

asking again

Mark Bernstein Eastgate Systems, Inc.

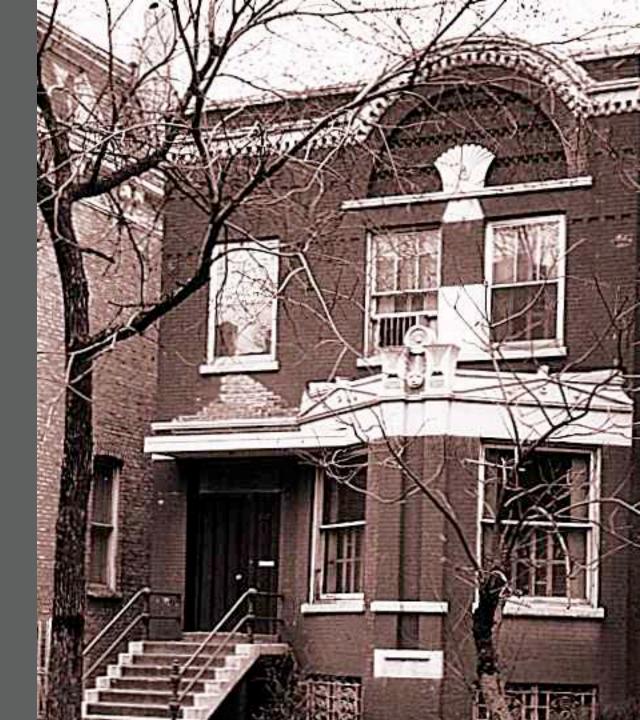
EVERYTHING IS INTERTWINGLED

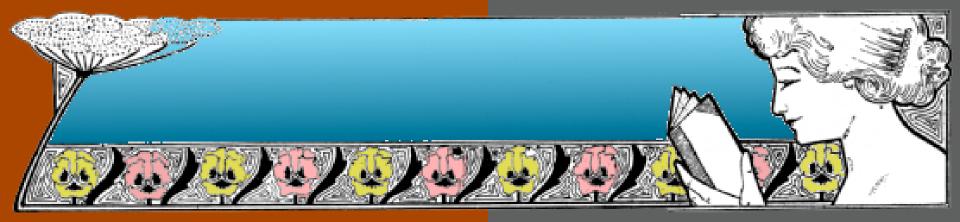
Theodor Holm Nelson





CHICAGO, ILLINOIS, USA





ART NOUVEAU HYPERTEXT

Honest materials
Organic forms
Curves (resisting the line)
Form follows function

Gender-aware
domestic space (women as patrons)
Furnishing the salon

Literary machines
Links
Nonlinear reading
Form follows function

Gender-aware
see Wendy Morgans paper
Demolishing the Master's House



Jugend was an influential and stylish magazine — The **WIRED** of its era.



DARMSTADT

A center of Jugendstihl



Jugendstihl was the the German movement corresponding to the French Art Nouveau



"This is the eleventh hour of the human race, and there is a deadly urgency about everything we do"

- TED NELSON, LITERARY MACHINES, 1981



I first asked this about ten years ago.

After **TWO** hypertext conferences, why weren't hypertexts everywhere?

Was this youthful impatience?

Or a sign that something was wrong?

"Where Are The Hypertexts?"

HERE!

PAPERS

PANELS

WORKSHOPS

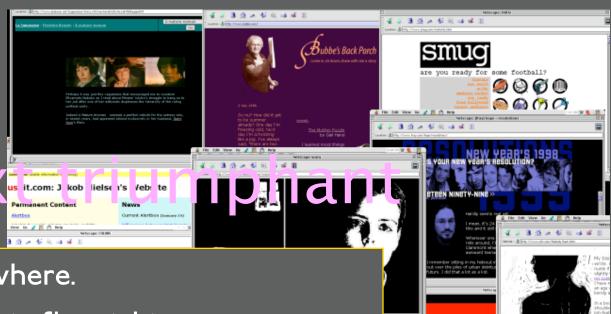
READINGS

DEMOS

POSTERS

THE HT
CONFERENCE IS
VERY OPEN, BUT
EXTREMELY
SELECTIVE.





Hypertex

- the Web is everywhere.
- Literary hypertext is flourishing.
- Hypertext is triumphant.
- But where are the hypertexts?

Many Web pages are barely hypertextual

Hypertext publishing often seems marginal or worse

We've come a long way....

...but why haven't we come farther?

"Where Are The Hypertexts?"

TELL ME A STORY

- ... ABOUT HYPERTEXTS WITH CHARACTERS
- ... ABOUT THE BUSINESS OF ART AND THE ART OF BUSINESS
- ... ABOUT THE FAILURE OF THE TWO CULTURES

Narratives abound

History awaits

The stories and characters described here are imaginary. Any resemblance to actual persons, living or dead, or to actual events, is purely coincidental.



Chieko

Brand-new degree., brand-new job (yes!) in QA & Usability at a growing Internet company

Avid reader

Personal Web memoir gets ~10K readers per month

Steven Johnson,
Interface Culture

INTERFACE CULTURE
HOW NEW TECHNOLOGY
TRANSFORMS THE
WAY WE CREATE AND
COMMUNICATE.
STEVEN JOHNSON

Esther Dyson, Release 2.0

Gamma et al,

Design Patterns



Prof. Morris Weiss (emeritus)

A student of history

Hasn't been back to Germany since WW2

Loves books

Mistrusts the Disneyfication of publishing

Still finds ballpoint pens unsettling

(but loves Web surfing)





Anthony Grafton

The Footnote:

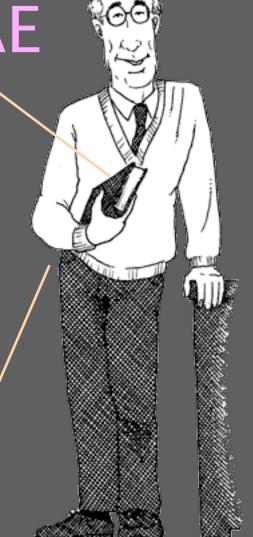
A curious history



Bolter and Grusin

Remediation







Ted

A student of engineering (and life)

Loves computers, writing, books

A visionary, a dreamer

Never satisfied with her work

If she's not filming, she's taking notes...



Hypertext '98 Proceedings

Stephanic Stricklan

Deena Larse

Deena Larsen

Samplers

Stephanie Strickland

True North

Jan

A student of film

Loves movies, MUDs, games, VR

Searching for media that transcend text

Looking beyond the end of books



Scott McCloud

Understanding Comics

Espen Aarseth

Cybertext

Akira Kurosawa

Rashomon

Fallout

/lor



"Where Are The Hypertexts?"

YOU SAY YOU WANT'REVOLUTION?

We all want to change the world.

Five silly objections to hypertext.





TWITCHY SCREENS

Essentially all professional writers now write on screens. We all spend our days in front of screens. They're good enough.

Getting better, too. (HT98: Price, Xlibris; also Zellweger's Fluid Links)





Sven Birkerts,
The Gutenberg
Elegies

BUT I LOVE BOOKS!

Morris Weiss, age 8 Warsaw







Sven Birkerts,
The Gutenberg
Elegies

BUT I LOVE BOOKS!

Of course.

We all do.

Don't confuse the spirit with the body, or the soul with the machine.







Sven Birkerts,
The Gutenberg
Elegies

BUT I LOVE BOOKS!

Does hypertext, like TV, corrupt us?

Arguments about the MTV generation amount to little more that resenting youth for their nice bodies.



"Parental fears of what children might see on the Internet are very peculiar, considering what children can see on the walls in public restrooms."

-THEDOR HOLM NELSON

"You say you want a revolution? YOU CAN'T READ Them IN THE

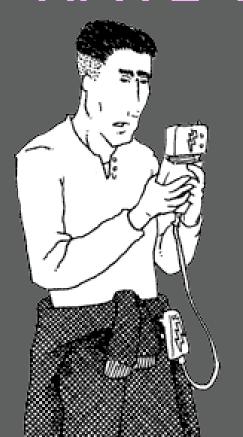
The Bolter Test

BATHTUB



WHAT? YOU HAVE TO PAY?

Golumbia,
Postmodern
Culture



The tools are cheap. And getting cheaper.

A good book has ALWAYS cost as much as a good dinner. We're still subject to the ills of capitalism.

FOR SCHOLARS TO BLAME ARTISTS FOR THESE ILLS IS EITHER DISINGENUOUS OR DISHONEST.

See Kendall, SIGWeb Bulletin 99

It Won't LAst

NEITHER WILL YOU.

Bypertexts won't be lost because formage go obsolete or media decays.

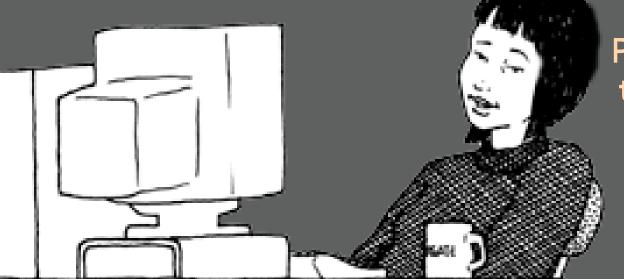
⋈Hypertexts (and texts) are lost when nobody reads them.

Books, like Tinkerbell, survive as long as their audience cares.



WHY do people fall for the silly reasons?

It's always easier to assume it can't work than to do the work.



People really believe that Art and Science are incompatible.

PEOPLE REALLY BELIEVE THAT ART AND SCIENCE ARE INCOMPATIBLE. MYIHS OF ART B SCIENCE



PEOPLE REALLY BELIEVE THAT ART AND SCIENCE ARE INCOMPATIBLE.

MYTHS OF ART & SCIENCE

Hypertext research has been exceptionally open to contributions from both sides of the great cultural divide.

But we still think the camps are separate.

(Legget HT98)



MYTHS OF ART & SCIEN

Clarity, brev





Many people suppose that writing is either "artistic" or "practical".

They assume that all good technical writing is concise, brief, and sincere.

They equate "rhetoric" with affectation.

see Lanham, THE ELECTRONIC WORD

MYTHS OF ART & SCIEN

EXPression is





Which is easiest to explain?

- № NP-Completeness
- Saving Kirtland's Warbler
- Reading Dante's Italian
- Reading your lover's body
- Mortality

"for whom are you judging that things will be easy, or natural, or friendly?"

- DOUGLAS ENGELBART, 1984



MYTHS OF ART & SCIENCE

SCIENCE AND NARRATIVE

How do we explain algorithms?

They're stories!





The hypertextuality of scholarship

"Historical texts are not simply narratives like any other; they result from the forms of research and critical arguments the footnotes record."

-Grafton, The Footnote



The

ART

MYTHS OF ART & SCIENCE

Doing the work

Science sometimes forgets Art.

But Art seems often to expect Science to use the servants' entrance.

















Doing the work

We may be working on the easy part of the problem.

ACCESS IS NOT ENOUGH

Where will we ever find time to read it all?

MYTHS OF ART & SCIENCE

Better than books?

Literature is wonderful.

We have to do better.

To believe otherwise condemns us all to misery, inequity, hunger, and oblivion.



Thebook worldisin trouble.



The book world is ALWAYS in trouble







Thisisdifferent.

It ALWAYS is.





Scribners Bantam Doubleday Longman Harper Collins Dell Chapman & Hall Little, Brown & Co. Alfred A. Knopf Random House Basic Books

Publishershavebeen swallowedby competitors, broadcasters, and moviestudios.





You mean that amazon.com is going to have to buy its books from Barnes & Noble?

Barnes & Nobleis buying the largest bookwholes aler.

Yep.

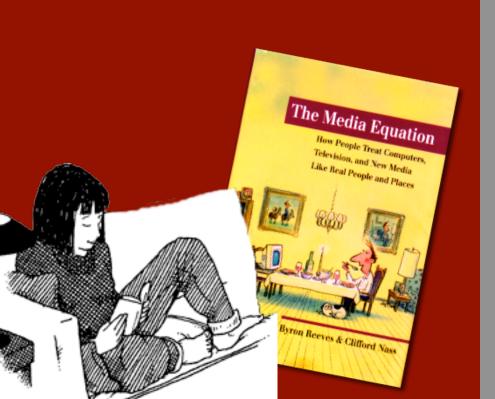
Borders, too.

Andyour localstore, if it's stillin business



Well, there's still my college bookstore.

It'sprobablyrunby Barnes&Noble,too.



Ormaybe another chain.





OK.

But, face it, publishing is a business.

Aweird one, though. Forexample, bookstores operateon consignment —likeused clothesshops





MULTIVALENC E IS NOT A VICE

Well, Bernstein isn't exactly disinterested, you know.





But it's not just production... publishers and booksellers match books and readers.





But it's not just production... publishers and booksellers match books and readers.





It's nice to have the publisher do your bragging for you









Published, shmublished.

Chieko's Web site gets more readers than my last 3 books combined.

It's not MY site — I'm not THAT Chieko!





In the entire US, fewer than 1000 people make their living primarily from royalties on trade book sales.



Now that we have the Web, who needs publishers anyway?





Mid-list novelists — people with a consistent audiences of 30-60,000 readers — are being orphaned by publishers who need best-zellers.

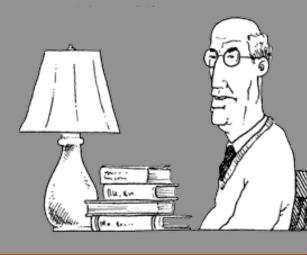


Now that we have the Web, who needs publishers anyway?





Many college students no longer buy the books required for their courses.





Do critics really read the work they review?

"How [do] I explain the enormous popular success of Robert James Waller's Madison County books?

Although I haven't read either THE BRIDGES OF MADISON COUNTY or SLOW WALTZ IN CEDAR BEND, I answer with full confidence: . . .

— Sven Birkerts, Gutenberg Elegies, 203







What a mess.

What a mess.



Whatamess.



What a mess.





PUBLIC FUNDING?

CORPORATE SPONSORS?

GRANTS?

ROYAL PATRONAGE?

JUST GIVE COPIES TO YOUR FRIENDS?

Revolutionary struggle?





We cAN (AND MUST) build a new literary world

- Technological change always transform literary worlds.

We can (and must) build a new literary world

We can choose, now.

Or we can let economics and politics choose for us.

(See Whitehead's paper on economic consumption networks and their impact on hypertext system design)

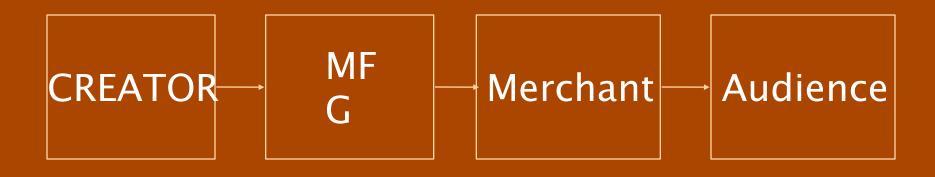
COMPUTERS FOR THE PEOPLE



YOU CAN AND MUST UNDERSTAND COMPUTERS NOW!

> —Theodor Holm Nelson, Computer Lib

DISTRIBUTION



The channel shapes all that passes through it



Some firms
expected New
Media to
resemble
Hollywood

WHY DO MOVIES COST MILLIONS?

Movies need movie theaters

- Expensive projectors (low volume tech)
- & Overhead (seats, advertising, PR)

&network effects are vital

Consequences of A capitalintensive channel

Less need to conserve production costs

Blockbusters use resources efficiently

Massive audience

Only mass audiences can justify the investment tied up in theaters

Studios and Production Companies

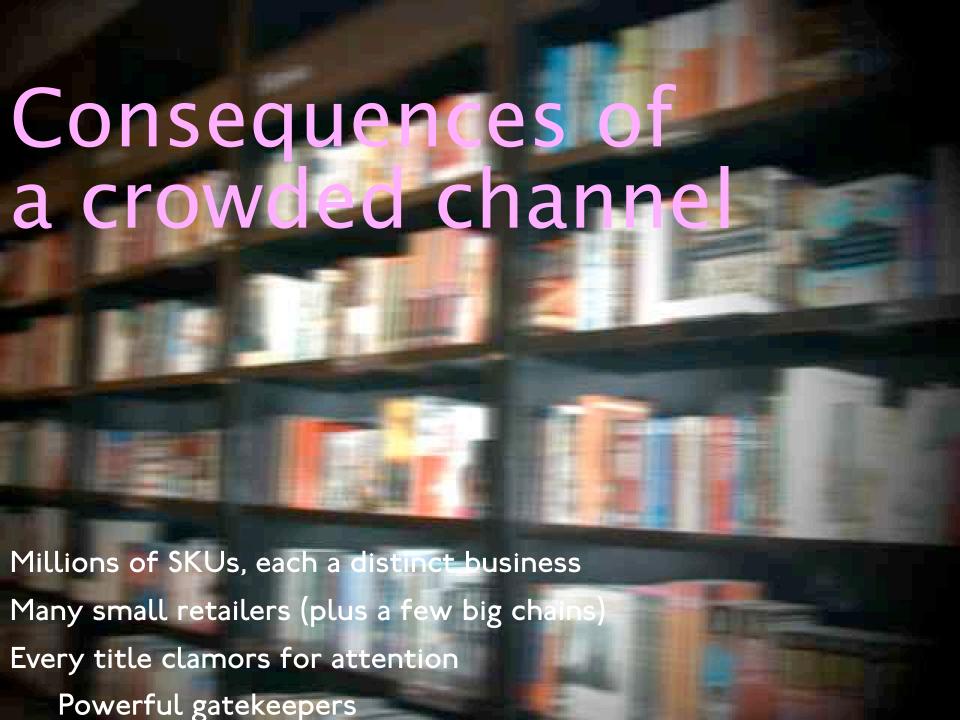
Creation requires many hands and varied talents.

HYPERTEXT ISN'T hollywood

Inexpensive projectors (ubiquitous tech)
Negligible real estate required

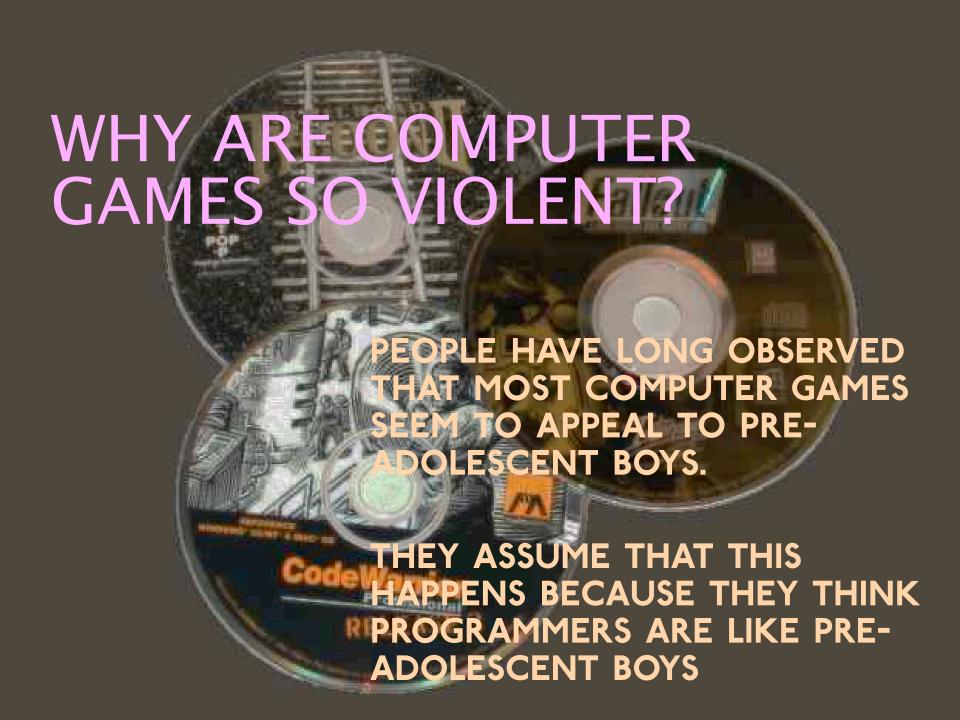
(Even movies may become less like movies, as direct-to-video becomes a viable market)















ART OUTSIDE THE ECONOMY

Some suggest that hypertexts should be distributed outside the capitalist economy

Internet -> "free" distribution

Everyone can contribute -> a world of writers

WWW + Search Engines -> why advertise?

ART OUTSIDE THE ECONOMY

Disadvantages:

The grafitti effect

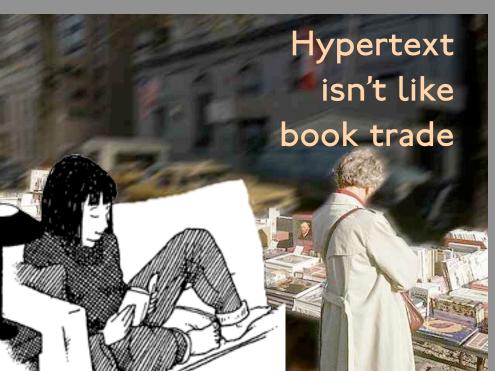
Who will match readers with writers?

A world of literary beggars?

THERE IS NO OUTSIDE









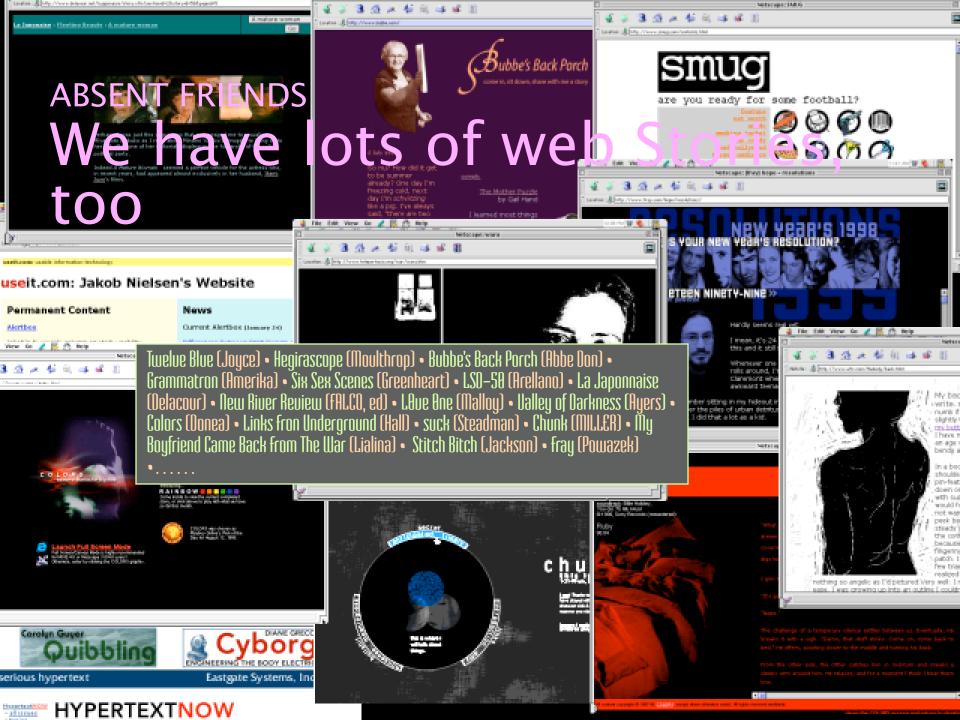












For this world, which seems

To lie before us like a land of dreams,

So various, so beautiful, so new,

Hath really neither joy, nor love, nor light,

Nor certitude, nor peace, nor help for pain;

And we are here as on a darkling plain

LOVE

Which characters would you fall in love with?

Whom could you imagine loving?



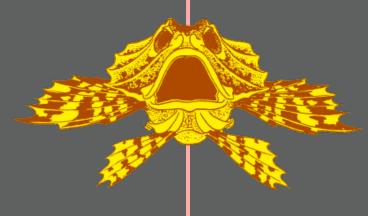
"THE AVANTE-GARDE IS TO THE LEFT WHAT JINGOISM IS TO THE RIGHT. BOTH ARE A REFUGE IN NONSENSE."

-David Mamet, 3 Uses Of the Knife

SIMPLICITY

You must lie upon the daisies And discourse in idle phrases Of your complicated state of mind,

The meaning doesn't matter If it's only idle chatter Of a transcendental kind.



SCIENCE. HISTORY. ENGINEERING.

"Every historical event has two stories about it... Every massacre did or did not happen."

"What I fear is a world of tomorrow's information in which nothing is known anymore and everything is hoaxes and lies."

-THEODOR HOLM NELSON



Mystery stories

committees

ot the novel

THE I PARADOX ploy

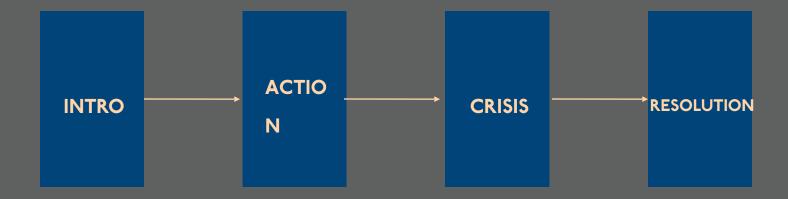


DREAMTIME

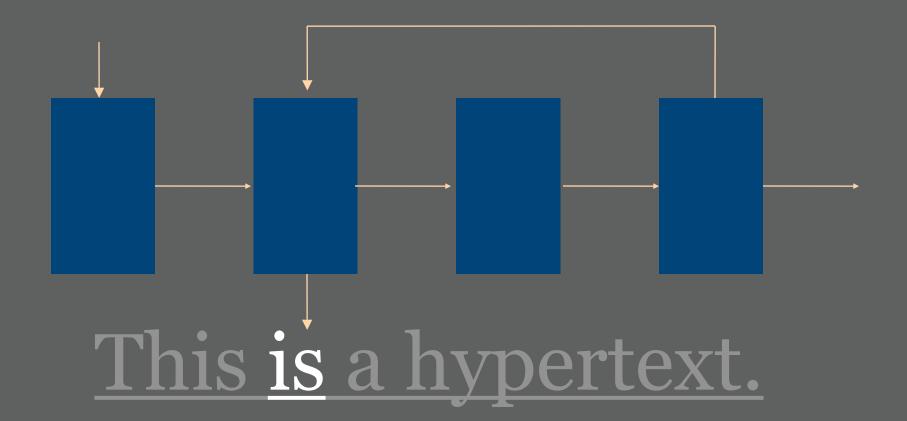
The most important single notion in the theory of fiction . . .is that of the

vivid and continuous dream.

This is not a hypertext.



This is not a hypertext.



"Travelling through Europe is hard."

"Travelling through Europe is hard."

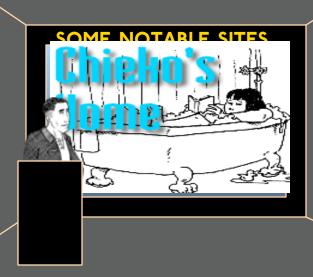
CHIEKO

"I lost my wallet."



CHIEKO



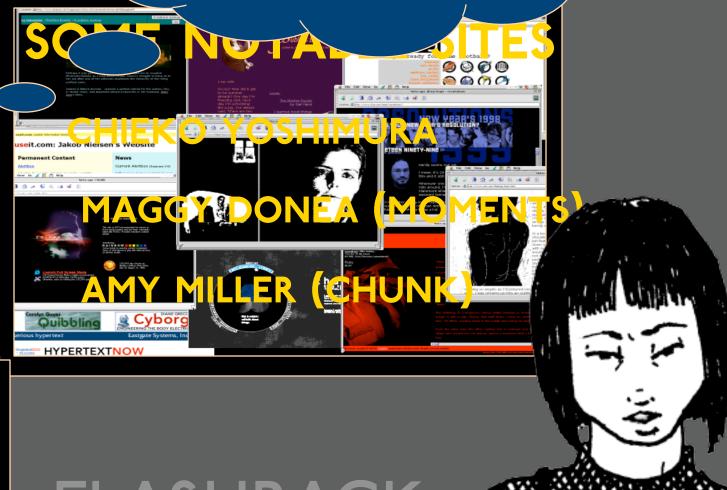




JAN

"Travel through Europe is hard"





JAN Page Jokey GUIDE HYPERDISCO HOSS **NAVIGAT** Microcosm Augment XANADWIK OLE **EXPLORER** MARAPERCARD TourisT CHIMERA Walden's Paths
WEB SQUIRRELTRELLIX

JAN

Lots of these systems explore navigation.



Do any of them help me find a hypertext I need to read, if I don't know I need it?

want to say that I spent last night with a

wonderful by nortext by a girl who lock



@ @ (h A) "Travelling through Europe is hard" **TED** RTEXTNOW CONTOUR -





THIS IS NOT A STORY,



This is not a hypertext

THIS IS NOT the one true way



This is not a story



RETURNING TO OUR ROOTS

Computer Lib
Literary Machines
Augment, Memex

...and beyond

THIS IS A CONSERVATIVE BUSINESS

Don't be discouraged

IHE CRUSADE

THE QUEST FOR HYPERTEXT

EPISODE 10:

RETURNING TO OUR DIVERSE ROOTS

Starring Jörg Haake, Uffe Wiil, & John Leggett

1987: HALASZ & the 7 issues

- 1 Search and Query
- 2 Composites
- 3 Virtual Structures
- 4 Computation in/over hypertext networks
- 5 Versioning
- 6 Collaborative Work
- 7 Tailorability



VISUALIZATION

Ways to see (and manipulate) hypertext structures Cycles • Counterpoint • Mirrorworld • Feint

Discovering emergent structure



ENACTMENT

Ways to see (and manipulate) HT dynamics

Link traversal (fluid links, link previews)

"Guard fields"

Changing hypertexts (time, collaborators)



COLLABORATION

Constructive hypertext

The graffiti effect is terribly important

COMPONENENT SYSTEMS

(Open systems, Structural Computing)

Collaborative on-the-fly system design

LOG ANALYSIS AND USER MODELS





Tension and excitement

We need to demonstrate command of the medium.

Five finger exercises:

Thriller • Schlemiel • Villain • Bedroom farce • There and back

REAL CRITICISM OF REAL HYPERTEXT

Usability is important
Usability usually asks the wrong questions

How do real hypertexts work? How do they fail?



Real criticism, real hypertexts

Let such teach others, who themselves excel. And censure freely who have written well.



REACTIVE HYPERTEXTS

Extremely volatile hypertexts

Constructive frameworks (MacWeb)

Literary machines that learn

Hypertext with characters

SPREAD THE WORD



HELP PEOPLE UNDERSTAND

The provost Your students

My dad Your head of state

The Times Your bartender

Visitors to your Web site

WRITE HYPERTEXTS!





THANKS

EASTGATE SYSTEMS, INC. 1982-PRESENT

• ERIC COHEN • BARBARA BEAN • KATHRYN CRAMER DIANE GRECO • JOANNE WYNDHAM • COLLEEN HUMPHREYS • DAVID FRISTROM • JIM HUANG • MERYL COHEN • ROSEMARY SIMPSON • PRISCILLA SNEFF

EASTGATE WRITERS

• MARY-KIM ARNOLD - BILL BLY - JAY DAVID BOLTER • WES
CHAPMAN • KATHRYN CRAMER • WILLIAM DICKEY • J
YELLOWLEES DOUGLAS • ED FALCO • GIULIANO FRANCO MD •
RICHARD GESS • DIANE GRECO • CAROLYN GUYER • CLARK
HUMPHREY • MICHAEL JOYCE • SHELLEY JACKSON • ROBERT
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CATHY MAC • JUDY MALLOY • MICHAEL VAN MANTGEM • CATHY
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• JIM ROSENBERG • ERIC STEINHART • SARAH SMITH • RICHARD
SMYTH • LOUIS STILLER • STEPHANIE STRICKLAND • ERIN SWEENEY
... AND MANY MORE TO COME