

#### Ceci tuera cela

The archdeacon gazed at the gigantic edifice for some time in silence, then extending his right hand, with a sigh, towards the printed book which lay open on the table, and his left towards Notre-Dame, and turning a sad glance from the book to the church,--"Alas," he said, "this will destroy that [ceci tuera cela]."

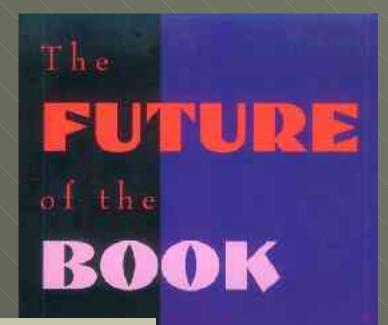
Victor Hugo Notre-Dame de Paris

#### WRITTM SPACE

Today we are living in the late age of print. The evidence of senescence, if not senility, is all around us. And as we look up from our computer keyboards to the books on our shelves, we must ask ourselves whether "will this destroy that (p. 2).

The Computer, Hypertext, and the History of Writina

> The issue is not whether print technology will completely disappear; books may long continue to be printed for certain kinds of texts and for luxury consumption. But the Jay David B idea and ideal of the book will change: print will no longer define the organization and presentation of knowledge, as it has for the past five centuries (p. 2).



No conference or collection of essays on the future of the book would be complete without someone citing these words (p. 10).

GEOFFREY NUNBERG



- 2. Signs of Print
- 3. Conclusions

One of the ironies of our culture's fascination with virtual technologies is its fondness for consuming books and articles that proclaim the death of print culture--or its disappearance into the matrix

Robert Markley Virtual Realities and Their Discontents (1996)

NICHOLAS MEGR

serve that technology is record stony stock retter man you can briten bee

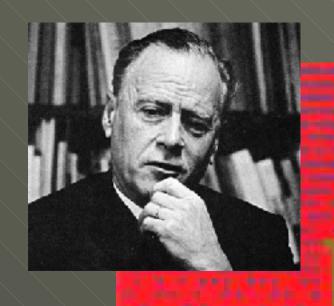
So why an old-fashioned book, Negroponte, especially one without a single illustration? Why is Vintage shipping *Being Digital* as atoms instead of bits, when these pages, unlike Evian water, can be so easily rendered into digital form, from whence they came? (p. 7).

At both copyings, Exten wore was several to one-liser give heaters. Unlike more of the puracquerin, I know exactly where Exten was from my copyrights. Financia because in passe than five

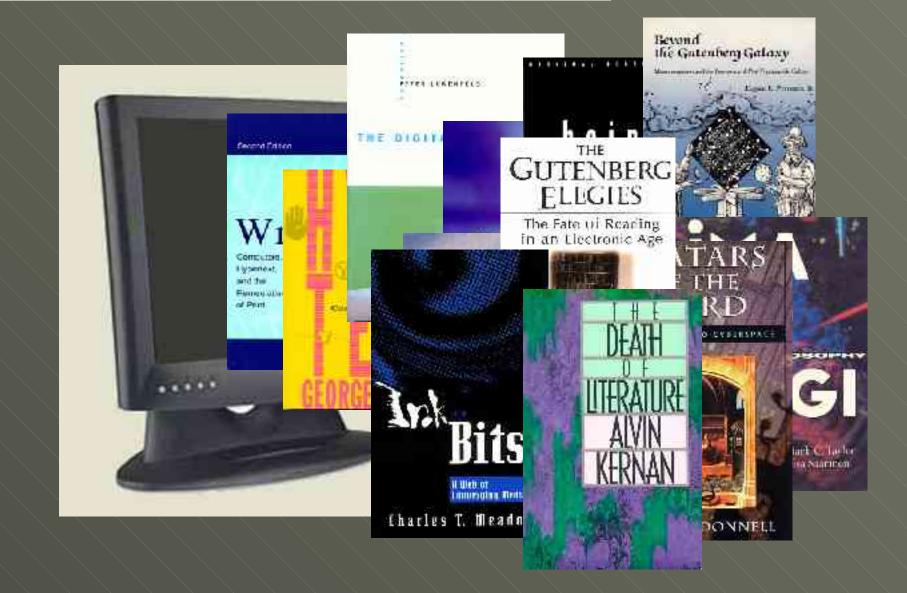
burnlind miles from the Artistra Octor. Those heavy glass but-



Cyberspace is the realm of pure information, filling like a lake, siphoning the jangle of messages transfiguring the physical world, decontaminating the natural and urban landscapes, redeeming them, saving them from the chain-dragging bulldozers of the paper industry, from the diesel smoke of courier and post office trucks, from the jet fumes and clogged airports...from all the inefficiencies, pollutions (chemical and informational), and corruptions attendant to the process of moving information attached to things--from paper to brains--across, over, and under the vast and bumpy surface of the earth rather than letting it fly free in the soft hail of electrons in cyberspace (p. 3).

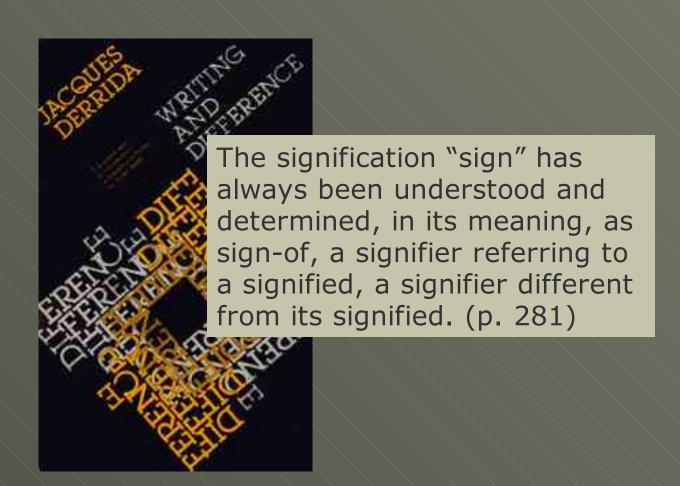


It is the purpose of the present book to study primarily the print phase of alphabetic culture. The print phase, however, has encountered today the new organic and biological modes of the electronic world... And it is this reversal of character that makes our age 'connatural,' as it were, with non-literate experience, simply because we have recreated it electronically within our own culture (p. 45-46).



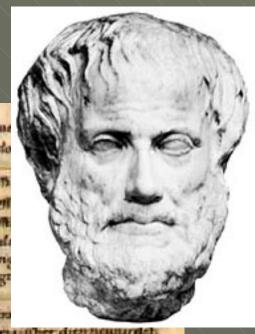
It is not surprising that this is a book and not a computer program.

Rob Wittig Invisible Rendezvous (1994)



dia mérdan confeque áber buokhos modo

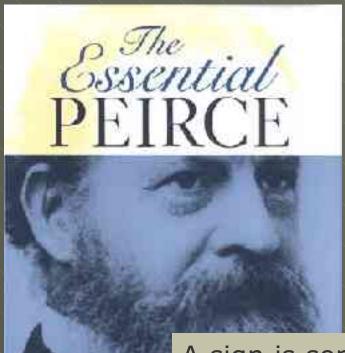
Spoken words are the signs of mental experience and written words are the signs of spoken words. Just as all men have not the same writing, so all men have not the same speech sounds, but the mental experiences, of which these are the primary signs are the same for all, as also are those things of which our experiences are the images" (1, 16a 3)



have

the production of the pr

Tah menge awanda inpaffibile genuchie



A sign is something which stands to Selected Philane somebody for something in some respect or capacity...the sign stands for something, its object (p. 228).

the Peirce Edition Project

Jacques Derrida

**MARGINS** 

The sign is usually said to be put in the place of the thing itself, the present thing, 'thing' here standing equally for meaning or referent. The sign represents the present in its absence. It takes the place of the present. When we cannot grasp or show the thing, state the present, the being-present, when the present cannot be presented, we signify, we go through the detour of the sign. (p. 9)



lacaues Derrida

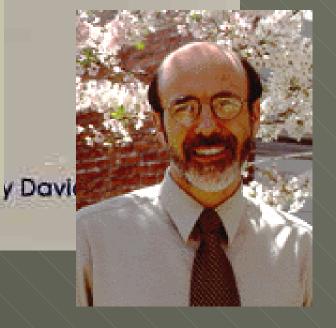
This structure presupposes that the sign, which defers presence, is conceivable only on the basis of the presence that it defers and moving toward the deferred presence that it aims to reappropriate. According to this classical semiology, the substitution of the sign for the thing itself is both secondary and provisional: secondary due to an original and lost presence from which the sign thus derives; provisional as concerns this final and missing presence toward which the sign in this sense is a movement of mediation. (p. 9).



This printed book can be about, but cannot be, an electronic book (p. x). ACH

Because the subject of this printed book is the coming of the electronic book, I have found it particularly difficult to organized my text in an appropriate manner--appropriate, that is, to the printed page. In my mind the argument kept trying to cast itself intertextually or "hypertextually" (p. ix).

mputer, Hypertext, e History of Writing



At the end of this printed book, the reader has the opportunity to begin again--by working through the text on a computer diskette that can be obtained by sending in the order form enclosed in the book. The diskette, which runs on Macintosh computers, contains a hypertextual rewriting of this book. The hypertext shadows the printed version, presenting paragraphs that appear in print and offering hypertextual notes that expand particular ideas. These elaborations could not be included in the printed version because of limited space or because a particular digression did not seem appropriate to the linearity of print (p. 240).

caret care Steller Statement

to be doing with interfactive. Havelets uniffling an remaide and the presneglectable of the other layer there a units to placement of the treatment of



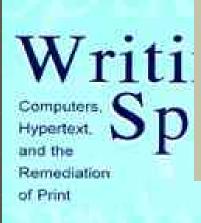
#### Writing Space: A Hypertext Chage My Cerch Cond. is a hyperfectual companion to Bobo's Writing Speak The Computer, Hypertest, and the history or swrang, which stationes many or the concepts SWIND MINNEY DECEMBER ADVICE IPS and honding charges will be edded to dealt card adde. discussed in the bicoli. Menicola: the Reported scraim of Willing Spana's on exemple of the possibilities hypertest aforts its users for extending the Cond Number traditional boundaries of the printed book it diovs uses to moles new upinestic/aruns, surgicipaments of sections of the heat and even encourages true Outer / uses to other the fact as they go along Count care crising connect to promised without your rightness.) System Requirements ... A Manifester Computer with at east one negative of RAM. Safeth & 0 or greater, Finder 1.0 or preater and at least two decays. A hand dak is Pages offer creativity ensure proper delivery. stonety recommended. Union ... 2-56323-067-3 / 3.5" Mouthfeath diskette / 39.95 At order must be precald by could bard or check. Property Enclosed Character money erder, US, outlier as only.) Person include harding charge at \$2.00 for the line tisk and \$10 for each. DX. City/States/Spi44 egistencerving #131 anchonomitage Total Amount England 3 (No medians values was too) O. LAWRENCE ENBAUM ASSOCIATES, INC. Call toll-tree to order: Predon send this condition 365 Biocasway, "Rodory, three Josey 07542 1-850C4-1-008-1 (201) (65-41 () FAY (201) AAA 2354 (1-800-196-5579) Next how your creat part or U.A. curronal LD. Humber reads.

elegen to consider in many or loss formal. The advant the great, incompatible levels because the agreed point that is now partiage.

WHI CH

The figures we will reside a progress which has report to well by a perful to see a first see and the see and the

Second Edition



Those changes are due almost entirely to the development of the World Wide Web. For better or worse, the web is hypertext for us today; all the earlier applications of stand-alone hypertext seem experimental of provisional in comparison (p. xi).

Jay David Bolter

Second Edition

Writi
Computers Sp
Hypertext Sp
and the
Remediation
of Print

Jay D

### 11

#### The Web Site

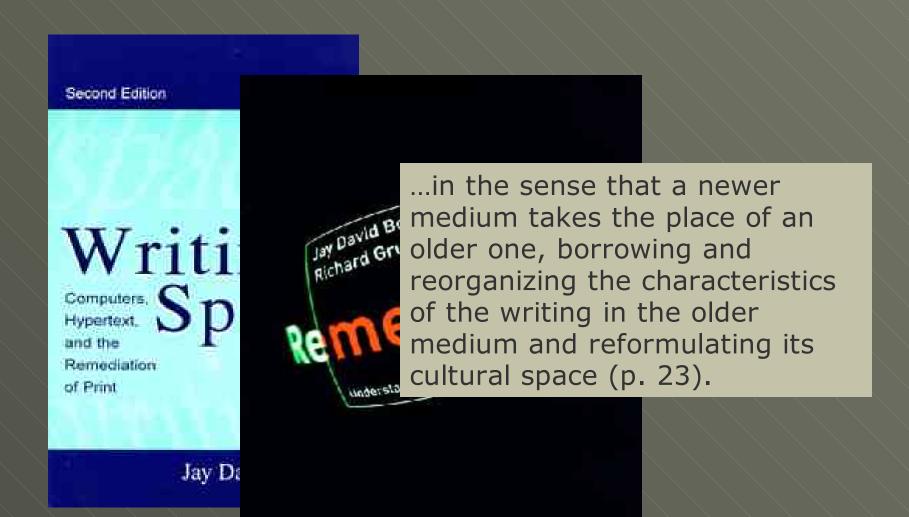
The first edition of this book was accompanied by a hypertext version on a diskette. It was a stand-alone hypertext that used links to attempt to define a shadow text—a text that confirmed, elaborated on, and sometimes reversed the printed version. The second edition has an associated Web site instead: (www.lcc.gatech.edu/~lxolter/writ.ngspace/). It has become a fairly common practice to accompany a printed book with a Web site, often to provide ancillary material that the book omitted due to limitations of space or the limitations of the printed medium itself. A Web site can also contain multimedia features, such as digitized audio and video, that the book cannot. As a tespectful remediation, the Web site for Writing Space does not seek to render the printed version unnecessary. Much of the text is not included in the site. It is

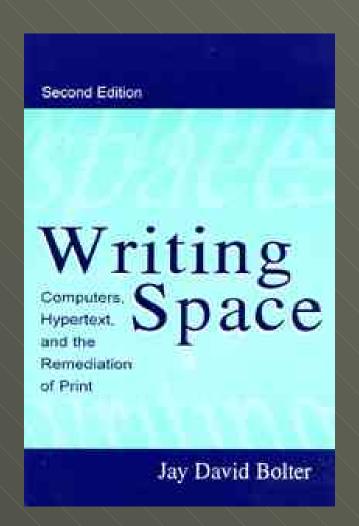
#### Second Edition

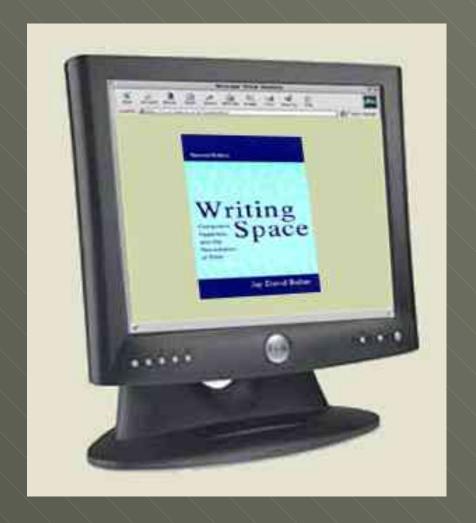
This edition of *Writing Space* is meant...to show how hypertext and other forms of electronic writing refashion or 'remediate' the forms and genres of print" (p. xii)

Hypertext. and the Remediation of Print

If the hypertext diskette for the first edition was meant to provide a shadow text, a metaphoric replacement of the printed text, the Web site is instead an extension, and a remediation of the printed text... (p. 214).







Second Edition

and the

of Print

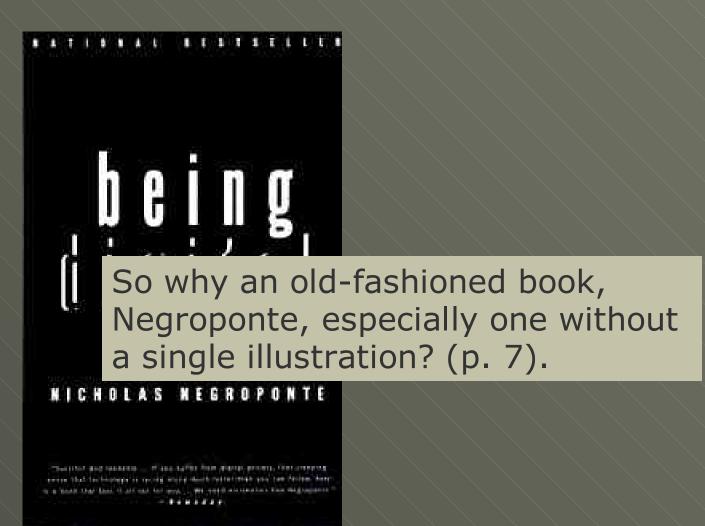
Remediation

A book is about something. In being about, it defers and refers to something else. And in being referred elsewhere, the material of the book is considered to be secondary and provisional. Computers, Space

Hyperlext, of Writing

Bolter

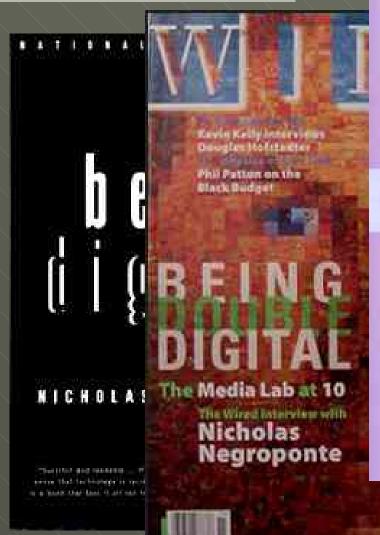
Jay David Bolter



....... .........

First there are just not enough digital media in the hands of executives, politicians, parents, and all those who most need to understand this radical new culture. Even where computers are omnipresent, the current interface is primitive--clumsy at best, and hardly something with which you might wish to curl up in bed. A second reason, is my monthly column in Wired magazine. The rapid and astonishing success of Wired has shown that there is a large audience for information about digital life-styles and people, not just theory and equipment. I received so much thoughtful feedback from my (text only) column that I decided to repurpose many of the early themes, because a great deal has changed even in the short time since those stories were written (p. 7).

The property and the state of the second sec



#### SECRETARIES.

100 P. T. Dept. THE RESIDENCE AND PARTY. la seleccione

FOR BOAR SAN WHAT COMPANY OF THE PARTY OF TH Street County Street Surveys of a making their beautiful the owner. the same of the sa DESCRIPTION SECTION CONTRACTOR ACTUAL CHARGE DESIGNATION CONTRACTOR IN CONT Manager Street, and other Printed Street, Street, Street, Book Statement the world from the for het "semaster er sontmen, freiebecause his a laboration and at-Righted Street, Toronto yours to Francis Statement Street and April 1 An owner, 9 form mottle mentary. SARRY, SALE: Exchange over the levely in self-job Flactures makes in the best comment. AND REAL PROPERTY AND REAL PROPERTY. extended by her principle (April the state of the first own party many for a service of course in

#### Being Decimal

Without a least with the community authorist's alligness impaid for and land has been accounted. NUMBER OF STREET STREET, THE RESIDENCE THE SECRETARIES COLUMN TWO WINDS West the Caronickness

MANUSCHAR WAS FREE & OF Mark Thompselbooks, No. 400 of Concession was become burnlevell renessrings. money plots laborate various distrimerchanism that the last to be make the committee of the contract of the cont

NEXT CONTRACT CONTRACT OF PART SUPPLIED TO A SAFE TO A SAFE SAFE SERVICE STREET Driven and order to the Process of the want in particular hand, when the with part of the law or will be a common to the the ball of 185. When the de descript do a THE RESERVE OF THE PARTY NAMED IN

Mose responsibility confirmation is ald hat. The term appears in the party's midlar bern bleng jing in a et some of the registrate companions.



#### Philipping for new below.

SHARE THE TAX SON THE Million Wido Philosophy San St. Co. became from a or marries, Private, and the of the season that the season is not to Section and the later of the la Street, Street, Square, or DESCRIPTION OF A PERSON OF THE RESERVE AND ADDRESS OF THE PARTY OF THE THE REAL PROPERTY AND PERSONS AND

DESCRIPTION OF THE PARTY OF THE SUBJECT THE SECURITIES IN THE RESIDENCE defined to story of province was not minergently the Respirit from and from Substitute of the section in DESCRIPTION OF PARTY PROPERTY AND PARTY. tion, trace bare business will be tax-AT THE RESIDENCE PROPERTY AND ADDRESS. History & war I have not the Man within president \$ 1 to be seen

#### Tires is a bettar marker ther. \$150.

Mary Constitution of the C STATE OF THE PERSON AND PROPERTY AND PROPERT the sales of the property of the party of the sales of th WHITE BUT THE RESERVE AND ADDRESS OF THE PARTY OF THE PAR Section of the control of the control of the THE SCHOOL PROPERTY AND ADDRESS. N. St. Clark St. Company of the Lower Company of the Company of th District of the last of the la

The providing of the late has which the sales will be supplied to the Schoolse a William Community of the Party of make the authorized on the last rese They had the product of CAM account for a has beautiful to # total according makes and the company Conclusion through the beating body. parety have been been producted as MILE PROTECTION FROM YOUR PROTECTION STORE NAME OF PERSONS ASSESSED. BOTH IS SHOWN I SHAREST BUY SHOWN ALTERNATION FOR THE PROPERTY AND THE DESCRIPTION OF PERSONS ASSESSED. the discount of the new year of the years districtly may be on Table ACRES CARROLL SALES

#### When a deat down

Addition to Chick Contribution reason (Spins) the white has been been by the property about STATE HOLD COMMENTS THE PROPERTY. and the second particular second anyone memor until it coveriges of may follow the Province and Province the production plans and in the cases HAVE THE HER BOTH IN TO COMMUNICAL SECTION AND REPORT OF SHARE PERSONS ARREST MATERIAL TOTAL CONTRACT

articulation committees of present in proof the order sufficiency core Despital administration of makes sometication (1) Hel assures of married bearing the product of the ment - plant of least devices. Transferred by object continue have Secretary and the second section in the second section in Chronic Spring to Treating and Salting

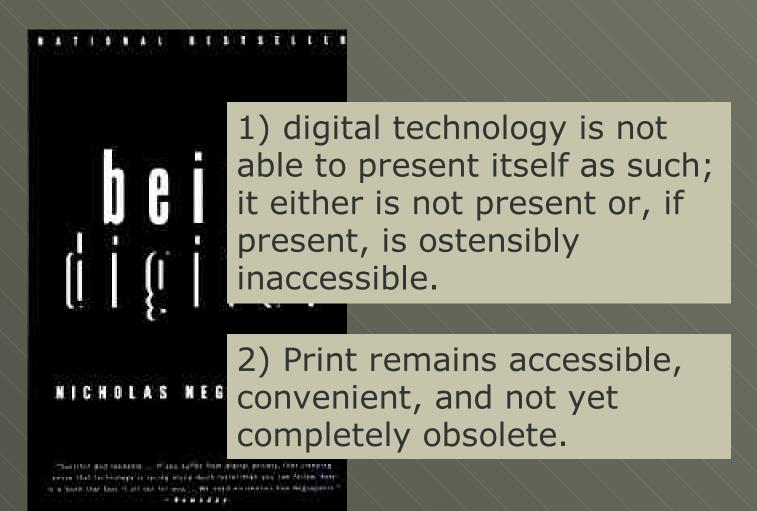
Sundainer and had began the A commenced programs and otherwise the ball and and the former and the processed "Dispose party above the gate," no. The small bearing to bear to second HE THE WAYNE WINDOWS WITH MARKET R. THE REST NAME OF THE PARTY OF THE PARTY OF musclate of term was favor northern Managing countries Property Business's or of the printing place to process to which with Frontial all rather Who were not their Day and March, Service or PERSONAL PROPERTY OF THE PARTY AND PERSONAL PROPERTY AND ADDRESS.

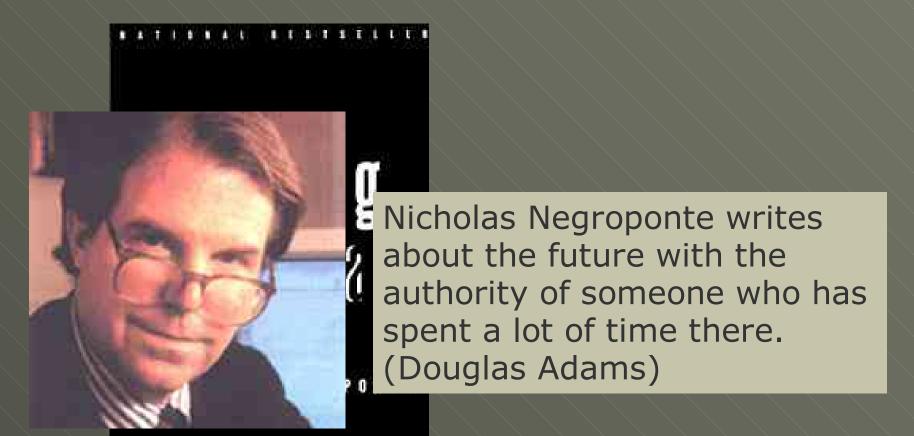
Not despite the same had by participated by four out officery products a marrow improved by Mings But Name of the Commenter (THE LODGE, Parky) SETTING THE PARTY OF THE PARTY OF THE PARTY. or progettioned all man it is JAMES TO THE HALL THE PARTY LAWRENCE. we pre-company of the last training where the street, the same

The Part of Part of the Part of the

ATTENDED

\*\*\*\*





The first and passence of the hards from passence from Arches been as the last the being in the last tender of the last tender

There is nothing outside the text.

Jacques Derrida Of Grammatology (1967)

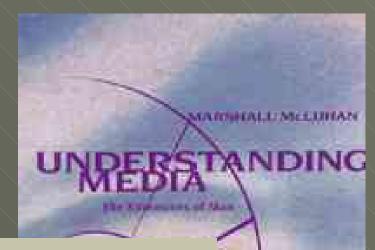


1096

sign • silent

in release the represent the complex content. It came of the 12 diversions of the codes: § a (1) to a direction of use that we shared used in 1 detect of the tenth (1) the state of the 1 distriction of the 1 distriction

If For the dictionary has always been the classic example of the semiotic principle that signs refer only to other signs... We can only define a sign in terms of other signs of the same nature. This lesson is known to every child who discovers The that fundamental paradox of the dictionary: that if you do not know what some words mean you can never use the dictionary to learn what other words mean. The definition of any word, if pursued far enough through the dictionary, will lead you in circles. This paradox is the foundation of semiotics. A sign system is a set of rules for relating elements. The rules are arbitrary, and the system they generate is self-contained. There is no way to get 'outside' the system to the world represented, because, as in the dictionary, signs can only lead you elsewhere in the same system (p. 197).



This fact, characteristic of all media, means that the "content" of any medium is always another medium (p. 8)

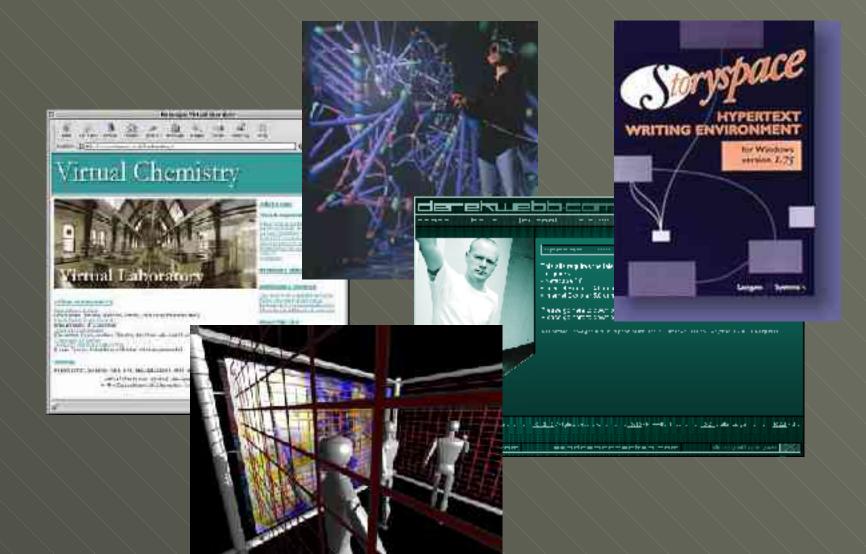
1. There is nothing outside the text

### WRITING

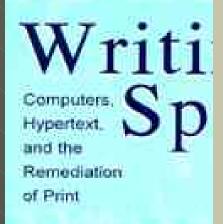
Electronic readers and writers have finally arrived at the land promised (or threatened) by post-modern theory for two-decades: the world of pure signs. While traditional humanists and deconstructionists have been battling over the arbitrary, self-referential character of writing, computer specialists, oblivious to this struggle, have been building a world of electronic signs in which the battle is over (p. 204).

oerlext, Writing

- Jay David Bolter -

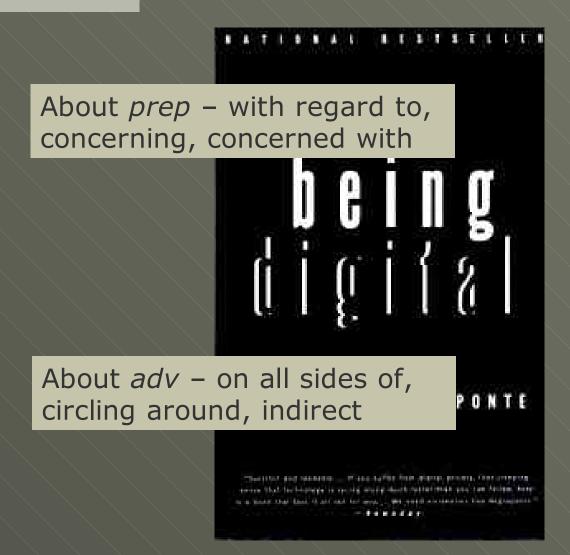


Second Edition

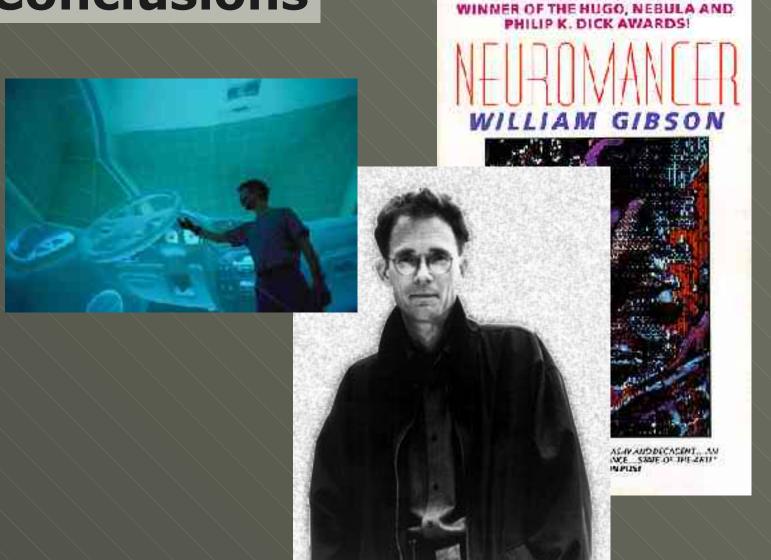


In revising this book, as I have noted, I have depended on the published work of many colleagues in literary hypertext and computer science, as the references indicate. In addition to drawing on their printed and electronic publications, I have also been privileged to know many, perhaps most, of the important figures in the field. I have benefitted from attending their conference papers and from e-mail discussions and private conversations (p. xiv).

Jay David Bolter



2. Material matters



THE BOOK OF THE YEAR!

3. Examination of technology needs to be self-reflective



It characterizes the epistemic quandary of writers from diverse fields in which the act of the investigation is itself implicated in the object of inquiry as the condition of possibility. Undoubtedly, the presence of circular reasoning poses a methodological problem of considerable difficulty, but, as Martin Heidegger among others has assured us, it is not as pernicious as it

appears on first blush (p. ix-x).

Prigramming the Budgler, and Supposite of European.

#### **MEDIA ARCHIVE**

To write about media is to ask the question what give writing the right to speak for other media (p. 1).

ADILKNO

