"Why shouldn't one demand a certain effort on the reader's part? Everything is always explained to him. He must eventually tire of being treated with such contempt."

-Raymond Queneau

Literary Games: The Intersection of Writing and Play You are standing by

DANM 132 - Summer 2012

"Why shouldn't one demand a certain effort on the reader's part? Everything is always explained to him. He must eventually tire of being treated with such contempt."

-Raymond Queneau

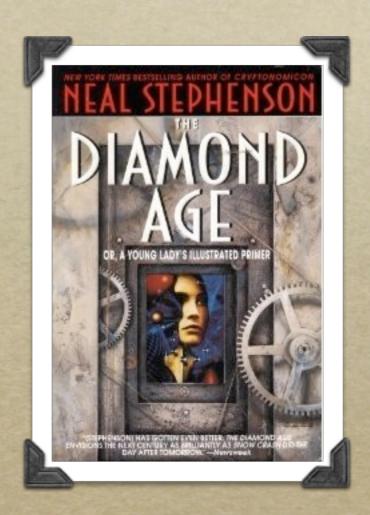
Hypertext and Forking Paths

DANM 132 - Week 1

You are standing before the door

The Dream of Interactive Text

- How far back does this history stretch?
 - The 1980s?
 - The 1960s?
 - Earlier?



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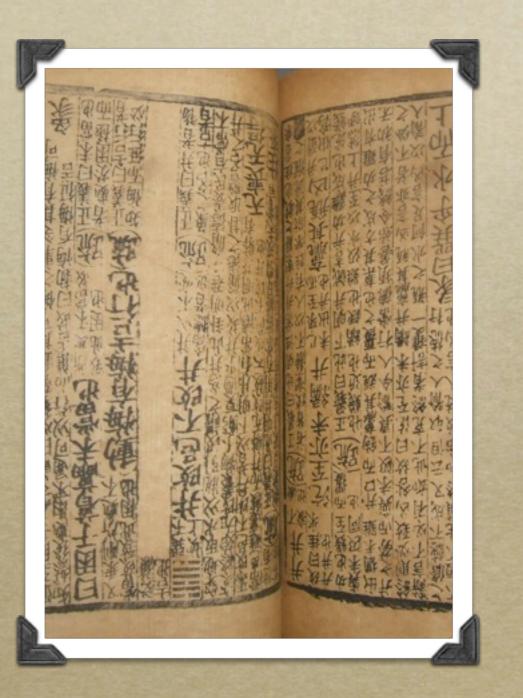
~150 A.D.

The wife of a court official in China's Han Dynasty, Su Hui (2nd Century AD) wrote this text lamenting her husband's infidelities. Can be read 40,000 different ways.

4

The I Ching (Book of Changes)

- Dates from 3rd century BCE
- Random procedure generates one of 64 possible meanings with shades of overlapping interpretation



Goes back even farther.

Knight of the Burning Pestle

THE KNIGHT OF the Burning Peftle.

Indicium subtile, videndis artibus illud Ad libros & ad hec Musarum dona vocares: Baotum in crasso iurares arre natum. Horat. in Epistiad Oct. Aug.



LONDON, Printed for Walter Burre, and are to be fold at the figne of the Crane in Paules Church-yard. 1613. Play by Francis Beaumont, first performed 1607

A Citizen and his Wife come out of the audience to the stage and demand a story more to their liking.

Prol. You seeme to bee an vnderstanding man: what would you haue vs do sir?

Cit. Why present something notably in honour 30 of the Commons of the Citty.

Pro. Why what doe you say to the life and death of fat Drake, or the repairing of Fleet-privies?

Cit. I do not like that, but I will have a Citizen, and hee shall be of my owne trade.

35 Pro. Oh you should have told vs your minde a moneth since, our play is ready to begin now.

Cit. 'Tis all one for that, I will have a Grocer, and he shall do admirable things.

Pro. What will you have him do?

Cit. I do not like that, but I will have a Citizen, and hee shall be of my owne trade. Pro. Oh you should have told vs your minde a 35 moneth since, our play is ready to begin now. Cit. 'Tis all one for that, I will have a Grocer,

and he shall do admirable things.

Pro. What will you have him do? . . .

... 1

1607

TNESS: An INTERLOGIC Mystery Copyright (c) 1983 Infocom, Inc. All rights reserv WITNESS and INTERLOGIC are trademarks of Infocom, Revision number 22 / Serial number 840924

You are now in the driveway entrance. You are standing at the foot of the driveway, the property. The entire lot is screened from the stre wooden fence, except on the east side, which front house looks like a mixture of a California bungalo From here you can see the driveway leading north a door.

7

What should you, the detective, do now?

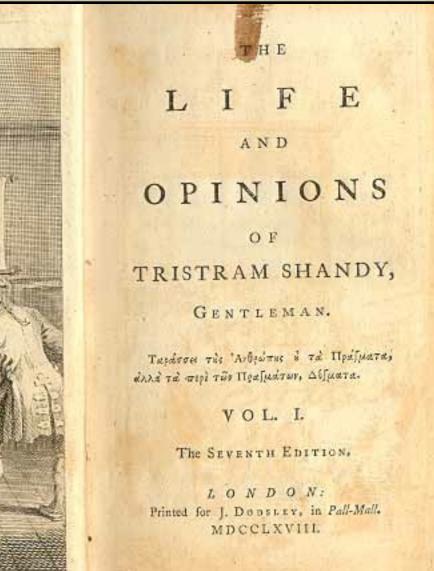
1981

The invocation of the audience to participate, removed when stories became static, fixed things, is re-enabled by the rise of technologically-powered stories.

Tristram Shandy

- The Life and Opinions of Tristram Shandy, Gentleman
- Published in six volumes between 1759-69
- Author Laurence Sterne was a priest who had never previously written fiction.
- Famously discursive and meta-textual





8

Main character not born till volume 3.

Filled with instructions, pleadings, entreaties: don't read the next bit, go back and re-read, etc. Fights with various readers.

Author says he has "torn out" one chapter. Preface occurs in Chap XX p142.

Playing with the structure of a book and the proscribed roles of the reader and author.

[146]

And poffibly, gentle reader, with fuch a temptation—fo wouldft thou: for never did thy eyes behold, or thy concupifcence covet, any thing in this world more concupifcible than widow Wadman.

CHAP. XXXVIII.

TO conceive this right—call for perf and ink—here's paper ready to your hand.—Sit down, Sir, paint her to your own mind—as like your miftrefs as you can—as unlike your wife as your conficience will let you—'tis all one to me—pleafe but your own fancy in it.

"Thrice happy book! thou wilt have one page, at least, within thy covers, which MALICE will not blacken, and which IGNORANGE cannot misrepresent."

[147]

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The Course of Statistics Harris

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--How could you, Madam, be so inattentive in reading the last chapter? I told you in it, That my mother was not a papist. —Papist! You told me no such thing, Sir. Madam, I beg leave to repeat it over again... --Then, Sir, I must have miss'd a page. --No, Madam,--you have not miss'd a word. ...I do insist... that you immediately turn back, that is, as soon as you get to the next full stop, and read the whole chapter again.

I have imposed this penance upon the lady, neither out of wantonness or cruelty, but from the best of motives; and therefore shall make her no apology for it when she returns back:---'Tis to rebuke a vicious taste which has crept into thousands besides herself,---of reading straight forwards, more in quest of the adventures, than of the deep erudition and knowledge which a book of this cast, if read over as it should be, would infallibly impart with them...

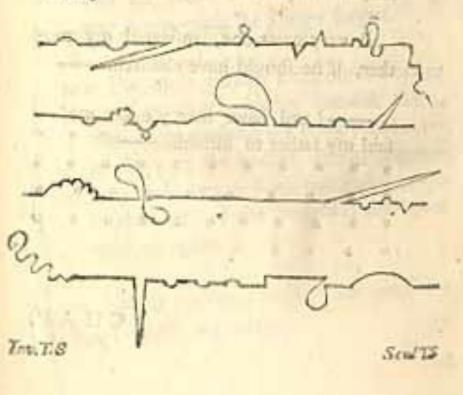
----- But here comes my fair Lady. Have you read over again the chapter, Madam, as I desired you? -- You have : And did you not observe the passage, upon the second reading, which admits the inference? ---- Not a word like it!...

Volume I, p. 120

[152]

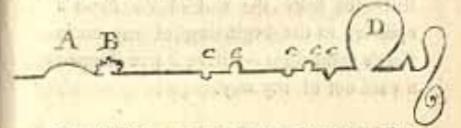
CHAP. XL.

I Am now beginning to get fairly into my work; and by the help of a vegetable diet, with a few of the cold feeds, 1 made no doubt but I fhall be able to go on with my uncle *Toly*'s ftory, and my own, in a tolerable ftraight line. Now,



[153]

These were the four lines I moved in through my first, second, third, and fourth volumes.——In the fifth volume I have been very good——the precise line I have described in it being this :



By which it appears, that except at the curve, marked A, where I took a trip to Navarre—and the indented curve B, which is the fhort airing when I was there with the Lady Bauffiere and her page—I have not taken the leaft frifk of a digrefion, till Joba de la Coffe's devils led me the round you fee marked D;—for as for e e e e e they are nothing but parenthefes, and the common ins and outs incident to the lives of the greateft minifters of ftate; and when com-

"Writing, when properly managed (as you may be sure I think mine is) is but a different name for conversation: As no one, who knows what he is about in good company, would venture to talk all;-- so no author, who understands the just boundaries of decorum and good breeding, would presume to think all: The truest respect which you can pay to the reader's understanding, is to halve this matter amicably, and leave him something to imagine, in his turn, as well as yourself."

The desire for the reader to participate. Writer and author as partners in the creation of the work.

12



The 20th Century

Ellery Queen

- The Roman Hat Mystery (1929), the first Ellery Queen novel, introduced the Challenge to the Reader
- The series was so popular it lasted for over four decades, with dozens of novels and many TV and radio incarnations
- Books with rules, e.g. S.S. Van Dine's 1928 "Twenty Rules for Writing Detective Stories."

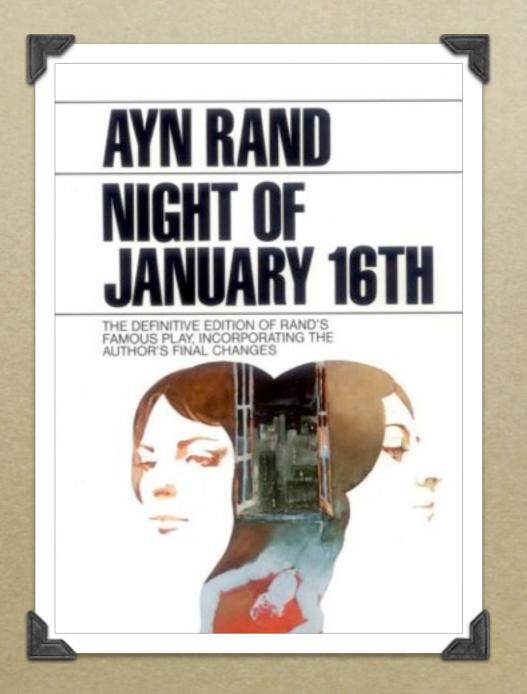
Reader: Can you solve The Dutch Shoe Mystery?

By page 177 you will be in possession of all the facts concerning the murder of Abigail Doorn. No tricks, no catches. The killer is practically shouting his name. Can you get him before Ellery Queen does?

Night of January 16th

• Ayn Rand, 1936

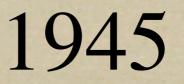
- Courtroom drama where twelve jurors are chosen from audience and sit on stage; at the end of the play, they deliberate and announce their verdict
- Author saw it as a cheap gimmick, but it was wildly popular

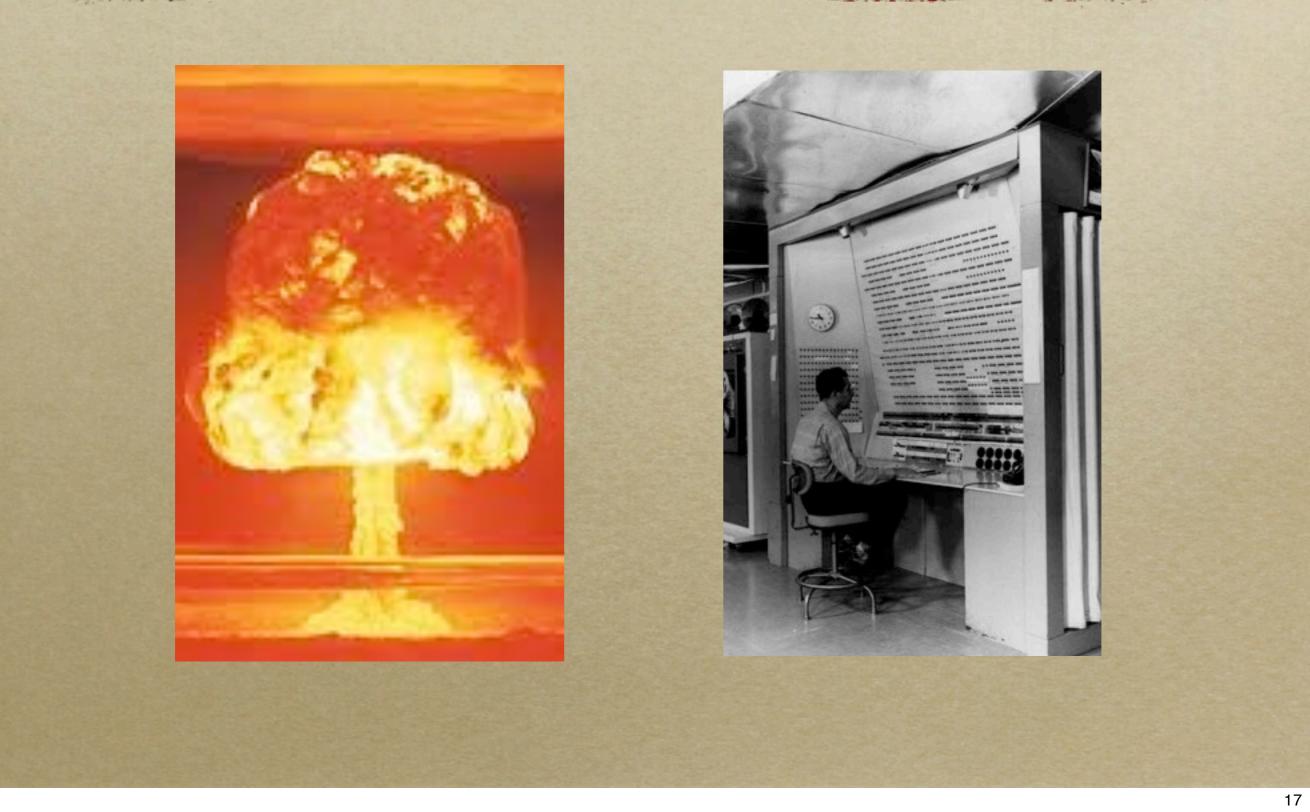


"I am still asked, once in a while—and it always astonishes me-whether I intended Karen Andre to be found guilty or not guilty. I did not think that there could be any doubt about my verdict: of course, she is not guilty."

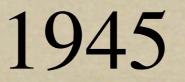


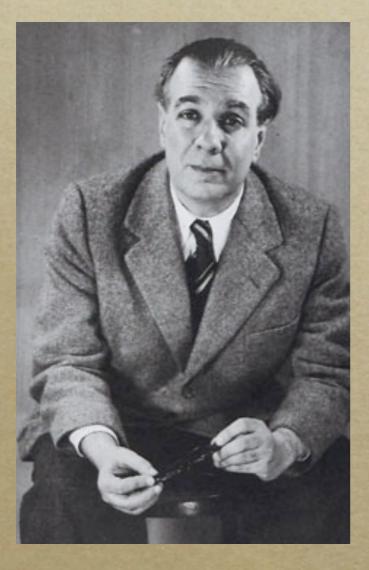
The idea of letting the audience have any power still very foreign. As with Burning Pestle-- a gimmick-- and Shandy-- not technically possible.





October 1941-- Roosevelt approves atom bomb program with Vannevar Bush as director June 1943-- ENIAC project begins, to calculate artillary firing tables. August 1945 -- Bomb dropped on Hiroshima. Feb 1946 -- ENIAC announced to public. The world was profoundly changed.





Jorge Luis Borges The Garden of Forking Paths Vannevar Bush "As We May Think"

18

In the wake of these changes, two short pieces of writing that would alter the next generation of thinkers.

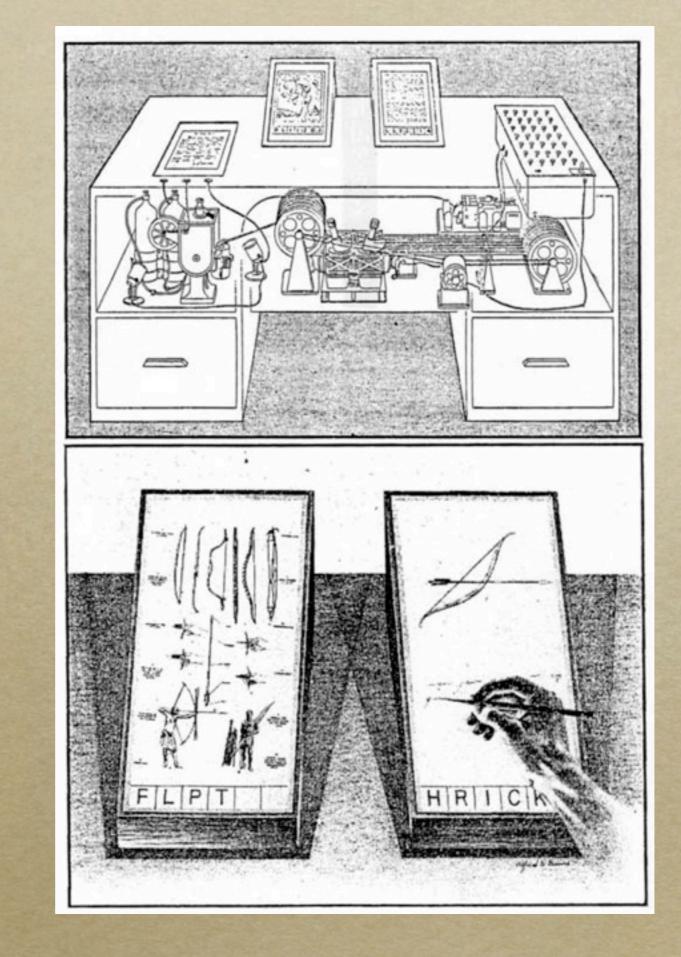
"As We May Think"

- Essay by Vannevar Bush, first published in 1945
- Bush was scientific advisor to Roosevelt and key player in development of the atomic bomb
- As the war came to a close he became anxious to improve the future of humanity.



"Professionally **our methods of transmitting and reviewing the results of research are generations old and by now are totally inadequate for their purpose**. ...Mendel's concept of the laws of genetics was lost to the world for a generation because his publication did not reach the few who were capable of grasping and extending it; and this sort of catastrophe is undoubtedly being repeated all about us...

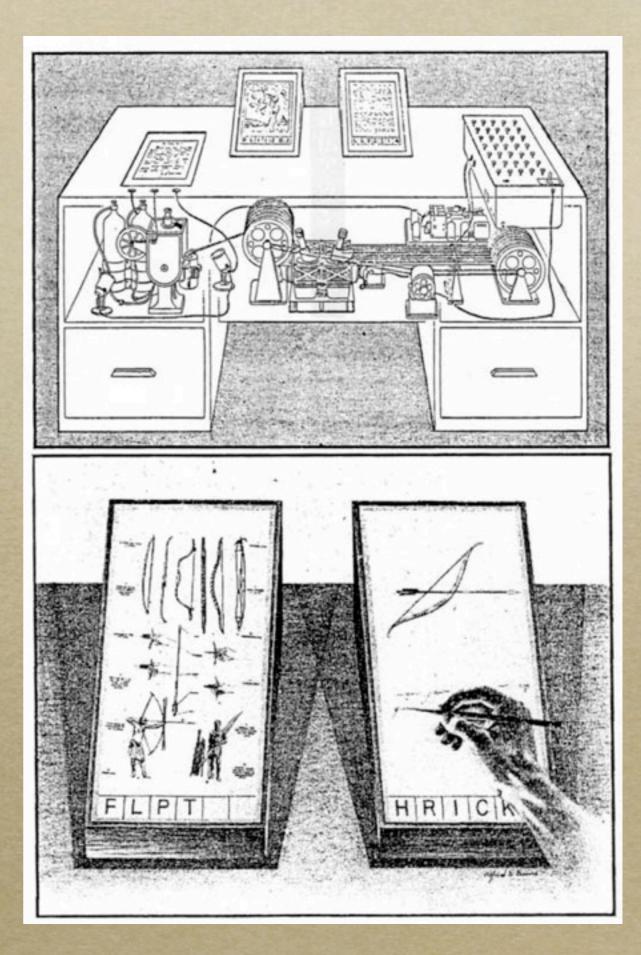
"Our ineptitude in getting at the record is largely caused by the artificiality of systems of indexing. When data of any sort are placed in storage, they are filed alphabetically or numerically... The human mind does not work that way. It operates by association. With one item in its grasp, it snaps instantly to the next that is suggested by the association of thoughts, in accordance with some intricate web of trails carried by the cells of the brain. ...Selection by association, rather than indexing, may yet be mechanized."





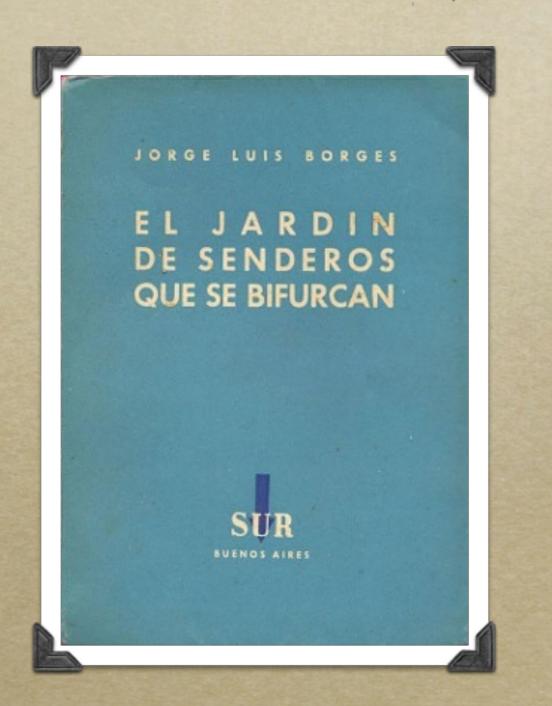
 The Memex was never built, but...

• "As We May Think" was hugely influential on many pioneers of the personal computing era, including Doug Engelbart (who invented the mouse and word processor) and Ted Nelson (who coined the term hypertext).



The Garden of Forking Paths

- Jorge Luis Borges (1941; first English translation 1946)
- Borges is now widely considered among the finest Spanish language writers of the 20th century
- First published in the US in Ellery Queen magazine (!)

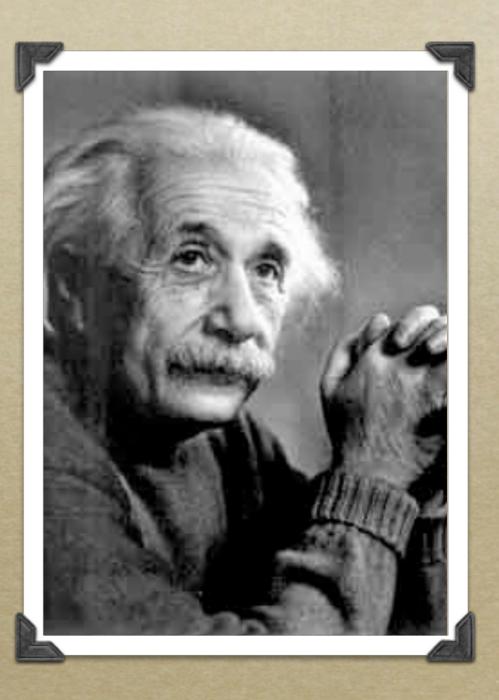


"Ts'ui Pên must have said once: *I am withdrawing to write a book.* And another time: *I am withdrawing to construct a labyrinth.* Every one imagined two works; to no one did it occur that **the book and the maze were one and the same thing**...

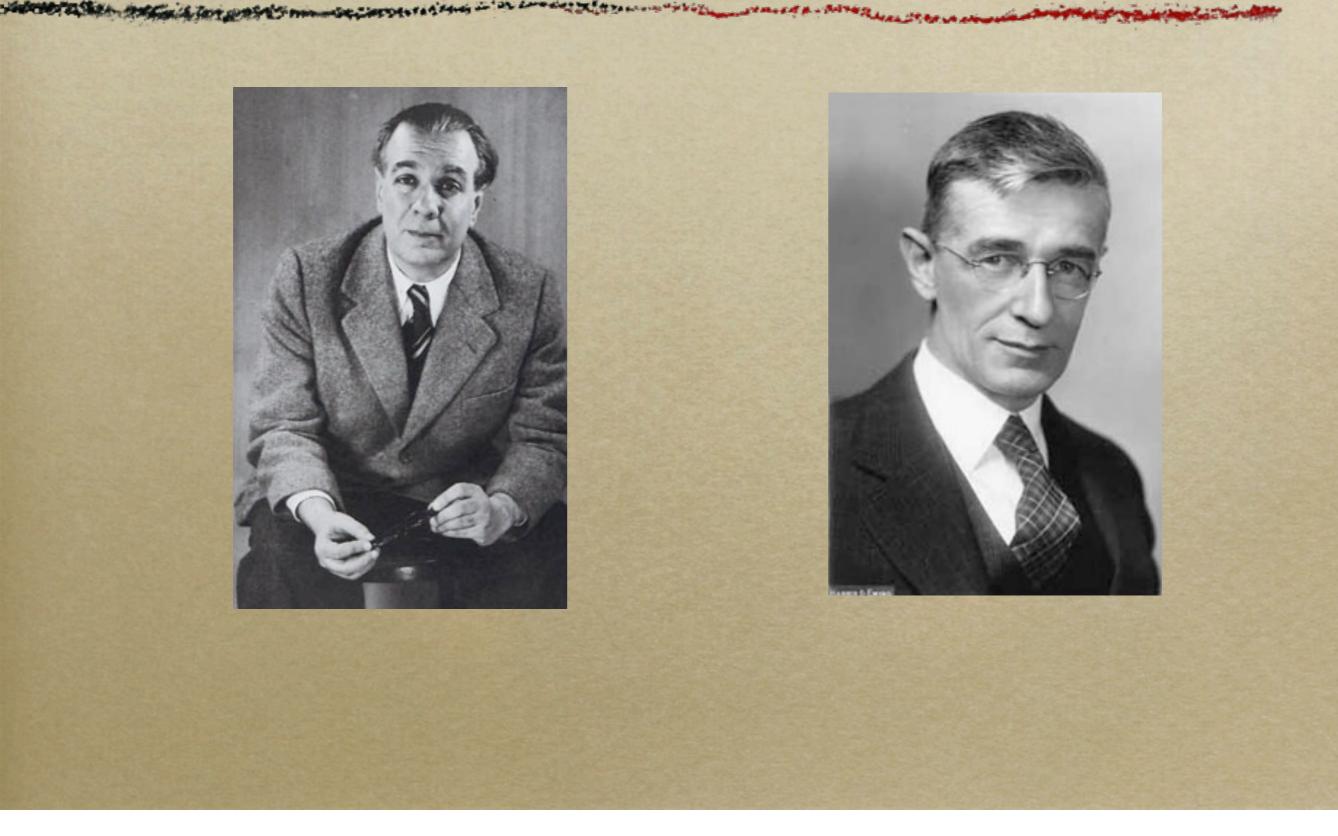
"In all fictional works, each time a man is confronted with several alternatives, he chooses one and eliminates the others; in the fiction of Ts'ui Pên, he chooses--simultaneously--all of them. *He creates*, in this way, diverse futures, diverse times which themselves also proliferate and fork."

Quantum mechanics

- Space...
- time...
- measurement...
- reality!...
-are all not what we thought they were.



Involved in the nuclear development; maybe these ideas weren't so crazy after all.



Borges created an artistic response to a world threatened by atomic technology. Bush created a scientific response to the problem of technological proliferation. The generation of thinkers they inspired gave birth to hypertext.

BREAK!

worker the second and the

The Oulipo and Potential Literature

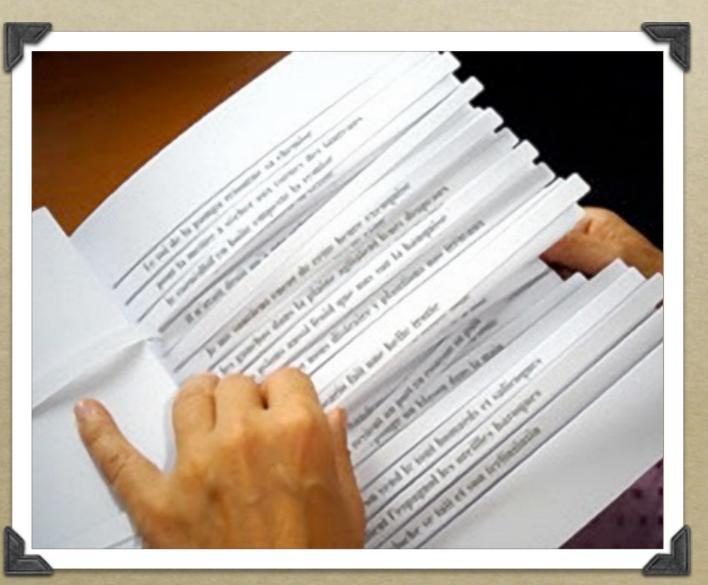
- <u>Ouvroir de Littérature Po</u>tentielle (workshop of potential literature)
- Potential literature...

odipo

- "is that which awaits a reader, which yearns for him,
 which needs him in order to fully realize itself"
- "[is] work... which willingly lends itself to exploration."
- "heavily relies on the active participation of readers."

Cent mille milliards de poèmes

- (Hundred Thousand Billion Poems), 1961
- Raymond Queneau
- Ten sonnets of ten
 lines with same rhyme
 scheme; can be
 combined in 10¹⁴
 different ways



"Un Contre à votre façon"

- Queneau, 1967
- "inspired by the presentation of the instructions given to computers"

 first "Choose your own adventure" 1. Do you wish to hear the story of the three alert peas?

> if yes, go to 4 if no, go to 2

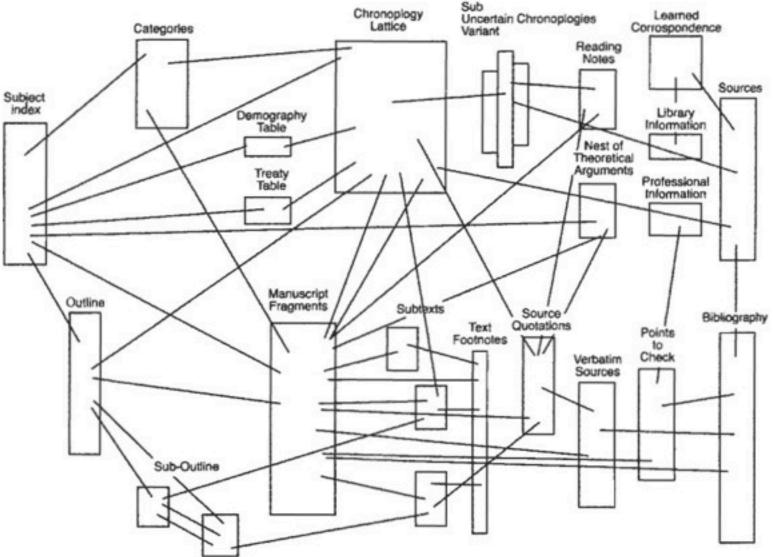
"We regret having no access to machines: this is a common *lamento* during our meetings."

The Birth of Hypertext

- "A File Structure for the Complex, the Changing, and the Indeterminate" (Ted Nelson, 1965)
 - "The kinds of file structures required if we are to use the computer... as an adjunct to creativity are wholly different in character from those customary in business and scientific data processing. They need to provide the capacity for intricate and idiosyncratic arrangements, total modifiability, [and] undecided alternatives..."

Specifically mentions attempt to create Bush's ideas.

"Let me introduce the word 'hypertext' to mean a body of written or pictorial material interconnected in such a complex way that it could not conveniently be presented or represented on paper."



"...non-sequential writing..."

33

computers + nonlinear writing

stand a . Adver

The Web is the most famous example

HTML (HyperText Markup Language)

- One particular implementation of Nelson's ideal, although leaves out many of his ideas:
 - "HTML is precisely what we were trying to PREVENT — ever-breaking links, links going outward only, quotes you can't follow to their origins, no version management, no rights management."

computers + nonlinear writing

stand a . Adver

computers+ nonlinear (fiction) writing

+ nonlinear (fiction) writing

Electronic Literature

Electronic Literature

stranger to the second stranger

e-poetry

MUDs

Sector Stading - 2

Hypertext fiction

Interactive fiction (IF)

marrie - Alter August

choice-based narrative

39

Electronic Literature

stranger to the second stranger

e-poetry

MUDs

Sector Stading - 2

Hypertext fiction

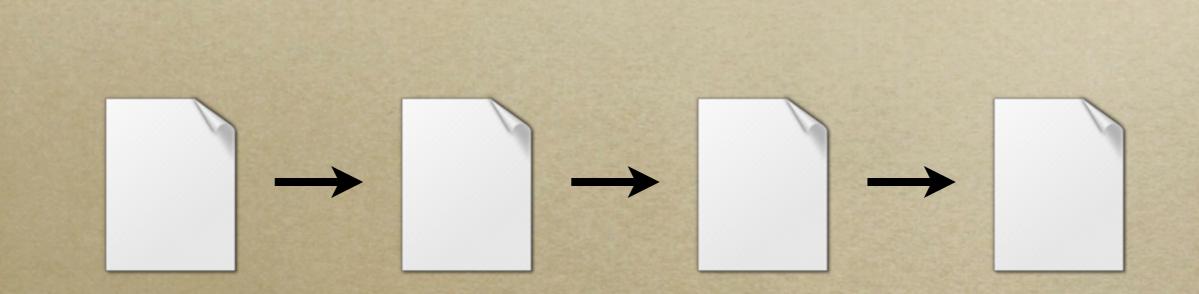
Interactive fiction (IF)

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choice-based narrative

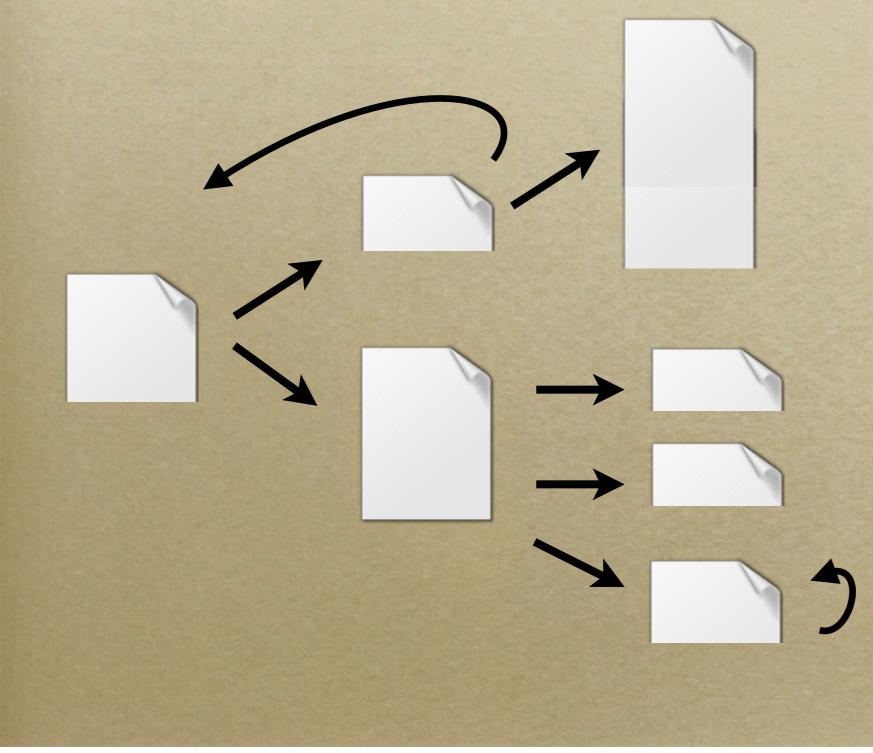
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Linear Fiction



Fixed-length pages connected in static order

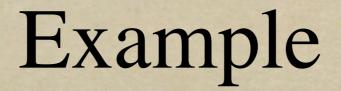
Hypertext Fiction



Pages (*lexia*) can be of arbitrary length; can connect (*link*) to each other in complicated ways.

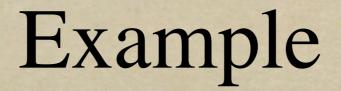
Hypertext Fiction

Instead of pages, lexias
A lexia can be titled
Non-linear pathways
Lexias connected intentionally: the link is part of the meaning



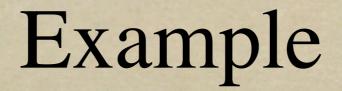
When I was a kid, I used to hate my father.

There's that tapping sound again. Tap, tap.



When I was a kid, I used to hate my father.

There's that tapping sound again. Tap, tap.



When I was a kid, I used to hate my father.

There's that tapping sound again. Tap, tap.

• Text + link = new structure for conveying meaning

Guard Fields

When I was a kid, I used to hate my father.

(only a link if "Moved to New House" lexia has been seen)

There's that tapping sound again. Tap, tap.

Example of something you can't do with pure HTML.

(What about these things?)

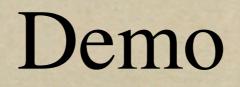


But couldn't these exist on paper?

Some have guard fields, which starts to be systematic. Technically anything could be on paper. But a more accurate definition is we're looking for systems.

Hypertext terms revisited

lexia (node)
link
path (traversal)
guard fields



THEFT & A DATES

"The (Former) General in His Labyrinth," Mohsin Hamid, 2008