searching for information

the world according to grep
what are we searching for?

information?

records?

the record of ideas

... the summation of experience

Vanevar Bush, "As we may think," 1945

words

McLuhan's nightmare?

more?

life, liberty & the pursuit of happiness
The next morning I [Doug McIlroy] found a note in my mail announcing a program named grep. It worked like charm. When asked what that funny name meant, Ken [Thompson] said it was obvious. It stood for the editor command that it simulated, g/re/p (global regular expression print)....

The date given for the creation of grep is March 3, 1973, following the creation of pipes -- Netizens: An anthology: 1996

prior art?

thematic ordering

alphabetical ordering

concordances

indexes
changing ideas of organization?

**google**

"to organize the world's information"

**prior art?**

WAIS
Veronica
Alta Vista
Yahoo

**order is elsewhere?**

natural?
emergent?
"Up until now most search engine development has gone on at companies with little publication of technical details. This causes search engine technology to remain largely a black art and to be advertising oriented (see Appendix A). .. we have a strong goal to push more development and understanding into the academic realm."
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For example, in our prototype search engine one of the top results for cellular phone is "The Effect of Cellular Phone Use Upon Driver Attention", a study which explains in great detail the distractions and risk associated with conversing on a cell phone while driving. This search result came up first because of its high importance as judged by the PageRank algorithm, an approximation of citation importance on the web [Page, 98]. It is clear that a search engine which was taking money for showing cellular phone ads would have difficulty justifying the page that our system returned to its paying advertisers. For this type of reason and historical experience with other media [Bagdikian 83], we expect that advertising funded search engines will be inherently biased towards the advertisers and away from the needs of the consumers.
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search for information

memish?

presentism

information a historical constant

information-technology determinism

the thirst for information drives information technology

whiggishness

a long, linear progression from closed to open
presentism

"every society is an information society and every organization and information organization"--Andrew Oettinger, "Information Resources," 1980

"every age was an age of information, each in its own way ... hearsay did not satisfy Parisians with their powerful appetite for information"--Robert Darnton, "An Early Information Society," 2000

"coping with information overload, ca 1550–1700" --Ann Blair, 2003
universalism?

information:
goods, price, quality, suppliers, clients

Some recent developments in economic theory having to do with the role of information ...

Spence .. Stigler ... Arrow ... Akerlof ...
Rees .. provide an analytical framework ...
understanding how bazaars work. ...

The search for information... the central experience of life in the bazaar
two most important search procedures...
clientelization and bargaining

--Clifford Geertz, "The Bazaar Economy Information and Search in Peasant Marketing," 1978
"The need for readily available information, which had been steadily rising, was accelerated by the advent of Christianity. ... "The need to find information more rapidly than is possible in a papyrus-roll-form book initiated the development of the Greco-Roman codex in the second century ..."

"we went to the libraries because that's where the information is" --Dan Clancy

"books ... tree flakes encased in dead cow"

Bill Mitchell

"The external make-up of a book, its format and the personality of its author are unimportant provided that its substance, its sources of information and its conclusion are preserved and can be made an integral part of the organization of knowledge, an impersonal work, created by the efforts of all ... the ideal ... would be to strip each article or each chapter in a book of whatever is a matter of fine language or repetition or padding and to collect separately on cards whatever is new and adds to knowledge." --Paul Otlet
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contrasting narratives?
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"information wants to be free"
–Stewart Brand
contrasting narratives?

"information wants to be free"
-Stewart Brand

or
contrasting narratives?

"information wants to be free"
- Stewart Brand

or

"information wants to be expensive"
contrasting narratives?

"information wants to be free"
-Stewart Brand

or

"information wants to be expensive"

or
contrasting narratives?

"information wants to be free"
-Stewart Brand

or

"information wants to be expensive"

or

information wants to be constrained?
Searching for information

old and new stories

"The second paid link pointed to the epic Gilgamesh ...[which], the site instructed me, recounts mankind's 'longing stretch toward the infinite.' In my search for immortality, I had found the oldest known author in the history of Western civilization.

"to become immortal through words pressed in clay"

John Battelle, The Search, 2005

Sippar c 600 BC

Nineveh
"the first systematically collected library in the ancient Near East"
He came a far road, was weary, found peace, 
and set all his labours on tablets of stone
...
See the tablet box of cedar,
**Release** its clasp of bronze
Lift the lid of its secret
Pick up the tablet of lapis lazuli
and read out
the travails of Gilgamesh,
all that he went through

--Gilgamesh, 3000 bce
[trans Andrew George]
words in clay?

He came a far road, was weary, found peace, and set all his labours on tablets of stone...
See the tablet box of cedar, Release its clasp of bronze
Lift the lid of its secret
Pick up the tablet of lapis lazuli and read out the travails of Gilgamesh, all that he went through

--Gilgamesh, 3000 bce
[trans Andrew George]
liberation technology

to a man with a hammer ...

"seek to substitute an algorithm
... for intuitive judgement"
Russia thrusts into South with Georgia reported
5 hours ago

JAVA, Georgia (AFP) — Russian tanks and troops in Ossetia province on Friday to repel a Georgian official, who said to have left hundreds dead.

"Fierce clashes" between Russian and Georgian troops in Ossetia's capital Tskhinvali were reported by Russ
Searching for information

hammering

United Airlines stock price on Sept. 8, 2008
One-minute intervals

United's Tough Morning
Investors wiped out $1 billion of the market value of UAL, United Airlines's parent, after the erroneous news flash; the stock price nearly recovered when trading resumed.

Source: Bloomberg
UAL files for bankruptcy

Chicago airline will try to stanch losses that have reached $22 million a day

By John Schmeltzer and Tom McCann | Tribune staff reporters

After 76 years as a Chicago business icon, United Airlines on Monday began mapping plans for a fresh start.

United became the biggest airline to go bankrupt, revealing that it is losing as much as $22 million a day—three times the losses it had earlier disclosed.

To survive, United must reinvent itself with the help of its unionized employees, company Chairman and CEO Glenn Tilton said. He emphasized that message in appearances outside U.S. Bankruptcy Court in the Loop and at O'Hare International Airport.

Tilton also offered the first glimpse at his strategy for saving United. He said the carrier must cut operating costs by at least 30 percent to compete with other full-service airlines.
Police in Germany have admitted that a woman they have been hunting for more than 15 years may never have existed.

Dubbed the "phantom of Heilbronn", the woman was dubbed by police as the country's most dangerous woman.

Investigators had connected her to six murders and an unsolved death based on DNA traces found at the scene.

Police are now acknowledging that swabs used to collect DNA samples may have been contaminated by an innocent woman - possibly during manufacture.

'Serial killer'

She was Germany's most wanted woman, alternatively called the "woman without a face" and the "phantom of Heilbronn" after the city in southern Germany where she allegedly killed a policewoman.

Police suspected the unnamed woman of being a serial killer who over 16 years carried out a string of six murders, including strangling a pensioner.

Their suspicions were based on traces of identical female DNA they found at 40 crime scenes across southern Germany and Austria.
Searching for information in search of information

the Christian codex

Christians as information foragers?

"The need for readily available information, ...accelerated by the advent of Christianity."

trivializing the scroll

external arrangements:
Zenodatus & Callimachus

internal arrangement: incipits, explicitis, sylliboi, pages

"the revolution between the second and fourth centuries that changed the very structure of the book by substituting the codex for the roll"

Roger Chartier, Forms and Meaning 1995
info-determined?

undoubted advantages
margins & marginalia
from the page to the spread
two sides; one hand
random access, more durable

a triumph of paper?
papyrus, vellum, palm, bark ...

or a matter of distinction?
info-determined?

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or a matter of distinction?
the next step: ms to print

the 'new' search tools
- gloss
- running titles
- subdivisions: books, chapters
- analytical tables of contents
- chapter headings
- cross references
- alphabetical order
- page numbers, indexes

trivializing again
"The late medieval book differs more from its early medieval predecessors than it does from the printed book."
---Parkes, "Influence" 1976
the short step from Gutenberg to Google

"[Theodore] De Vinne, in his book [The Invention of Printing, 1879] writes, 'The inventor of printing did not invent paper .. did not originate engraving on wood. He was not the first to print upon paper, he was not the first to make printed books, it is not certain that he made the first press, it is not probable that he was the first to think of or make movable type. What he did was to invent the type mold.'

the short step from Gutenber to Google

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It was the type mold that the Koreans developed."

Searching for information

the print book: a triumph of the west?

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It was the type mold that the Koreans developed.
the need for search

diffusion: looking for patterns

Christian codex, 2d century

Islamic codex, 8th century

Hebrew codex, 9th century

Chinese sutra fold, 10th century
the need for search
the need for search

diffusion: looking for patterns

paper: China 3d century bc

Islam, 8th century

Byzantium, 9th century

Europe 12th century
still looking

an information foraging imperative?

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<td>Korea</td>
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<td>India</td>
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<td>6th cent*</td>
<td>19th cent</td>
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<td>Islam</td>
<td>8th cent ad</td>
<td>8th cent</td>
<td>19th cent</td>
<td>19th cent</td>
</tr>
<tr>
<td>Europe</td>
<td>12th cent ad</td>
<td>2d cent</td>
<td>15th cent</td>
<td>15th cent</td>
</tr>
</tbody>
</table>
linear or cyclical?
Mrs Wales?

"Experience, though noon auctoritee
Were in this world, were right ynogh to me
To speke of woe that is in mariage"

Geoffrey Chaucer,
"The Wife of Bath's Prologue and Tale,"
c. 1390
Well, old man, I will tell you news of your son: give me your blessing: truth will come to light; murder cannot be hid long; a man's son may, but at the length truth will out.

Shakespeare, Merchant of Venice

And though all the winds of doctrine were let loose to play on the earth, so Truth be in the field, we do injuriously by licensing and prohibiting misdoubt her strength. Let her and Falsehood grapple; who ever knew Truth put to the worse in a free and open encounter?

Milton, Areopagitica
One Argument More Against the Cavaliers; taken from their violation of churches.

Whereas the Covenants are fully Disputted Their two Questions.

Whether the Separatists (who are casted) who makes his lynch (or as it is
fail) his Baron a Church, is more scandalous or the Cavalier (who dishe-
ve another way in his discourse and Preaching) both at Oxford where
his Wench resides, turned Churches (with Revenge being a prick) into
Priests, and seeks, and so forth at many places now Stabists.

Whether Churches were preferred, and gotten from
Gracy, and Mowrence, as by the Bishop
to be Reconstrued.

London: may 1622. 1623.
Printed in the yeare when men think what they list and speak the
praise what they think.

Searching for information going open
English revolution freedom of the press unlicensed printing

a dialogue between readers and experts "informing" and "correcting"
Searching for information going open English revolution freedom of the press unlicensed printing

A dialogue between readers and experts "informing" and "correcting"
going closed

licensing

copyright

stamp tax
"Men did generally think, that no man was fit to meddle in matters of this consequence, but he that had bred himself up in a long course of Discipline for that purpose; that had the habit, the gesture, the look of a Philosopher. Whereas experience on the contrary tells us, that greater things are produc'd, by the free way, than the formal." - Sprat
going closed?
The CONTENTS.

I. Some Remarks on a late Essay of Mr. Cassini, wherein he proposes to find, by Observation, the Parallax and Magnitude of Sirius. By Edmund Halley, L. L. D. Allison, Reg. Geom. Prof. Savil. & R. S. S.

II. An Account of the External Maxillary, and other Salivary Glands: Also of the Infections of all the Lymphaticks (as well above as below the Subclavius) into the Penis; which Glands and Infections have not Elocution been mentioned, or not truly described by any Authors. By Richard Hale, M. D. Reg. Soc. & Col. Med. Lond. Soc.

III. Dr. P. Costamancopoli graeaeus. Authors unknown

V. Of the Infinity of the Sphere of Fixed Stars. By Edmund Halley, L. L. D. R. S. S.

VI. Of the Number, Order, and Light of the Fixed Stars. By the same.

VII. An Account of the Method of making Sugar from the Juice of the Maple Tree, in New England. By the Honorable Mr. Dudley, Alg. R. S. Communicated by John Chamberlayne, Esq.

VIII. A Copy of an Affidavit made in Scotland, concerning a Boy’s living a considerable time without Food. Communicated by Patrick Blair, M. D. F. R. S.

IX. A Discreet concerning a Method of discovering the Virtues of Plants by their External Structure. By the same.

X. An Account of a Book, Entitled, Geometria Organica. five Deceptio Linarum Curvarum Universalia. Author Colino MacLaurin, Mathematician at College Novo Aliquenost Prefectus, & R. S. S.
whiggish institutions

institutions for enlightenment

market: Bank of England/Stock Exchange

science: Royal Society

finding aids?
circling around
the question
circling around the question

search, v.

[a. OF. cerchier (mod.F. chercher), corresp. to Pr. cercar, It. cercare to seek, Sp., Pg. cercar to surround:—late L. circare to go round, f. L. circus circle.]

1. To explore, examine thoroughly.

1. trans. To go about (a country or place) in order to find, or to ascertain the presence or absence of, some person or thing; to explore in quest of some object.
circling around the question
circling libraries

Smirke, British Museum Reading Room, 1851

Peliz/Casey Reading Room, LOC, ca 1898

Labrouste, Bibliothèque Nationale 1868

Asplund, Stockholm City Library, 1928
institutions of the enlightenment

collection to selection
  encyclopaedias
dictionaries
  trésors
  scholarly editions
  fourth estate
  university
open again

French Revolution
copyright
patents
trademarks

new science

"plea for liberty in science and equity for the unrecognized genius" --Gachet

"popular medicine infinitely preferable to, and more certain than, all the often erroneous practices of our physicians"

Nouveau Plan ... pour la Médecine en France, 1790
Searching for information

law reports

going open again

“It has long been considered a practicable scheme for any barrister and bookseller who unite together with a view to notoriety or profit, to add to the existing list of law reports”.

"... indiscriminately reporting cases ... the enormous mass of constantly accumulating materials ... these evils .. attributable to .. the multiplication of contemporaneous Reports .. has arisen from applying the principle of competition to correct the evils of prolixity, delay, and expense incident to the system of authorized reporting. ... new evils created .. confusion and uncertainty in the law producing perplexity in the administration of justice.

-- W.T.S. Daniel, History and Origin of Law Reports, 1884
authority needed
“new evils [that] created confusion and uncertainty in the law.”

law amendment: closing in again
the official reports
what are we searching for?

... authority?

Christianity
monastic copying, Carolingian minuscule

Islam
"the golden chain"

Byzantium
the university

China
the National Academy

general government control
copyright; stationers ...
encyclo vs paedia?

resources and constraints
newspaper

invisible institutions
digicash
"Peer production is limited not by the total cost or complexity of a project, but by its modularity, the granularity of its components, and the cost of integration"

-Yochai Benkler
Searching for information

Making a case

Daniel Defoe

From Wikipedia, the free encyclopedia.
Revision as of 08:44, 11 October 2005; view current revision
← Older revision | Newer revision →

Daniel Defoe (1660 – April 24, 1731) was an English writer and journalist, who first gained fame for his novel Robinson Crusoe. Defoe is also notable for being arguably the earliest constant practitioner of the novel form.

Contents

1 Biography
2 Defoe and the Anglo-Scottish Union of 1707
3 Quotations
4 See also
5 Electronic books

Biography

Born Daniel Foe, the son of James Foe, a butcher in Stoke Newington, London. He later added the aristocratic sounding "De" to his name as a nom de plume. His gravestone gives his name as DANIEL DE-FOE. He became a famous pamphleteer, journalist and novelist at a time of the birth of the novel in the English language, and thus fairly ranks as one of its progenitors.

His parents were Presbyterian dissenters, and he was educated in a Dissenting Academy at Stoke Newington. His early business activities were unsuccessful, and he was bankrupted in 1692. By 1696, however he was the manager of a London tile factory.
Searching for information on making a case
Title  The life and adventures of Robinson Crusoe / written by himself
Author  Defoe, Daniel, 1661?-1731.

Daniel Defoe

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Revision as of 06:44, 11 October 2005: view current revision
Older revision • Newer revision →

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(re-added gravestone info, it demonstrates that he accepted a name, varied from his birthname.)
"I strongly suspect that most English speakers would only recognize Defoe through RC; the Esperanto article mentions two or three translations of Robinson Crusoe, but no other works of Defoe, and a quasi-random sampling of the Library of Congress catalog turned up a number of translations of RC into French, German and Japanese, but no obvious translations of any of Defoe's other works."

**Daniel Defoe** (1660-April 24, 1731) was an English writer and journalist, who first gained fame for his novel Robinson Crusoe.

**entropy in action**

"He is most famous for his novel [RC]"-- 9/02

"He became a famous pamphleteer, journalist and novelist"--1/04

"He became famous for [RC]"--10/04

"He first became famous for [RC]"--11/04
defoe revisited

Daniel Defoe
From Wikipedia, the free encyclopedia.

Daniel Defoe (c. 1659-1661 — 24 April 1731[^1]), born Daniel Foe, was an English writer, journalist, and pamphleteer, who gained enduring fame for his novel *Robinson Crusoe*. Defoe is notable for being one of the earliest practitioners of the novel, as he helped to popularise the form in Britain, and is even referred to by some as one of the founders of the English novel.[^2]

A prolific and versatile writer, he wrote more than five hundred books, pamphlets, and journals on various topics (including politics, crime, religion, marriage, psychology and the supernatural). He was also a pioneer of economic journalism.
Daniel Defoe died on April 26, 1731, probably whilst in hiding from his creditors. He was interred in Bunhill Fields, London, where his grave can still be visited.
assuming structure

the constraint-resource problem
"artificial impediments" --Dan Clancy

books for "those addicted to tree flakes encased in dead cow" --Bill Mitchell, MediaLab
A manual of trade-mark cases: Comprising Sebastian's Digest of trade-mark ... By Rowland Cox, Lewis Boyd Sebastian, Great Britain. Courts

**TABLE OF CASES.**

The numbers refer to the numbers of the cases.

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assuming structure
Assuming structure...
assuming structure
The origin of species by means of natural selection:
what's in a name?

1. vol 1 [1894] ... where's vol 2 ... how many?
2. vol 1 [1904] ... where's vol 2 ...?
3. vol 2 [1906] ... where's vol 1 ...?
4. vol 2 [1895] ... where's vol 1 ...?
5. vol 1 [1895] ... there's vol 1
6. 1 vol edition [1893]
7. vol 1 [1847] ...
8. ...11. vol 3 [1791-given as 1761] ...
9. 12. vol 2 [nd] ..opens with Bk IV ...
10. ...14. Webster's Chinese
11. ... 16. v 8 of 10 vol 1788 edn. Sermons
what's in a book?

Hints to Mothers on the Management of their Health during the Period of Pregnancy and in the Lying-in Room
With an Exposure of Popular Errors in connexion with those subjects, &c. - Page 6
Appears in 1255 books from 1823-2007

Richard II.

Popular passages
Page 129 - The king, to escape from this peril said, "Gentlemen, gentlemen, I pray you conduct me and my son in a courteous manner to my cousin the prince; and do not make such a riot about my capture, for I am so great a lord that I can make all sufficiently rich.
Appears in 28 books from 1806-2007
King Lear

Reviews

Editorial Review - School Library Journal vol. 55 iss. 9 p. 186 (c) 09/01/2009
Gr 8 Up – These books depict Shakespeare's plays through black-and-white paneled storytelling. Much Ado is set in Italy during the late 1800s, using Victorian clothing to set the scene. Vieceli uses different styles of manga art with great effect, from "chibi" or "super-deformed" characters to show excessive cuteness or childish banter to the dramatic, overflowing tears that exaggerate a character...
graham's law
“The method of ensuring quality” in peer production is “Darwinian ...
People just produce whatever they want; the good stuff spreads, and the bad gets ignored”

--Paul Graham
If you see an error in the data for a favorite CD, or the data is incomplete, or the service does not recognize the CD at all, you can submit changes or additions to the database maintained by the service. In turn, you benefit from the processed submissions from the millions of other fans who have ever used the service. In addition, Gracenote staff are constantly entering and correcting disc entries by hand and working with artists and labels.
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cataloguing 52 million tracks
song -- artist -- album -- genre

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cataloguing 52 million tracks
song -- artist -- album -- genre

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Gutenberg *Pan*

And when she comes, my heart knows all, and no longer beats like a heart, but rings as a bell. I lay my hand on her.

"Tie my shoe-string," she says, with flushed cheeks.
Penguin Pan:
"And when she comes my heart understands, and it no longer beats, it peals. And she is naked under her dress from head to foot. I lay my hand on her.

"Tie my shoelace," she says with flaming cheeks. And a little later she whispers directly against my mouth, against my lips, Oh, you're not tying my shoelace, sweetheart, you're not tying ... not tying my ..."
Penguin Pan:
"And when she comes my heart understands, and it no longer beats, it peals. And she is naked under her dress from head to foot. I lay my hand on her.

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The first version by W.W. Worster (Knopf, 1921), was bowdlerized, all the expressly erotic elements, however innocuous, having been deleted.
material matters

Project Gutenberg:

The Life and Opinions of Tristram Shandy, Gentleman.

A work by Laurence Sterne

(two lines in Greek)
By inspection into his horoscope, where five planets were in coition all at once with Scorpio (Haec mira, satisque horrenda. Planetarum coitio sub Scorpio Asterismo in nona coeli statione, quam Arabes religioni deputabant efficit Martinum Lutherum sacrilegum hereticum, Christianae religionis hostem acerrimum atque prophanum, ex horoscopi directione ad Martis coitum, religiosissimus obiit, ejus Anima scelestissima ad infernos navigavit--ab Alecto, Tisiphone & Megara flagellis igneis cruciata perenniter.--Lucas Gaurieus in Tractatu astrologico de praeteritis multorum hominum accidentibus per genituras examinatis.) (in reading this my father would always shake his head) in the ninth house ...
By inspection into his horoscope, where five planets were in coition all at once with Scorpio (Haec mira, satisque horrenda. Planetarum coitio sub Scorpio Asterismo in nona coeli statione, quam Arabes religioni deputabant efficit Martinum Lutherum sacrilegum hereticum, Christianae religionis hostem acerrimum atque prophanum, ex horoscopi directione ad Martis coitum, religiosissimus obiit, ejus Anima scelestissima ad infernos navigavit—ab Alecto, Tisiphone & Megara flagellis igneis cruciata perenniter.—Lucas Gaurieus in Tractatu astrologico de praeteritis multorum hominum accidentibus per genituras examinatis.) (in reading this my father would always shake his head) in the ninth house...
in coition all at once with Scorpio (in reading this my father would always shake his head) in the ninth house, which the Arabians allotted to religion—it appeared that Martin Luther did not care one stiver about the matter—and that from the horoscope directed to the conjunction of Mars—they made it plain likewise he must die cursing and blaspheming—with the blast of which his soul (being steeped in guilt) sailed before the wind, into the lake of hell.
Ten times a day has Yorick's ghost the consolation to hear his monumental inscription read over with such a variety of plaintive tones, as denote a general pity and esteem for him;--a foot-way crossing the church-yard close by the side of his grave,--not a passenger goes by without stopping to cast a look upon it,--and sighing as he walks on, Alas, poor Yorick!

Chapter 1.XIII.
It is so long since the reader of this rhapsodical work has been parted from the midwife, that it is high time to
Ten times a day has Yorick's ghost the consolation to hear his monumental inscription read over with such a variety of plaintive notes, as denote a general pity and esteem for him;—a foot-way crossing the church-yard close by the side of his grave,—not a passenger goes by without stopping to cast a look upon it,—and sighing as he walks on,

**Alas, poor YORICK!**

Inscription serving both for his epitaph and elegy.
easily fixed?
easily fixed?
easily fixed?

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Around this time Joyce was attacked by a dog; this resulted in a lifelong canine phobia. He also suffered from a fear of thunderstorms, which his deeply religious aunt had described to him as being a sign of God's wrath.[2]

In 1891, Joyce wrote a poem, *Et Tu Healy* on the death of Charles Stewart Parnell. His father was angry at the treatment of Parnell by the Catholic church and at the resulting failure to secure Home Rule for Ireland. The elder Joyce had the poem printed and even sent a part to the Vatican Library. In November of that same year, John Joyce was entered in *Stubbs Gazette* (an official register of bankruptcies) and suspended from work. In 1893, John Joyce was dismissed with a pension. This was the beginning of a slide into poverty for the family, mainly due to John's drinking and general financial mismanagement.[3]

James Joyce began his education at Clongowes Wood College, a Jesuit boarding school near Clane in County Kildare, which he entered in 1888 but had to leave in 1892 when his father could no longer pay the fees. Joyce then studied at home and briefly at the Christian Brothers school on North Richmond Street, Dublin, before he was offered a place in the Jesuits', Dublin school, Belvedere College, in 1893. The offer was made at least partly in the hope that he would prove to have a vocation and join the Order.....[4]

He enrolled at the recently established University College Dublin (UCD) in 1898. He studied modern languages, specifically English, French and Italian. He also became active in theatrical and literary circles in the city. The article *Ibsen's New Drama*, his first published work, was published in 1900 and resulted in a letter of thanks from the Norwegian dramatist himself. ...

After graduating from UCD in 1903, Joyce left for Paris to "study medicine", but in reality he squandered money his family could ill afford. He returned to Ireland after a few months, when his mother was diagnosed with cancer.[5]
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