

## the world according to grep



YAHOO!


## 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

## searching for words

## the birth of grep

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


## a natural order?

"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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to push more development and understanding into the academic realm."

## appendix a

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.



## Cetlilar Prone Gampany



## Free Call Phones SPans



## Showing natults for cellur phone－Stanch insted for seulularphons

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## 

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## BayCel Phons

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neve Wieply． 04 en

## TracForellocelolalsit

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## Cheap Cel Phones

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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 : <br> 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

Searching for information 9

## presentism to determinism

"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 ..."
-- Frederick Kilgour, Evolution of the Book, 1998
"books ... tree
flakes encased

## closed to open

in dead cow"
Bill Mitchell

## information shucking

"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"<br>-Stewart Brand

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## contrasting narratives?

"information wants to be free"
-Stewart Brand

or<br>"information wants to be expensive"

## contrasting narratives?

"information wants to be free"
-Stewart Brand

or<br>"information wants to be expensive"

or

## contrasting narratives?

$" i n f o r m a t i o n ~ w a n t s ~ t o ~ b e ~ f r e e " ~$
-Stewart Brand

or<br>"information wants to be expensive" or<br>information wants to be constrained?



## old and new stories

Sippar c 600 BC

## searching for immortality

\author{

## Nineveh

 <br> "the first <br> systematically <br> collected library <br> in the ancient <br> Near East"}
"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

## 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]

## words in clay?

He came a far road, was weary, found peace, and set all his labours on tablets of stone constraints/ supports
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institutional
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--Gilgamesh,3000 bce
[trans Andrew George]

## liberation technology

## to a man with a hammer ...

"seek to substitute an algorithm
... for intuitive judgement"
--Daniel Bell,"Social framework of the
Information Society," 1979

## hammering



## Russia thrusts into South with Georgia reported

5 hours ago

JAVA, Georgia (AFP) - Russian taniks and troops Ossetia province on Friday to repel a Georgian offu said to have left hundreds dead.
"Fierce clashes" between Russian and Georgian tr Ossetia's capital Tskhinvali were reported by Russ

## i

## hammering

Elb Now 引erk Elucs
Sepeember is, dobi


## United's Tough Morning

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

[^0]
## hammering



## info-determinism




## 'DNA bungle' haunts German police

Palice is Germany have ajmitapd that a wbonast they have beed lueting bor mare than is years may seveer have exinted.

Dublet the "anavom of Herlorory", ITe worman was dubbod br police as the conuby's wort congervis mornan

Invintipators had cornected har to sta eurotes and at unolved desn nelee en DNA tracet found at the scene.
 unbd ta cplect IONA sarmplen may have been concaminated ty an invocert wheman . poakisy during mahufacture.


Thin 2007 murder mas believed to be the work of the phantom kilies

## Serial bleer

 and the "phaveven of Ref Drown" atter the oty in southere Gernasy where the ahtoedry kiled a ponkwotran

Folice tuasectec the urnamed weman of peing a serisi wiler sho gever is vean comed that is sing tif bin murbern, itdubing strangling a perwibner.
 Notien motos southem Germaty ind Aublria


## in search of information

the Christian codex
Christians as information foragers?
"The need for readily available
"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
information, ...accelerated by Christianity."

## trivializing the scroll

external arrangements:
Zenodatus \& Callimachus internal arrangement: incipits, explicits, sylliboi, pages

## 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?

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## 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 print book: a triumph of the west?

## 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.' --Carter, The Invention of Printing in China, 1955.

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It was the type mold that the Koreans developed." --Carter, The Invention of Printing in China, 1955.

## i the print book: a triumph of the west?



## the need for search

## diffusion: looking for patterns

Christian codex, 2d century
Islamic codex, 8th century
Hebrew codex, 9th century
Chinese sutra fold, IOth 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?

|  | Paper | Codex | Printing | Typography |
| ---: | :---: | :---: | :---: | :---: |
| China | 3d cent bc | 10th cent * | 8th cent | 11th cent |
| Korea | 4th cent ad | 19th cent | 8th cent | 15th cent |
| Japan | 7th cent ad | 19th cent | 9th cent | 17th cent |
| India | 5th cent ad | 6th cent* | 19th cent | 19th cent |
| Islam | 8th cent ad | 8th cent | 19th cent | 19th cent |
| Europe | 12th cent ad | 2d cent | 15th cent | 15th cent |

## linear or cyclical?

## going open

## Mrs Wales?

# hofe of Batb's Tale 

"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



## going open

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 $\stackrel{20}{2}$ MORE

## A G A I N S T <br> THE

TAKEN FROM THEIR VIOLATION
Or CHURCHES.
Where tyands she ciofr ner fibtilly D ifpued If Theif two Quffient.








 Tuite mlas bry tuad.
a dialogue between readers and experts
"informing" and "correcting"

## going open

## English revolution

freedom of the press
unlicensed printing


ONE 20
_ARGUMENT MORE

## A G A I N S T

 CAVALIERS;```
takEN from their violation
    or churches.
```

Where tyands she ciofr ner fibtilly Difpued If Theif two Quffient.







a dialogue between readers and experts
"informing" and "correcting"

## going open

## English revolution

freedom of the press
unlicensed printing


## going closed

# licensing 

copyright
stamp tax

## going open

## new scientists

"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

## (i) <br> Numb. $\mathbf{1}$. PHILOSOPHICAL TRANSACTIONS.

Munday, Aarcb 6. $166 \frac{\%}{\%}$.

The Contents.
An Introduction to this Trait. An Accompt of the Improvement of Optick Glaffes at Rome. Of the Ob/ervation made in England, of a spot in ane of the Beltes of the Planet Jupiter. Of the motion of the late Comet pradified. The Heads of many Nerv Obfervations and Experimentr, in order to an Experimental Hiftory of Cold; togetber with /ome Thermometrical Di/cour/es and Experiments. A Relation of a very odd Monffrosst Calf. Of a pectliar LeadOre in Germany, very $u$ feful for Eßays. Of an Hungarian Bolus, of the /ame effeit nith tbe Bolus Armenus. Of the Nen American Whale.ffoung abous: tbe Bermudas, A Narative concerning the fuctefs of the Pendulum-watches at Sea for the Longitudes; and the Grant of a Patent thereupon. A Catilogue of the Philo/ophical Bookepoblifhe by Monfieur de Fermat, Cownjelloar at Tholonfe latelv dead.30

## PHILOSOPHICAL TRANSACTIONS.



## The CONTENTS.

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## going closed?

(1) Numb. r.

## PHILOSOPHICAL TRANSACTIONS.

Munday, March 6. 166\%.

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Numb. 364 .
Beginniog the Thirty I iff Volume.

# PHILOSOPHICAL TRANSACTIONS. 



## The CONTENTS.

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VII. Aa Aorrant of ith Motiod of maling Sagar fre rhe Join of the Maple Tres, is New Lagland By
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 Sims.
 nica, five Delcripeis Liscarum Curvarum Univerfalis. diflart Celiso Mac Lasia, Aatiofine ia Caiighle Now Alrolisenf Profyfing of 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 Pt. cercar, It. cercare to seek, Sp., Pg. cercar to surroand:-late L. circilre to go round, f. L. circus circle.]

1. To explore, examine thoroughly.
2. 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

## search, $v$.


[a. OF. cerchier (mod.F. chercher), corresp. to Pt. cercar, It. cercare to seek, Sp., Pg. cercar to surround:-late L. circatre to go round, f. L circus circle.]
L. To explore, examine thoroughly.

## encyclopædia, encyclopedia

Pronanciatian Soellings Erymalegy Qeatations Date chart

1. The circle of learning; a general course of instruction.

1531 Etxor Gou, 1. xiil, The circle of doctrine..is in one worde of greke Encyclopedia, 1646 Sir T. Bronass Pseud. Ep. a3a, To Rdr., In this Encyclopaedie and round of knowledge. 1654 Wumocs Zootomia 187 Borrowed from the Bank of the Encyclopaedia, or generall Learning, $\mathbf{1 6 6 2}$ PHupla Dict. Advt., A Dictionary for the English Tongue, would require an Encyclopedy of knowledge. $\mathbf{1 6 8 1}$

## circling libraries

Smirke, British
Masem Reading
Room, 1851


Labrouste, Bibliothique
Nationeale 1868


Pela/Cascy Reading Room, LOC, ca 1898


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"


\section*{law reports}

\section*{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

\section*{recircling}

\section*{authority needed}
"new evils [that] created confusion and
uncertainty in the law."
law amendment: closing in again the official reports

\section*{what are we searching for?}
. . . authority?
Christianity monastic copying, Carolingian minuscule
\begin{tabular}{|c|c|c|c|c|c|}
\hline & Paper & Codex & Printing & Typography & Islam \\
\hline China & 3d cent bc & 10th cent * & 8th cent & 11th cent & "the golden chain" \\
\hline Korea & 4th cent ad & 19th cent & 8th cent & 15th cent & \multirow[t]{3}{*}{Byzantium the university} \\
\hline Japan & 7th cent ad & 19th cent & 9th cent & 17th cent & \\
\hline India & 5th cent ad & 6 th cent* & 19th cent & 19th cent & \\
\hline Islam & 8th cent ad & 8th cent & 19th cent & 19th cent & \multirow[b]{2}{*}{National Academy} \\
\hline Europe & 12th cent ad & 2d cent & 15th cent & 15th cent & \\
\hline \multicolumn{6}{|r|}{general government control copyright; stationers ...} \\
\hline
\end{tabular}

\section*{river without banks paedia without encyclo}


Welcome to Wikipedia, the the0 encyriopeda that aypone can edit
3.211 .216 ancies in Esglat

WIKIPEDIA
Thefre Eworionade
nengaton
* Man page
- Centerts
* Fearlued eovien
- GuNomerevis

Overview + Edting - Duestions - Hote

\section*{Today's featured article}


The Sholes and Glidden typewiter was the frat oomnocially sucoesslal sypewter, Pircioaly designed Dy Chilitopher \(L\) Sholes, z was deveboped wth the assictance of Samuel W. Soule end Carbe Si Gidden. The mactine was acquited by E. Aemington and

\section*{units of analysis}
"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


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Curnet fobls
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Specal pages

Fipen Wiricesla, the free encyeropedia.
Nevion as of 0t 44, 11 Oclober 2005. vife curbit swenet - Oider nuvisan I hereser nevison +

Daniol Defloe (1060-Aori 24, 1731) was an Inglah wither and journalet whe fral ganed fare for he fevel fobindort Cridede.
Doloe is alos notable for being ayguably the parleat ponatant practioner of the rever form.


Biography


Bern Daviel Feet the son of Janes Foe, a Duscher in Sroke
Newington, Lsedon. He leter addod The armberatic sounding "De" to his narne ab a norn de plume. Hia gravastone
 of the novol e the Englal Itrouage, tind thus laity raves as one of its pesgentions.

 manager of a Londoe tie factory.

\section*{UCB Library Catalog (1 of 687)}

Jump to: \(1 \underline{21} \underline{41} \underline{61} \underline{81} \underline{101} \ldots \underline{681}\)

\section*{SAVE AVAILABILITY}


XIkipediA
Ber Frer Esconolywior
Negaton
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Mecent changen
fasoun whot
Intip
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08
Jeenth
phes
What livia heat
Natus manges
Upiead Ne
Specal papes
Probithe venees

Title The life and adventures of Robinson Crusoe / written by himself

\section*{Author Defoe, Daniel, 1661?-1731. \\ Daniel Defoe \\ making a case}

From Wripedia the tee encychpeda

*. Oider nivisen i hereer mivicon 4
Daniel Defloe (1060 - Apoi 24, 1T31) was an Englah werter and journalot, whe lris ganed faved for he revel fobision Crusoe. Doftee is alve notable for being ayguaby the pariest ponstart prostiloner of the revel form


\section*{Biography}


Denel Defor

Bown Duviel Feet the son ol Janes Foe a pascher in Srove
Nowington, London. Ha leter added the arnibcratce sounding "Da" to has nare at a nom do plune. Ha gravastione
 of the rovol ethe Englok lerguage, and thus laity raves at one of tis pesperilora.

 marager of a London lie factory.

\section*{UCB Library Catalog (1 of 687)}

Jump to: \(1 \underline{21} \underline{41} \underline{61} \underline{81} \underline{101} \ldots \underline{681}\)

\section*{SAVE AVAILABILITY}

Title The life and adventures of Robinson Crusoe / written by himself
Author Defoe, Daniel, \(1661 ?-1731\).


WikipediA
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(cur) (last) \(\bigcirc\) he accepted a name, varied from his birthname.)

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"I strongly suspect

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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

\section*{dubious evidence}

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

\section*{entropy in action}
"He is most famous for his novel [ \(R C\) ]"- 9/02
"He became a famous pamphleteer, journalist and novelist"--1/04
"He became famous for [RC]"--10/04
"He first became famous for [ \(R C\) ]"--11/04

\section*{defoe revisited}

\section*{Daniel Defoe}

From Wispedia, the free encyclopeda
Daniel Detoe fe. 1659-166s - 24 Apell 1731 \({ }^{13}\), bom Daniel Foe, was an Engleh wriber, journalst, and pamprieteet, who gained enduing fame for his novel Robinson Crusce. Deloe is notable for being one of the earliest practioners of the fovel, as he helped to popularise the form in Brtain, and is even reberred to by some as one of the founders of the Englsh novel.[2] A proilic and versatie writer, he wrote more than five hundred books, pemphiess, and journals on various topics (ircluding polfics. crime, religion, marriage, psychology and the supernatural). He was also a pioneer of econgmic journalism.
\begin{tabular}{|c|c|c|}
\hline \multicolumn{3}{|c|}{Daniel Defoe} \\
\hline & Devisicate & \\
\hline Born & C. 1850 - 1881 & \\
\hline Died & 24 Apall 1731 & \\
\hline Oceupation & Wriect, pumalist, spy & \\
\hline Genres & Adventuve & \\
\hline Infunnced & & INay| \\
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\section*{defoe revisited}

\section*{Daniel Defoe}

\section*{From Wispedia, the free encyclopeda}

Daniel Detoe fe. 1659-1665 - 24 Apell \(1731^{13} \%\), born Daniel Foe, was an English writer, journalst, and pamprieteet, who gained enduing fame for his novel Robinson Crusce. Deloe is notable for being one of the earliest practioners of the fovel, as he helped to popularise the form in Brtain, and is even reberred to Dy some as one of the founders of the English novel. \({ }^{[2]}\) A proilic and versatie writer, he wrote more than five hundred books, pemphiess, and journals on various topics (ircluding polfics. crime, religion, marriage, prychology and the supernatural). He was also a
\begin{tabular}{|c|c|}
\hline & Daniel Defoe \\
\hline & Dever Cowe \\
\hline Born & c. sese - 1881 \\
\hline Died & 24 Apsil 1731 \\
\hline Oceupation & Wriect, pumalit, spy \\
\hline Genres & Adventure \\
\hline infumped & INeor \\
\hline
\end{tabular}
pioneer of eoongmic 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.

\section*{assuming structure}

\section*{the constraint-resource problem}
"artificial impediments" --Dan Clancy
books for "those addicted to tree flakes encased in dead cow" --Bill Mitchell, MediaLab
Who Imaoss Videos Mass News Shosping Gmal mone *
CoOgle books \(\square\)

Morret populer beaks

Mat P =ll phor Movgle Adotut is owaie and nandge aewona:
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Itreresting


\section*{assuming structure}

A manual of trade-mark cases: Comprising Sebastian's Digest of trade-mark ... By Rowland Cox, Lewis Boyd Sebastian, Great Britain. Couts

\section*{TABLE OF CASES.}

\section*{The nambers refer to the nambers of the cases.}
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\({ }^{\text {Apollinaris Co. (Lisited) }}\) No 465

\section*{i}

\section*{assuming structure}

\section*{ESDIEX.}
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*HOLBROOK'S SCHOOL APPARATUS," 2*S

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    ITED), THE " 2 IS
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- HOOKIAM AND POTTAGE," zas.
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    marks \(\operatorname{en}\), 205, 103
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                            "MeCorbel Ilosen," 232.
            "Woolv, Hotel," 4t2
            "Suation Ilowel" 523
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                                    "Revere Howe," HI.
                                    "Prestent Illowe" ith
            14 andgnally, 382
            beluegs no lensot of betel, 212, uti.
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    same of, "Osterse Hoass," 223
                        "Boudrs Thestre," 3ac.
                            "Ansford Lellgs, 63 L .
* HOUSEHOLD WORDE" 132

" 10 WE: BAKKRY," 18 s .
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\section*{assuming structure}

\section*{ixdiex.}
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- HOOKEAM AND POTTAGE," as.

HOOPS OX BARRELS
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"HOP SUPPLEMENT, EsTCOUETB, \({ }^{*}\) 48.

\section*{HORSE BLISTERS,}
marks *n, 205, 208,
HHOSTETTER'S CELEBEATED STOMACHL BITTERS," MOS, 632, 642, 732.

\section*{HOTEL}
saes of " Frwieg Iliswe," 164.
"What Cheer Hoese," ILI.
"MeCardel 1house" " 233.
*W Worl's Ifotely" 4 IR
"Stution IVotely 22 s
sme of, en earriagen, " Irvisg Hoone, \({ }^{[8}\) 1月4.
"Revere IIoner," 11 L
"Prestol! Illones," ifle
lis andgnalle, 48 F .
belings no lessot of hetel, 212 , 42
250EsE,
same of, "Osberse Itoars," 221,
" Boulls Thestre," Bec
"Ansford Lalge" 615.
* HOUSEEIOLD WOHDS" 122

" 10 OES DAKEDY," ISA.
"HOWQUA"S MIXTURE" TEA, is
HUSGALLAS NOTES,

Searching for information 46

\section*{assuming structure}

The origin of species by means of natural selection:




The origin of species by means of natural selection:
\begin{tabular}{|c|c|c|c|}
\hline . & \multirow[t]{3}{*}{\[
\begin{aligned}
& \frac{\text { Overview }}{\text { R Read }} \\
& \text { Reviews (129) } \\
& \text { Buy }
\end{aligned}
\]} & \(\Theta^{\text {¢ }}\) & 目 \\
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\hline
\end{tabular}


\section*{what's in a book?}

\section*{About this book \\ Read this book \\ The Warden By Anthony Trollope}

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

\section*{Richard II.}

\section*{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

\section*{King Lear}

\section*{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 ...

\section*{closed to open}

\section*{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


\section*{gracenote}

\section*{cataloguing 52 million tracks}
song -- artist -- album -- genre

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

\section*{gracenote}

\section*{cataloguing 52 million tracks}
song -- artist -- album -- genre

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

Don Giovanni \(\triangle\) Don Giovanni \(\square\) Don Giovanni

1i - Par Ch'oggi Il Demonio Si Diverta Ion Ti Fidar, O Misera on Ottavio, Son Morta ! or Sai Chi L'onore alla Sua Pace o Deggio Ad Ogni Patto 5:51 1.01 Introduzione: Notte E Giorno Faticar (Leporello, Donna Anna, Don Giovanni, Il Commendatore)

\section*{(5) 6:30 1.04 Recitativo Accompagnato: Ma Qual Mai S'offre, O Dei (Donna Anna, Don Ottavio)}
(5) Mozart - Don Giovanni (Disc 1 Album -1"
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\hline\(\Theta\) & \(1:\) \\
\(\theta\) & \(4:\) \\
\(\Theta\) & 3 \\
\(\Theta\) & 3 \\
\(\Theta\) & 4 \\
\hline- & 1
\end{tabular}

1:13 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 4:16 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 3:10 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 3:08 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 4:09 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 1:29 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme
- Don Giovanni (2/3)
- Don Giovanni \((2 / 3)\)
- Don Giovanni \((2 / 3)\)
- Don Giovanni \((2 / 3)\)
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\section*{cataloguing 52 million tracks}

\section*{song -- artist -- album -- genre}

If you see an error in the data for a favorite \(C D\), 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


Name \(\triangle\) Don Giovanni \(\triangle\) Don Giovanni he
© Mozart - Don Giovanni (Disc 1 - Mozart - Don Giovanni (Disc 1
() Mozart - Don Giovanni (Disc 1

Ai - Par Ch'oggi ll Demonio Si Diverta Ion Ti Fidar, O Misera on Ottavio, Son Morta ! or Sai Chi L'onore palla Sua Pace lame

1:13 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 4:16 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme3:10 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme 4:09 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme Album
Di Molte Faci ll Lume (Leporello)

Molte Faci Il Lume (Leporello)

Ah, Pieti slgnori Miei (Leporello)
- Don Giovanni (2/3)
© Don Giovanni (2/3)
© Don Giovanni \((2 / 3)\)
© Don Giovanni \((2 / 3)\)
© Don Giovanni \((2 / 3)\)
\begin{tabular}{|c|c|c|c|c|c|}
\hline Allegro Con Brio & \(\oplus\) & 9:05 & Ludwig van Beethoven (1770-1827) & \(\oplus\) & Alexander String Quar \\
\hline Adagio Affettuoso Ed Appassionato & \(\odot\) & 9:20 & Ludwig van Beethoven (1770-1827) & \(\bigcirc\) & Alexander String Qua \\
\hline Scherzo. Allegro Molto & \(\Theta\) & 3:29 & Ludwig van Beethoven (1770-1827) & \(\stackrel{+}{+}\) & Alexander String Quar \\
\hline Allegro & \(\theta\) & 6:58 & Ludwig van Beethoven (1770-1827) & \(\bigcirc\) & Alexander String Quar \\
\hline Allegro & \(\oplus\) & 6:31 & Ludwig van Beethoven (1770-1827) & \(\oplus\) & Alexander String Quar \\
\hline Menuetto & \(\odot\) & 5:06 & Ludwig van Beethoven (1770-1827) & \(\bigcirc\) & Alexander String Qua \\
\hline Andante Cantabile. Thema - Variationen I-V. Coda (Poco Adagio) & \(\Theta\) & 10:03 & Ludwig van Beethoven (1770-1827) & \(\oplus\) & Alexander String Qu \\
\hline Allegro & \(\Theta\) & 6:37 & Ludwig van Beethoven (1770-1827) & \(\dagger\) & Alexander String Qua \\
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\end{tabular}
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


- Mozart - Don Giovanni (Disc 1 \(\checkmark\) Don Giovanni 5:51 1.01 Introduzione: Notte E Giorno Faticar (Leporello, Donna Anna, Don Giovanni, Il Commendatore)
© M ne

1:13 Krips, Siepi, Della Casa, Danco, Gueden, Corena, Dermota, Berry, Bohme
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- Don Giovanni \((2 / 3)\)
- Don Giovanni \((2 / 3)\)
- Don Giovanni \((2 / 3)\)
- Don Giovanni \((2 / 3)\) Album hand and working with artists and labels

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Pan:
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Pan:
Translated from
Translated from
the Norwegian of
the Norwegian of
Knut Hamsun
Knut Hamsun
by W. W. Worster
by W. W. Worster
Introduction by
Introduction by
Edwin Bjørkman
Edwin Bjørkman
New York
New York
Alfred A. Knopf, }192
Alfred A. Knopf, }192
Published July, 1921
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Published July, 1921
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\section*{gutenberg}

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.


\section*{pan}
```

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 ...'

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\section*{pan}
[T]he first
version by \(W\). W .
Worster (Knopf,
1921), was
bowdlerized, all
the expressly
erotic elements,
however
innocuous, having
been deleted.

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 ..."

\title{
\(4=\) Your Rights Oninn: Googlo To Remove "Inappropriato" Books From Digital LIbrary
}

Posted by timothor on Tuesday April 23, © 12:43PM from the limited-resources dept.

Miracle Jones writes
"In an interview with Prolessor (and former Microset employee) James Grimmolmann at the New York Law School, who is both setting up an online clearinghouse to discuss the Google book settlement and drafing an amicus brief to inform the court about the antriast factors surrounding "orphan books," he revealed that Google will be able to moderate the content of its book scans in the same way that they moderate their YouTube videos, leaving out works that Google deems "inappropriate" from the 7 million lbrary books it has scanned. The Fiction Circus has called for a

\section*{material matters}

\section*{Project Gutenberg :}

> The Life and Opinions of Tristram Shandy, Gentleman.

A work by Laurence Sterne
```

(two lines in Greek)

```

\section*{typographic culture}

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 ...

\section*{typographic culture}
in coition all at once with Scorpio \({ }^{1}\) (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 matterand 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 stecped in guilt) sailed before the wind, into the lake of hell
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 ...

\section*{typographic culture}
26.4

\section*{TRISTRAM SHANDY}
in coition all at once with Scorpio \({ }^{1}\) (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 \(\qquad\) 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 stecped in guilt) sailed before the wind, into the lake of hell
1. Haec mira, satisque horrenda. Planetarum coitio sub Scorplo Asterismo in nonat cocli statione, quam Arabes religioni deputalant, eGcit Martinum Latherum sacrilegum hereticum, christianae itligionis bostem acerrimum atque prophanum, ex horoscopi directione ad Martis coitum, religiosissimus obils, cjus Anima scelestissima ad infernos navigavit-ab Alecto, Tisiphone et Megara flagellis Ignels cruciata perenniter.
-Lacas Gauricus in Tractatu astrologico de practeritis multorum hominum accidentibus per genituras examinatis.

\section*{missing evidence}

\section*{lost pages}

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

\section*{\(i\)}

\section*{missing evidence}
[ 70 ]
introption ferving lowh for His eqiaph and tiong-
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Ala, gove YORICKI

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Aln, Mor Yo是1CKI


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\section*{easily fixed?}



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3

5.



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]

\title{
related cases
}

\section*{open source}
wikipedia

\section*{google books}

\title{
related cases
}
open source
wikipedia
google books

局HATHI TRUST a shared digital repository

\section*{related cases}
open source
wikipedia
google books


HATHI TRUST
a shared digital repository
so, what are we searching for?```


[^0]:    Scurce: Aloonteng

