channel ... 67

BOATING AND SAILING ... 67

Boating Discussion Groups ... 67
Boating Web Server ... 67
Decavitator ... 67
Marine Signal Flags ... 68
Paddling Web Server ... 68
River and Rowing Museum ... 68
Sailing ... 68
Sailing Laser Boats ... 68
Sailing Mailing List ... 68
Sailing Page ... 68

BOOKS ... 68

Alternative History ... 68
Book FAQs and Info ... 69
Book and Publishing News ... 69
Book Reviews ... 69
Book Stacks Unlimited ... 69
Books General Discussion ... 69
Books Online ... 69
Bookstore Reviews ... 69
Buying and Selling Books ... 69
Computer Books ... 70
Doomsday Brunette ... 70
Electronic Books at Wiretap ... 70
Etext Resources ... 70
Internet Book Information Center ... 70
Internet Books ... 71
Internet Books List ... 71
Microsoft Windows 3.1 Book List ... 71
O'Reilly & Associates ... 71
O'Reilly Book Samples ... 71
Online Book Initiative ... 71
Online Bookstore ... 72
Pulp Fiction ... 72
Rare Books ... 72
Reviews of Children's Books ... 72
Roswell Electronic Computer Bookstore ... 72
Science Fiction Reviews ... 72
Technical Books ... 73
Travels with Samantha ... 73
Unix Book Lists ... 73
Unofficial Internet Book List ... 73

BOTANY ... 73

Agroforestry ... 73
Australian National Botanic Gardens ... 73
Botanical Gardens at the University of Delaware ... 73
Botany Database ... 74
Bromeliaceae ... 74
Carnivorous Plants ... 74
Chlamydomonas ... 74
Endangered Australian Flora and Fauna ... 74
International Organization of Paleobotany ... 74
Mammal Database ... 74
Missouri Botanical Garden ... 74
Photosynthesis ... 75
Plant Biology ... 75
Smithsonian Botany Gopher ... 75
Smithsonian Vertebrate Zoology Gopher ... 75

BUSINESS AND FINANCE ... 75

Advertising and Marketing ... 75
American Risk and Insurance Association ... 75
Asia Online ... 75
Asia Pacific Business and Marketing Resources ... 75
Banks and Financial Industries News ... 76
Business and Commerce ... 76
Business and Industry ... 76
Business Archives ... 76
Business Conferences ... 76
Business Electronic Mail Addresses ... 76
Business Information Resources ... 76
Business Information Server ... 76
Business News ... 77
Business Statistics ... 77
Businesses on the Internet ... 77
BusinessWeb ... 77
Case Online Information System ... 77
China Import/Export News ... 77
Cogeneration ... 77
Commerce Business Daily ... 77
Commercial Use of the Internet ... 77
Commodities ... 78
Corporate Finance News ... 78
Currency Converter ... 78
Earnings and Dividend Reports ... 78
Eastern Europe Trade Leads ... 78
Eastern European Business Network ... 78
EBB and Agency Information ... 78
Economic Indicators ... 78
Economy ... 78
EDGAR Mutual Funds ... 79
Entrepreneurs ... 79
Entrepreneurs on the Web ... 79
European Commission Host Organization ... 79
Export Guide ... 79
Feature Stories ... 79
Federal Information Exchange ... 80

FinanceNet 80
Financial Executive Journal 80
Financial Ratios for Manufacturing Corporations 80
Goethe Investment Heimatseite 80
Hot News 80
Income Taxation Information 80
Industry Statistics 80
Information Technology Laboratory 80
International Business Practices Guide 81
International Market Insight Reports 81
Internet Better Business Bureau 81
Internet Business Center 81
Investments 81
Japanese Business Studies 81
Labor 82
Leasing a Web Server 82
Legal News 82
Libraries 82
Mail Addresses of Ukraine Businesses 82
Mergers and Acquisitions 82
Mortgage Calculator 82
Multilevel Marketing 83
Mutual Fund Price Movement Chart 83
National Trade Data Bank 83
NETworth 83
New Products and Services 83
Non-Profit Organizations 83
Office Automation 83
Penn World Trade Tables 84
Personal Finance 84
Personal Investing and Finance News 84
Price and Volume Charts 84
QuoteCom 84
RISKWeb 84
Savage Archive 84
Security APL Quote Server 84
Small Business Administration 84
Standard & Poors 500 Index 84
Stock Market 85
Stock Market Data 85
Stock Market Discussion Groups 85
Stock Market Report 85
Stock Market Simulations 85
StrategyWeb 85
Taxing Times 85
Technical Aspects 86
Top News 86
Trademark Act of 1946 86
Trademarks 86
Vienna Stock Exchange 86
World Bank 86
World of Coca-Cola 86

BUYING AND SELLING 86

Anime 86
Bicycles 86
Bootleg Music 87
Computers 87
MarketBase Online Catalog 87
Marketplace, Buy and Sell 87
Pinball and Video Game Machine Auctions 87
Satellite TV Equipment 87
Science Fiction 87
Selling on IRC 87
Video Games 87

CANADA 88

British Columbia Regional Information 88
British Columbia Tourism Information 88
British Columbian Web Servers 88
Canadian Business Information 88
Canadian Discussion 88
Canadian Geographical Web Server 88
Canadian Government Documents 88
Canadian Government Gophers 89
Canadian History 89
Canadian Investment 89
Canadian Issues Forum 89
Canadian Music 89
Canadian News 89
Canadian Resource Page 89
Canadian Stock Archives 89
Canadian Web Master Index 90
Censorship and Intellectual Freedom in Canada 90
Charlottetown Agreement 90
Culture 90
Halifax Nova Scotia 90
Maritimes Web Servers 90
Official Touring Guide to New Brunswick 91
Ottawa 91
Prince Edward Island 91
Statistics Canada Daily Reports 91
Tour Canada Without Leaving Your Desk 91
Web Servers in Quebec 91

CHEMISTRY 91

American Chemical Society 91
Center for Atmospheric Science 91
Chemical Engineering 92
Chemical Engineering List 92
Chemical Information Sources 92
Chemical Physics Preprint Database 92
Chemistry Art Gallery 92
Chemistry in Israel 92
Chemistry Information 93
Chemistry Talk 93
Chemistry Telementoring 93
College of Chemistry at Berkeley 93
Computational Chemistry List 94
Hydrogen Bond Calculation Program 94
Hyperactive Molecules 94
Institute for Molecular Science 94
Organometallic Chemistry 94
Periodic Table of the Elements 94
Periodic Table of the Elements (Online) 94
Periodic Table in Hypertext Format 95
Polymer Science and Technology 95
Ponder Lab Web Server 95
Short-Lived Reactive Pollutants 95
Virtual Library of Chemistry 95
WebElements 95
World Association of Theoretical Organic Chemists 95

COMIC BOOKS 96

Alternative Comics 96
Comic Book Mailing List 96
Comics Archives 96
Comics Marketplace 96
Comics Newsgroups 96
Comics Resource Center 96
More Comics 96
Superhero Comic Writing 97
X-Men 97

COMPUTERS: COMMODORE 98

Amiga Archives 98
Amiga Information Resources 98
Amiga Mosaic 98
Amiga Pictures 98
Amiga Sounds 98
Amiga Talk 98
Amiga Telecom 98
Amiga Unix 98
Commodore 64/128 Archive 99
Commodore-64 Chat 99

COMPUTERS: COMPANIES 99

BTG 99
Celerity Systems 99
Digital Equipment Corporation 99
Hewlett-Packard 99
Microsoft Archives 99
Microsoft Gopher Server 99
Microsoft Research 99
NEC 100
Santa Cruz Operation 100
Sun Microsystems 100

COMPUTERS: CULTURE 100

Art of Technology Digest 100
Byte Bandit 100
Code of the Geeks 100
Computer Professionals for Social Responsibility 101
Computer Underground Digest 101
Computer-Generated Writing 101
Computers and Academic Freedom 102
Concerning Hackers... 102
Cyberspace 102
Ethics 102
Future Culture 102
Hackers 103
IBM Songbook 103
League for Programming Freedom/Free Software Foundation 103
Nerd Page 103
Social Organization of Computer Underground 103
WebWorld 103
Women and Computer Science 104

COMPUTERS: GRAPHICS 104

Acid Warp 104
Annotated Scientific Visualization Weblet Bibliography 104
Computer Graphics Bibliography 104
Computer Graphics Information 104
Cool Demos 105
Figlet Fonts 105
Fract Int 105
Fractal Images 105
Fractal Movie Archive 105
Fractals 105
Fractals and Chaos 105
Gallery of Images from Silicon Graphics 106
Genetic Movies 106
Geometry Sender 106
Hyperbolic Movies 106
Hyperbolic Tiles 106
Icon Browser 106
Image and Audio File Formats 107
Internet Font Browser 107
JPEG File Viewer for Macintosh 107
JPEG File Viewer for Windows 107
Macintosh Graphics 107
Mandelbrot Explorer 107
Mosaic Gizmos 108
Persistence of Vision 108
Pixel-Planes Graphics Machine 108
Radiance *108*
Raytrace Graphics 108
Rayshade 109
Rob's Multimedia Lab 109
Silicon Graphics Gallery 109
Silicon Graphics Silicon Surf 109
Text-based Animation 109

Thant's Animations Index 109
Tomservo Raytraced Images 109
Virtual Reality Markup Language 110
VuSystem 110
Web Page Graphics and Icons 110
WebOOGL Home Page 110

COMPUTERS: HARDWARE 110

386BSD Unix Supplements for Compaq Computers 110
Apple IIgs 110
Compaq Fixes and Patches 110
Computer Information 110
EPROM Models and Manufacturers List 111
Hard Disk Guide 111
Hardware Architectures 111
Hardware News 111
Hardware Technical Material 111
How Computers Work 111
Microprocessor Instruction Set Cards 111
Modems 112
Parallel Computing Archive 112
PC and Macintosh Guides 112
PC Hardware 112
Performance Database Server 112
Portable Computer Information 112
Powerful Computer List 113
Sinclair ZX-Spectrum Web server 113
Supercomputer Documentation 113
Transputer Archive 113
Troubleshooting Your PC 113
Ultrasound 113
Vaxbook 113

COMPUTERS: LITERATURE 113

Alice in Unix Land 113
Amateur Computerist 114
Artificial Intelligence Journal 114
BBS Issues 114
Computer Emergency Response Team 114
Computer Science Technical Papers Archive 115
Computer Science Technical Reports 115
Computer Underground 115
Computer Virus Technical Information 115
Computing Across America 115
Computing Dictionary 115
Computing Newsletters 116
Desktop Publishing 116
EFF's Guide to the Internet 116
Hacker Crackdown 117
Hacker's Dictionary 117
Hacker's Technical Journals 117
How to Steal Code 117
HPCwire 117
Internet Bibliography 117
Internet Computer Index 118
Internet Overview 118
Introduction to HTML 118
IRC Thesis 118
Kermit Manual 118
LAN Management 118
Logintaka 118
Network Bibliography 119
Network Newsletters 119
Networking Computers 119
PC Downloading 119
PC/MS-DOS: The Essentials 119
Tao of Programming 119
Technical Reports Online 119
Tipsheet 119
Zen and the Art of the Internet 119

COMPUTERS: MACINTOSH 120

Buying and Selling Macs 120
Internet Macintosh Resources 120
Mac Hardware 120
MacinTalk 120
Macintosh Announcements 121
Macintosh General Discussion 121
Macintosh Index 121
Macintosh News 121
Macintosh Resources 121
Macintosh in Science and Technology 121
Macintosh User's Group 121
Macintosh User's Group at Arkansas College 121
Macintosh User's Group at Johns Hopkins 121
Resources for Apple Users 121
Source Code for Macintosh 122
TidBITS 122

COMPUTERS: MULTIMEDIA 122

Audio Slideshow Guide 122
Illustrated Audio Slide Show Technology 122
Image Processing with Live Video Sources 122
MPEG Animation Shows 122
MPEG Movie Archive 123
MPEG Movies 123
MPEG Movies from JRC 123
Multimedia in Education 123
QuickTime Movies 123
Video Webalog 123

COMPUTERS: NETWORKS 123

Bibliography of Internetworking Information 123
Bitnet Network 123
Campus Computing Newsletter Editors 124
Cisco Information Archive 124
Computer and Networking Column 124
Cyberspace Communications 124
Data Communications and Networking Links 124
Datagram 124
European Academic Research Network 124
FORTHnet 125
High Performance Computing Gopher 125
Inter-Network Mail Guide 125
Mail Gateway Guide 125
Managing Networked Information 125
Matrix News 125
Microsoft Windows Networking Environment 125
National Information Infrastructure Agenda 126
Network Hardware Suppliers List 126
Network Maps 126
Network Politics 126
Networking Articles 127
NeuroNet 127
OS/2 Networking Environment 127
Rockwell Network Systems 127
TCP/IP Introduction 127
Vnet Outdial Servers 127
WWPing 127
Z39.50 Resources 127

COMPUTERS: PCs 128

Building PC Hardware 128
IBM News 128
Magazine 128
PC Catalog 128
PC Clones 128
PC General Discussion 128
PC Hardware 128
PC Hardware Introduction 129
PC Index 129
PC Lube and Tune 129
PowerPC News 129

COMPUTERS: PICTURES 129

alt.binaries.pictures Image Server 129
Cartoon Pictures 129
Chinese GIF Collection 129
Clip Art 130
Digital Picture Archive on the 17th Floor 130
Fantasy Images 130
Fine Art 130
Fractals 130
GIF Image Files 130
Girls, Girls, Girls 130
Icons 130
Image and Movie Archives 131
Japanese Animation Images 131
JPEG Files 131
Kandinsky Image Archive 131
Lighthouses 131
Mandelbrot Images 132
Miscellaneous Pictures 132
Picture-Related Files FTP Site List 132
Picture Viewing Software 132
Satellite Images of Europe 132
Sex Pictures 132
Shuttle and Satellite Images 133
Smithsonian Photographs 133
Supermodels 133
Tasteless Pictures 133
Washington, D.C. 133

COMPUTERS: PROGRAMMING ... 133

Ada 133
Basic Programming Language 133
C Programs 133
C++ Frequently Asked Questions 134
CCMD Source Code in C 134
CompuServe B File Transfer Protocol 134
CPUs and Assembly Language 134
Free Language Tools 134
FSP 134
Gnuplot Tutorial 134
Gopher and Utilities for VMS 135
Hello World! 135
Interactive Fiction Game Programming 135
Language FAQs 135
Language List 135
Linear Programming Answers 135
Nonlinear Programming Facts 135
Obfuscated C Code 135
Object-Oriented Programming Using C++ 136
OS/2 Programming 136
Parallel Programming Laboratory 136
Pascal to C Translator 136
Programming Examples 136
Programming for Microsoft Windows 136
Programming General Discussion 136
Programming in Ada 136
Programming Language Material 137
Programming Languages 137
Ravel 137
TCP/IP Development Tools 137
Turbo Vision 137
Twisted Code 137
X Window Software Index 137

COMPUTERS: SECURITY and PRIVACY 138
Computer Security Gopher 138
Computer Security Sites 138
Computers and the Law 138
Hacker Sites on the Net 138
Incident Response Teams 138
Internet Security Firewalls 138
Network and Computer Security Reference Index 139
PGP Keyservers 139
Privacy and Anonymity Issues 139
Privacy Forum Digest 139
RIPEM Resources 139
RSA Data Security, Inc. 139
Security Resources 139
Security Web 140
Stalking the Wily Hacker 140
Unix Security 140
Unix Security Tutorial 140
COMPUTERS: SOUNDS 140
AsTeR 140
Index of Sounds 140
Macintosh Sounds 140
MIDI Archives 140
Miscellaneous Sounds 141
Movies and Television 141
Music 141
NeXT Sounds 141
Number Synthesizer 141
PC Sounds 141
Rplay 141
Sex Sounds 141
Sound Archives 142
Sound Cards 142
Sound Tools 142
Sound Utility Programs 142
Star Trek Sounds 142
Sun Sound Files 142
COMPUTERS: TECHNOLOGY ... 143
Artificial Life 143
Chinese Computing and Word Processing 143
Complex Systems Resources 143
Computer Aided Detector Design 143
Computer Lore 143
Computer Science Conferences 143
Computer Speech 143
Computer Standards 143
Computer Viruses 144
Computers and Technology in the Home 144
Cybernetics 144
Hebrew Users Group 144
Human and Computer Interaction 144
Japanese Research 144
National Center for Supercomputing Applications 144
New and Trendy Protocols 144
SFI BBS 144
Speech Generator 145
Techne 145
Technology Magazines 145
Upcoming Events in the Computer Industry 145
Virtual Reality 145
VuSystem and VuNet Demonstrations 145
Wanderers, Robots, and Spiders 146
Wombat Dictionaries 146
Xtoys Gallery 146
CONSUMER INFORMATION 146
California Yellow Pages 146
Computer and Communication Companies 146
Consumer Information 146
Consumer Issues 146
Consumer News 146
Credit Information 147
Dell Web Server 147
Downtown Anywhere 147
Electronic Mail Directory of Companies 147
Fair Credit Reporting Act 147
FaxGate 147
FaxLinq 147
Faxnet 148
Free Offers 148
Houses 148
Infinite Illusions Home Page 149
Internet Consultants Directory 149
Internet Mall 149
Internet Services Directory 149
Travel Marketplace 149
Xerox Corporation 149
Your Complete Guide to Credit 149
CRAFTS 150
Arts and Crafts Information Service 150
Craft Resources 150
Craft Suppliers 150
Crafting on the Internet 150
Crafts 150
Jewelry 150
Needlework 150
Yarn 151
CRYPTOGRAPHY 151
All About Cryptography 151
Crypto Glossary 151
Cryptography General Discussion 151
Cryptography and the Government 151
Cryptography Sources on the Internet 151
Cryptography, PGP, and Your Privacy 151
Cypherpunks 152
PGP Encryption/Decryption Program 152
PGPShell 152
Public Key Exchange 153
Quadralay Cryptography Archive 153
Stego 153
CYBERPUNK 153
Agrippa: A Book of the Dead 153
Bruce Sterling Articles 153
Cyberculture 154
Cyberkind 154
Cybermind 154
Cyberpunk News 154
Cyberpunk Reading List 154
Future Culture and Cyberpunks Mailing List 154
DANCE 155
Ballet and Modern Dance 155
Dance Archives and Discussion 155
Dance General Discussion 155
Dance Resources on the Internet 155
Folk and Traditional Dance Mailing List 155
Folk Dancing 155
Scottish Dancing 156
Tango 156
UK-Dance 156
Western Square Dancing 156
DISABILITIES 156
Americans with Disabilities Act 156
Blind News Digest 157
Blind and Visually Impaired Computer Usage 157
Deaf Magazine 157
Deaf-Blind Discussion List 157
Deafness 157
Developmentally Disabled and Autism 157
Disability Aid 157
Disability Information 158
Disability Information Archive 159
Disabled Computing 159
Disabled Student Services in Higher Education 159
Do-It Disability Program 159
Fathers of Children with Disabilities 159
Handicap BBS Lists 159
Handicap Issues 159
Mentally Retarded Deaf 159
Reading Disabilities 160
SAIDIE: The Intellectual Disability Network 160
Software and Information for the Handicapped 160
DRAMA 160
Dramatic Exchange 160
Hollyweb Film Guide 160
Musicals 160
Opera Schedule Server 161
Play Scripts 161
Shakespeare Discussion 161
Shakespeare Glossary 161
Stagecraft 161
Theater 161
Theater Plays and Musicals 162
Theatre Home Page 162
DRUGS 162
Anti War-on-Drugs Activist List 162
Blotter Art Collection 162
Caffeine 162
Drug Abuse Education Information and Research 162
Drug Chemistry and Synthesis 163
Drug Culture 163
Drug Information Resources on the Net 163
Drug News 163
Drug Talk 163
Drug Use History 163
Drug Web Servers 163
Ecstasy 164
General Drug Information 164
Hints for Marijuana Growers 164
Illegal Recreational Drug Information 164
LSD: My Problem Child 164
Marijuana Discussion 164
Marijuana Fiction 164
Marijuana Usage 165
Medical Information About Marijuana 165
Neuropharmacological Anarchy 165
News About Drugs 165
Nitrous Oxide FAQ 165
Nitrous Oxide Synthesis 165
Nootropics (Intelligence-Enhancing Drugs) 165
Pharmacological Cornucopia 166
PiHKAL 166
Politics and Drugs 166
Politics of Contraband 166
Psychoactive Drugs 166
Recreational Drugs 166
EARTH SCIENCE 167
Earth Observation System 167
Earth Science Data Directory 167

Earth Sciences Resources 167
Planet Earth Images and Movies 167
Polar Research 167
Smithsonian Natural History Gopher 168
xearth Graphics Software 168

ECONOMICS 168

British Economics Research 168
Community Economic Development 168
Computational Economics 169
Directory of Economists 169
Economic Bulletin Board 170
Economic Development 170
Economic Problems in Less Developed Countries 170
Economic Resources 171
Economics Discussion 171
Economics Gopher 171
Economics Resources on the Web 171
Economies of the Caribbean Basin 171
Economist Resources 171
Employment Statistics 172
Foreign Trade 172
General Agreement on Tariffs and Trade (GATT) 172
Gross State Product Tables 172
Marketing 172
Monetary Statistics 172
Morningstar Spotlight 173
Mutual Fund Market Manager 173
Mutual Fund Quotations 173
Mutual Funds Phone Numbers 173
National Income and Products Accounts 173
Press Releases from U.S. Trade Representative 173
Price and Productivity Statistics 173
Regional Economic Statistics 173
Russian Economics 174
Securities and Exchange Commission's Database 174
Summaries of Current Economic Conditions 174
Thoughts on Economics 174
U.S. Economic Statistics 174
Working Paper Archive 174

EDUCATION 174

Academic Technology 174
Adult Education and Literacy 175
Adult Literacy 175
AERA SIG/ENET Discussion 175
Alternative Approaches to Learning 175
Armadillo 175
Association for Experiential Education 176
Biology Education 176
Commonwealth of Learning 176
Computer Networking 176
Computers in Education 176
Curriculum Materials and Ideas 176
Daily Report Card 177
Education Mailing Lists 177
Education Policy 177
Educational Listserv Lists 177
Educational Newsgroups 177
Educational Reform 178
EDUPAGE 178
Eisenhower National Clearinghouse 178
Engines for Education 178
Global Schoolhouse Project 178
GNA Virtual Library 179
Grants, Scholarships, and Funding 179
Health Sciences Libraries Consortium 180
Home School Discussion 180
Home School Resources 180
IBM Kiosk for Education 180
Incomplete Guide to the Internet 180
Indigenous Peoples 180
Institutional Communications Network 180
JANET Network 181
K12 Internet School Sites 181
K12 Resources 181
Latin Language Textbook 181
Math Information Server 181
Media in Education 181
MicroMUSE Learning Community 181
Ministry of Education in Singapore 181
Multilingual Classrooms 181
National Education BBS 182
National Referral Center Master File 182
New Patterns in Education 182
Newbie Newz 182
Newton 182
Online Journal of Education and Communication 182
Perkins Vocational and Applied Technology Education 182
Project Kaleidoscope 182
Quality of Education 182
Scholarly Conferences 183
School Nurse Network 183
Schoolnet 183
Schoolnet Resource Manual 183
Schoolnet's News Flash 183
Schools on the Internet 183
Science Education 183
Shadowy Science Projects 184
Simultaneous Projects 184
Talented and Gifted 184
Teaching and Learning with the Web 184
Technet 184
Technology and Information Education Services 184
Technology in the Classroom 184
U.S. Department of Education 184
U.S. National K12 Gopher 185
Vocational Education 185

EDUCATION: COLLEGES AND UNIVERSITIES 185

Academic Electronic Mail Addresses 185
Apple Computer Higher Education Gopher 185
Brown University Alumni 185
Campus Climate 185
Campus Parking 185
Campus-Wide Information Systems 185
Community Colleges 186
Diversity University 186
Globewide Network Academy 186
Graduate Students 186
Higher Education Resources and Opportunities 186
Maricopa Center for Learning and Instruction (MCLI) 186
Minority College and University Information 186
Research and Advanced Study: Canada, Italy 187
Student Financial Aid Administration 187
Theta Xi Fraternity 187
Two-Year Colleges 187
U.S. Colleges 187
Ultralab — Learning Technology Research Center 188
University and College Education 188
Usenet University 188
Virtual Online University 188

EDUCATION: ELEMENTARY 188

Arbor Heights School 188
Kidcafe 188
Kidlink 188
Plugged In 188

EDUCATION: STUDENTS 189

Academic Advice 189
Academic Magazines 189
Exploratorium 189
Math Problem-Solving Skills 189
Scavenger Hunt 190
School Humor 190
Student Governments 191

EDUCATION: TEACHERS 191

AskERIC 191
Best of K12 191
Business School Faculty 191
Catalyst for College Educators 191
CD-ROM Activities 191
Chronicle of Higher Education 191
College and University Teaching Assistants 192
Dead Teacher's Society 192
Discovery Communications Online Listings 192
Education Net 192
Educational Administration 192
Educational K12 Resources 192
Effectiveness of Teachers 192
Electronic Book Discussion 192
Explorer 192
Globe and Mail 193
KIDSPHERE 193
Kindergarten to Grade 6 Corner 193
Lesson Plans 193
Neat Educational Tricks 193
Physics Teachers 193
Reading Room 194
Satellite Communications for Learning Associated 194
Special Education 194
Teaching English as a Second Language 194
Teaching Health and Physical Education 195
Worldwide Education Net 195

ELECTRONICS 195

Circuit Analysis Discussion List 195
Computer-Aided Design 195
Electronic Design and Development 195
Electronics Repair 196
English-Chinese Electronics Terms 196
HP Calculator BBS 196
IEEE Gopher 196

EMERGENCY AND DISASTER ... 196

California Emergency Services 196
Disaster Management 197
Disaster Situation and Status Reports 197
Earthquakes in Alaska 197
Earthquakes in California 197
Emergency Medical Services 197
Emergency Preparedness Information eXchange (EPIX) *198*
Fire Safety Tips 198
HungerWeb 198
Newcastle Earthquake 198
ReliefNet 198

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