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29. Aristotle, *Politics*, VII, v.
30. Rick E. Bruner, "Info Explosion Extends to the Former East Block," *The Boston Globe*, Monday, August 1, 1994, pp. 18–19.
31. For one view of how this might work, see D. Elgin, "Conscious Democracy Through Electronic Town Meetings," *Whole Earth Review* (Summer 1991): 28–29.
32. Recall that William Gibson's cyberspace novels postulate head implants as interface devices. When characters offend against the power structure, they risk getting their brains fried. Any kind of force-feedback device also has the potential to inflict violence.
33. This may become a standing threat and standard penalty, just as transportation to Australia became a standard penalty in the eighteenth-century British legal system.
34. An occasional criticism of online public spaces is that they represent a wimpy cop-out — a withdrawal from full-blooded engagement in real urban places with all their risks and dangers. (It's a line that seems particularly popular with New Yorkers.) I'm not so sure. There are few places nastier than the site of an all-out flame war.
35. Roger A. Clarke, "Information Technology and Dataveillance," *Communications of the ACM* 31: 5 (May 1988): 498–512.
36. On the methods of TRW and other major credit bureaus, see Rothfeder, "The Secret Sharers," in *Privacy for Sale*, pp. 31–62.
37. For development of this scenario, see Gandy, *The Panoptic Sort*.

Though there is lots of relevant and interesting material available in print, the best way to pursue further reading on the topics discussed here is to surf around in cyberspace itself. To provide a convenient starting point, an online version of this book is available on the World Wide Web. This incorporates numerous links from the text to other sites and resources, and it has online forums for further discussion of the issues. You can find it at:

http://www-mitpress.mit.edu/City_of_Bits/

In addition, the following classified list suggests some useful World Wide Web sites, Gopher sites, FTP sites, and electronic mail addresses.

Sites in cyberspace do not live forever, so this list will eventually become — like the traces of a city that is no longer inhabited — a piece of digital

S U R F S I T E S

archaeology. Link rot will gradually set in; many of the listed addresses will cease to exist, and much of the online material will be deleted or lost. But even if you are a latecomer, and find that the zone of cyberspace mapped here is mostly a ruin when you reach it, you should still find that it gives at least a few entry points to active areas.

The information to be found out there is of very variable quality. *Caveat surfer!*

C O M M E R C E

Business Gateways.

<http://actlab.rtf.utexas.edu/gateways/biz.html>

CommerceNet Home Page.

<http://www.commerce.net/>

Commercial Directories on the Web.

<http://works.zilker.net/com-http.html>

Commercial Sites.

<http://gopher.econ.lsa.umich.edu/EconInternet/Commerce.html>

Experimental Stock Market Data.

<http://www.ai.mit.edu/stocks.html>

IMall Home Page.

<http://www.imall.com/homepage.html>

Interesting Business Sites on the Web.

<http://www.rpi.edu/~okeefe/business.html>

Internet Business Directory.

<http://ibd.ar.com/>

Internet Shopping Network.

<http://shop.internet.net/>

Open Market's Commercial Sites Index.

<http://www.directory.net/>

Shopping IN.

http://www.onramp.net:80/shopping_in/

Thomas Ho's Favorite Electronic Commerce WWW Resources.

<http://biomed.nus.sg/people/commmenu.html>

Yellow Pages.

[http://www10.w3.org/hypertext/DataSources/
bySubject/Yellow/Overview.html](http://www10.w3.org/hypertext/DataSources/bySubject/Yellow/Overview.html)

COMMUNITY NETWORKS

Blacksburg Electronic Village Home Page.
<http://crusher.bev.net/BEVhome.html>

Cleveland Free-Net.
<telnet://freenet-in-a.cwru.edu>

Freenets and the Politics of Community in Electronic Networks.
<http://www.usask.ca/library/gjc/v1n1/graham/graham.html>

Freenets Home Page.
<http://herald.usask.ca/~scottp/free.html>

MGD TapRoom.
<http://www.mgdaproom.com/>

National Public Telecomputing Network: Affiliates and Organizing Committees.
<http://free-net.mpls-stpaul.mn.us:8000/teleport/top.html>

DIRECTORIES

EINet Galaxy.
<http://galaxy.einet.net/>

Internet Directory.
<http://home.mcom.com/home/internet-index.html>

The Whole Internet Catalog.
<http://www.digital.com/gnn/wic/index.html>

Yahoo-A Guide to WWW.
<http://akebono.stanford.edu/yahoo/>

Diversity University.

<http://pass.wayne.edu/DU.html>

Globewide Network Academy.

<http://uu-gna.mit.edu:8001/>

MIT School of Architecture and Planning Home Page.

<http://alberti.mit.edu/ap/ap.html>

National Distance Learning Center.

<telnet://ndlc.occ.uky.edu>

Virtual Online University.

<http://core.symnet.net/~VOU/>

E L E C T R O N I C C A S H

CyberCash Home Page.

<http://www.cybercash.com/>

DigiCash Home Page.

<http://www.digicash.com/index.html>

First Virtual Home Page.

<http://www.fv.com/>

G E N E R A L

Alliance for Public Technology.

<http://apt.org/apt.html>

ECHO Home Page.

<http://www.echonyc.com/>

HotWired.

<http://www.wired.com/>

WELL Gopher Site.

<gopher://gopher.well.sf.ca.us/>

I N T E L L E C T U A L P R O P E R T Y

Electronic Frontier Foundation Intellectual Property Issues and Policy Archive.

http://www.eff.org/pub/EFF/Legal/Intellectual_property/

I N T E R N E T

Electronic Frontier Foundation's Guide to the Internet.

[http://www.eff.org/pub/Net_info/Guidebooks/](http://www.eff.org/pub/Net_info/Guidebooks/EFF_Net_Guide/netguide.eff)
[EFF_Net_Guide/netguide.eff](http://ftp.eff.org/pub/Net_info/Guidebooks/EFF_Net_Guide/netguide.eff), [ftp.eff.org/pub/Net_info/](http://ftp.eff.org/pub/Net_info/Guidebooks/EFF_Net_Guide/netguide.eff)
Guidebooks/EFF_Net_Guide/netguide.eff, or send e-mail to
info@eff.org

Information Sources: The Internet and Computer-Mediated Communication.

<http://www.rpi.edu/Internet/Guides/decemj/icmc/top.html>

Internet Society Home Page.

<http://info.isoc.org/home.html>

The Internet Index.

<http://www.openmarket.com/info/internet-index/current.html>

WWW Hot Topic: Internet 25th Anniversary.

<http://www.amdahl.com/internet/events/inet25.html>

M U D S A N D M O O S

Available Information on MUDs.

<http://www.cis.upenn.edu/~lwl/mudinfo.html>

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City of Bits

Space, Place, and the Infobahn

By: William J. Mitchell

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City of Bits: Space, Place, and the Infobahn

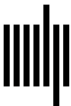
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