Mindtools: What it means to be literate now...

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Über Tech Lead, Search Quality & User Happiness
Jan 12, 2013 ● Google, Mountain View, CA



My job...

I am a cyber-tribal-techno-cognitive-anthropologist.

My job...

I am a cyber-tribal-techno-cognitive-anthropologist.

I think about how groups of people think about, understand, and use the technology of mindtools.

My job...

I am also a software engineer & research scientist.

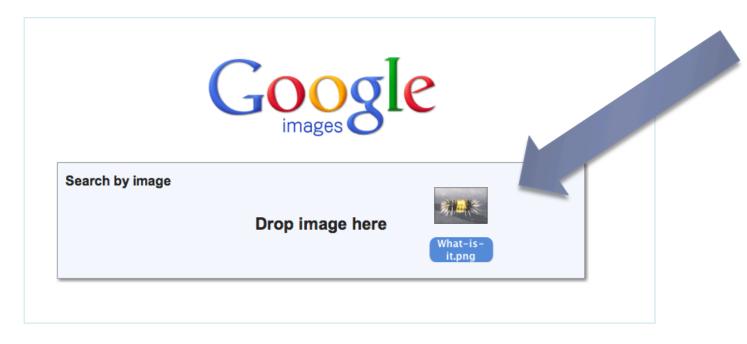
What kind of a caterpillar is this?



Mindtool #1: Search-by-Image

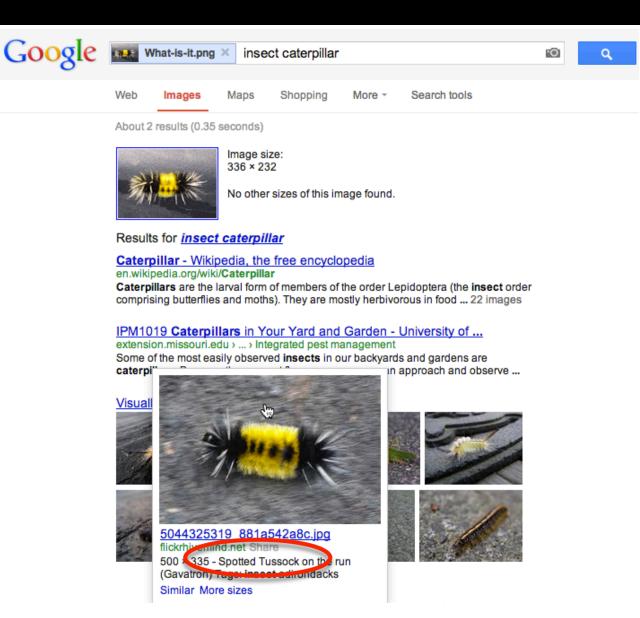
Drag the image into Image Search





Mod the tool

2. Add a couple of keywords...



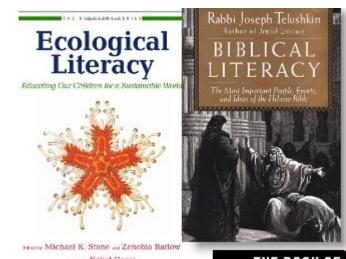
A quest to understand what "literacy" means...

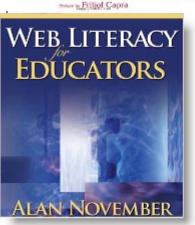
Dictionary def: "able to read and write"

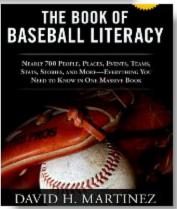
I think that's woefully out-of-date.

Literacies

- By looking at usage patterns in searches:
 - Ocean
 - Kitchen
 - Legal
 - Information
 - Financial
 - Computer
 - Health
 - Statistical
 - Media
 - Social
 - Emotional
 - Scientific
 - ...etc...

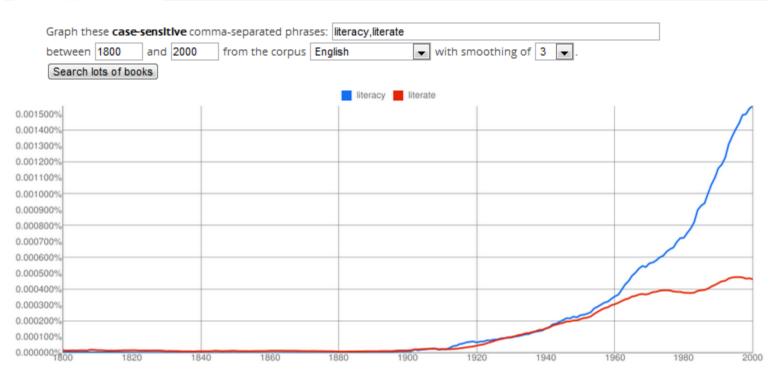






And... a relatively recent concern...





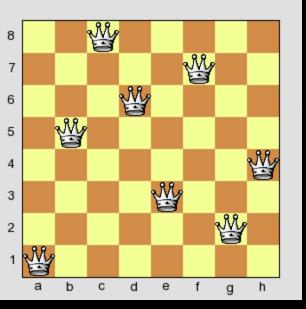
Which of these can you read & write?

لا أتكلم العربية

我不会汉语

\b[A-Z0-9._%+-]+@[A-Z0-9.-]+\.[A-Z]{2,4}\ b

life \leftarrow { \uparrow 1 ω \lor . \land 3 4=+/, $^{-}$ 1 0 1 $^{\circ}$ 9 $^{-}$ 1 0 1 $^{\circ}$. \bigcirc \bigcirc ω }



```
BOARD SIZE = 8
8
                  ₩
                             class BailOut (Exception):
7
                                 pass
            ₩
6
5
                             def validate(queens):
                                 left = right = col = queens[-1]
4
               ₩
                                 for r in reversed(queens[:-1]):
3
                                      left, right = left-1, right+1
2
                                      if r in (left, col, right):
                                          raise BailOut
                e f
      b
         С
             d
                             def add queen (queens):
                                 for i in range (BOARD SIZE):
                                      test queens = queens + [i]
                                     try:
                                          validate(test queens)
                                          if len(test queens) == BOARD SIZE:
                                              return test queens
                                          else:
                                              return add queen(test queens)
                                      except BailOut:
                                          pass
                                 raise BailOut
                             queens = add_queen([])
                             print queens
                             print "\n".join(". "*q + "Q " + ". "*(BOARD_SIZE-q-1) for q in queens)
```

Mindtool #2: "how to use" indexed knowledge



PLACE STAMP HERE





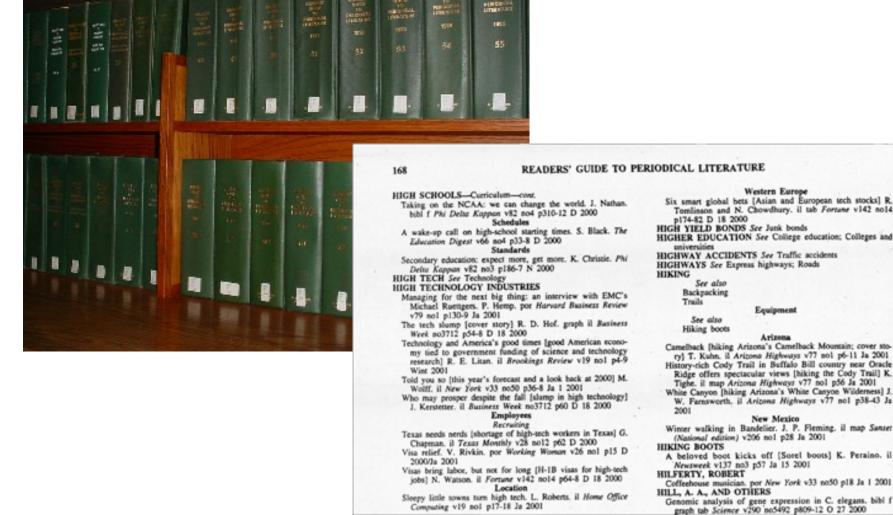
SEND YOUR QUERY TO: GOOGLE INC., 1686 AMPHITHEATRE PARKWAY, MOUNTAIN VIEW, CA \$4642, UNITED STATES

PLEASE ALLOW 30 DAYS FOR SEARCH RESULTS



The world IS different

Reader's Guide to Periodical Literature



Western Europe

Equipment

Arizona

ryl T. Kuhn. il Arizona Highways v77 not p6-11 Ja 2001

Ridge offers spectacular views [hiking the Cody Trail] K.

W. Farnsworth. il Arizona Highways v77 no1 p38-43 Ja

Tighe, il map Arizona Highways v77 nol p56 Ja 2001

New Mexico

graph tab Science v290 no5492 p809-12 O 27 2000

(National edition) v206 no1 p28 Ja 2001

Newsweek v137 no3 p57 Ja 15 2001

p174-82 D 18 2000

Backpacking

See also

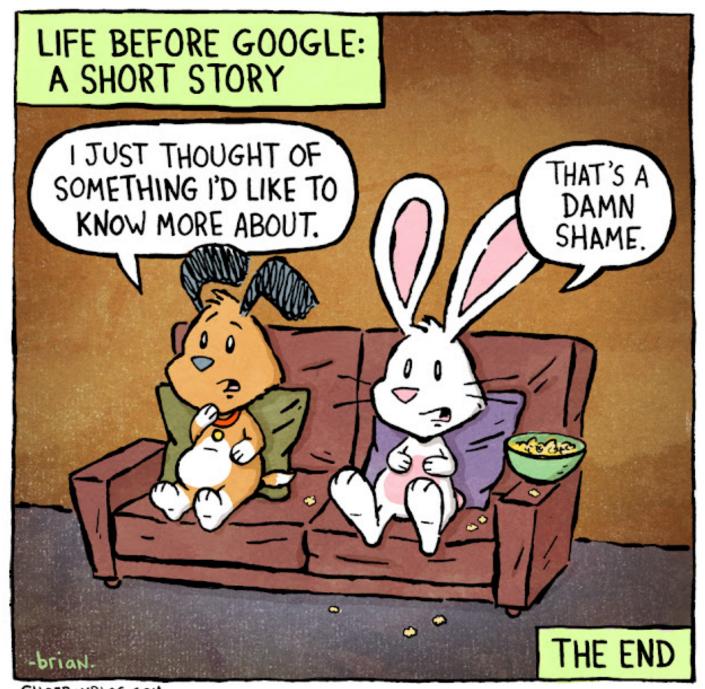
Hiking boots

pniversities

Trails

Tomlinson and N. Chowdhury, il tab Fortune v142 no14

Google	high technology industries				
Search	About 216,000,000 results (0.78 seconds)				
Everything Images Maps	High tech - Wikipedia, the free encyclopedia en.wikipedia.org/wiki/High_tech Jump to High-tech industries: Medium-High-Technology It can be concluded, that companies in a high-technology industry do not necessary → Origin of the term - Economy - High-tech society - See also				
Videos News Shopping More	[PDF] High-Technology Industries and Market Structure - School of people.ischool.berkeley.edu/~hal/Papers/structure.pdf File Format: PDF/Adobe Acrobat - Quick View by HR Varian - 2001 - Cited by 63 - Related articles Sep 4, 2001 - tant in high-technology industries, such as personalization of products and pricing, versioning, bundling, switching costs, lock-in, economics				
Palo Alto, CA Change location	[PDF] Report] High-Technology Industries www.thinkkentucky.com/kyedc/kpdf/high-technology_industries.pdf File Format: PDF/Adobe Acrobat High-Technology Industries Report. Introduction and Methodology. The Kentucky industry reports provide a list of facilities (with 10 or more employees) normally				
Show search tools	[PDF] R&D Activity and Acquisitions in High Technology Industries www.ftc.gov/be/workpapers/rdactive.pdf File Format: PDF/Adobe Acrobat - Quick View by BA Blonigen - Cited by 3 - Related articles R&D Activity and Acquisitions in High Technology Industries: Evidence from the. U.S. Electronic and Electrical Equipment Industries. Bruce A. Blonigen				



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Informacy

- ▶ The literacy of information... informacy
 - By analogy with "numeracy"
- Knowing what the information is...
- How to use and interact with the information

▶ For example: What is an index? How do you use it?

	DIV PL						PACE
PLACE	/TOTAL	NAME			TOWN	TIME	/MILE
							/
1	1/27	WILLIAM MATEKER			STANFORD	24:34	4:57
2	1/41	J.T. SERVICE			SAN FRANCISCO	25:17	5:06
3	2/41	KEVIN PIERPOINT			CAMPBELL	25:21	- 90
4	2/27	OEYVIND SUNDBY			STANFORD	26:00	_
5	3/27	DALE TAYLOR			MOUNTAIN VIEW	26:14	
6	3/41	NICK MACFALLS			SAN FRANCISCO	26:52	
7	1/20	JOSH NEWBY			PALO ALTO	27:33	
8	4/41	MATT TOMPKINS			MOUNTAIN VIEW	27:36	
9	1/62	RACHEL BOOTH			MOUNTAIN VIEW	27:47	200
10	5/41	STEFANO PROFUMO			SANTA CRUZ	28:02	
11	1/39	CHANTELLE WILDER			LOS GATOS	28:06	_
12	2/20	MICHAEL UNDERWOOD			PALO ALTO	28:23	_
13	4/27	DAVID TOBIN			STANFORD	28:34	
14	1/75	SEAN SELEY			LOS ALTOS HILLS	28:44	
15	2/75	DAVID DEGUSTA			HAYWARD	28:56	
16	-	SUZANNE SEGESTRA			REDWOOD CITY	29:05	
17	3/75	ANDREW CREWS			SUNNYVALE	29:10	-
18	2/39	LINDSEY MACLISE			SAN FRANCISCO	29:21	
19	3/39	ASHLEY CARROLL			MENLO PARK	29:25	
20	4/75	DAVID GOMNZALES			BOULDER CREEK	29:26	
21	5/75	ADAM PRINCE			SANTA CLARA	29:32	-
22	6/41	ANTONIO ALUNNI			MOUNTAIN VIEW	29:41	
23	6/75	MARC OSTROWSKI			SAN JOSE	29:42	
24	5/27	BENJAMIN KALLMAN			STANFORD	29:53	
25	4/39	CAROLINE MULLEN			STANFORD	29:55	9
26	3/62	DINA ROSENTHAL			SAN JOSE	29:56	_
27	7/75	CHARLES ALEXANDER			MOUNTAIN VIEW	29:59	4
28	8/75	AHMET GORCEK			PALO ALTO	29:59	
29	1/71	VERITY BREEN		_	BURLINGAME	30:08	9
30	4/62	SARA GIGLIOTTI			SAN FRANCISCO	30:19	7
31	6/27	ABRAHIM EL GAMAL			PALO ALTO	30:27	
32	9/75	DERRICK PETERMAN			BELMONT	30:29	
33	7/27	FRANCISCO CONTRERAS			MENLO PARK	30:33	
34	1/37	CLAY BULLWINKEL			PORTOLA VALLEY	30:34	
35	5/62	MARISA BECK			SAN JOSE	30:38	
36	7/41	JONATHAN LEE			SUNNYVALE	30:40	- 1
37	10/75	JEFF WATT CLAIRE SHAW			PALO ALTO	30:43	
38	5/39				STANFORD	30:57	
39	3/20	ERIC KOFMAN			STANFORD	31:02	
40	11/75	KEN CAMET			SAN JOSE	31:11	
41	12/75	PATRICK JENNY			PALO ALTO	31:21	
42	13/75	GARY MEEKER			SAN JOSE	31:22	
43	1/10	ALEC OLSLUND			MOUNTAIN VIEW	31:35	
44	2/71	SHANNON CODY	41		REDWOOD CITY	31:38	- 1
45	0/05	UNOFFICIAL		М		31:43	
46	8/27	FRANK CHEN			STANFORD	31:53	٦.
47	4/20	IAN BALL			STANFORD	31:55	
48	1/16	ARTURO RODRIGUEZ			PALO ALTO	31:57	-
49	14/75	FREDERIC GARDERES			PALO ALTO	32:00	-
50	9/27	BENJAMIN FLAMM			PALO ALTO	32:07	
51	15/75	GEORGE REHMET			DALY CITY	32:10	6:29
53.	10/27	PERIC BU			LOS ALTOS	32:15	The state of the s
	FT			~	10-00	~ ·	

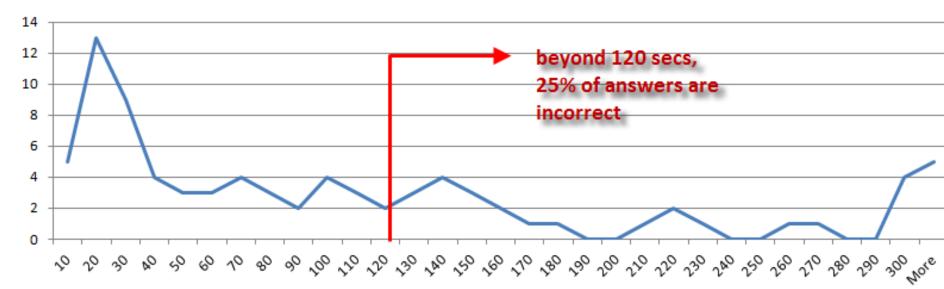
Mindtool #3: Find text

- Fundamental online reading skill
 - Control-F / CMD-F / Edit>Find>
 - Lets you find a piece of text in an online document very quickly
- Find how long Beth Assuange took to run this race.

DIV PL

Study #1

Frequency (10-second buckets) n = 85



Study #2: How many people know Control-F?

- Survey of 2,225 US-English internet users:
 - ▶ 90.5% do **NOT** know how to "find" on a page

- Survey of 545 US-English internet using teachers:
 - ▶ 51.1% do **NOT** know how to "find" on a page

- Analysis of over 50K Firefox users (worldwide):
 - ▶ 93% have **NEVER** used the "find" command on a page

A Googler wonders...

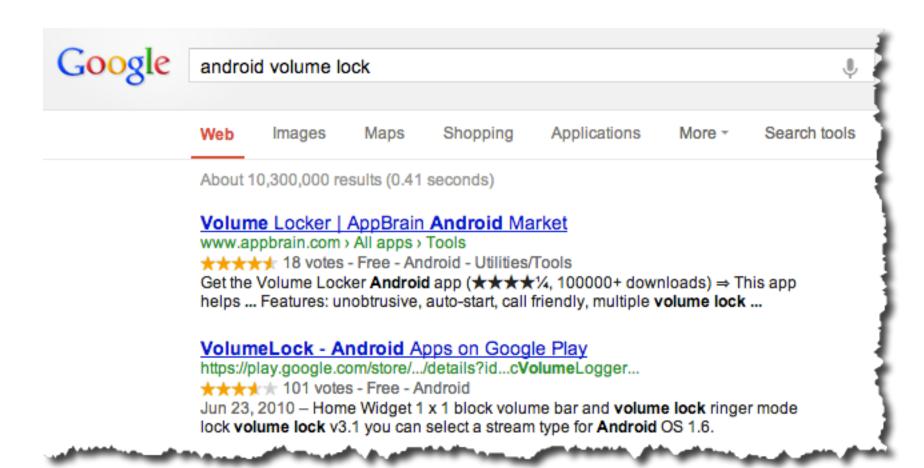
C: What can I do to stop my phone's volume from constantly changing?

B: I wish I could do that too!

Dan: Did you think about searching for an app for that?

A: How?

Search for app...



Dan's request...

Dan: Wish I could do Control-F for more than one thing at a time....

C: Try doing a search for [Chrome regexp search]

"regexp" = "regular expression" —
a language for specifying patterns to match in text files

Turns out, there is a regexp "Find" extension

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Spotlight



Welcome to a special edition of This Week in Tech, as we take a look back at the International Consumer Electronics Show. As with every year, a few trends always seem to emerge.

DHS Warns That Java Flaw Leaves Computers Vulnerable to Hackers

ABC News (blog) - 28 minutes ago

The Department of Homeland Security has advised computer users to temporarily disable Java software after concerns of hacking attacks were raised by computer security experts.



Samsung nixes plans for Windows RT tablets in US, citing 'modest' demand

Apple Insider - 3 hours ago

Samsung no longer plans to launch a tablet in the U.S. running Microsoft's Windows RT platform due to a number of factors, including consumer confusion and slow sales.



Cheap smartphones global market grows

BBC News - Jan 11, 2013

Asha, the budget smartphone line from Nokia, is outselling its premium handset offering, the Windows-run Lumia, by over two to one.



Facebook Charging \$100 to Message Mark Zuckerbera

Mashable Jan 10, 2013



Written by Chris Taylor

We knew Facebook was eager for new revenue streams. We just didn't know they were this eager. If you try to send founder and CEO Mark Zuckerberg a message on Facebook, Mashable discovered Thursday, the social network may offer to keep the ...



Detroit auto show to highlight cool design, high tech

NBCNews.com (blog) - 3 hours ago

Detroit isn't your typical winter destination - but you could find it difficult to get a flight into the Motor City or line up a hotel room anywhere near downtown in the coming days.



Apple Exec Dismisses Notion of a 'Cheaper' iPhone

PC Magazine

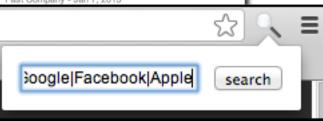


Written by Damon Poeter

Despite a flurry of rumors, Apple won't be making a cheaper iPhone any time soon, according to senior vice president of worldwide marketing Phil Schiller.

Plus-One This: Proof That Google Plus Will Prevail

Fast Company - Jan 7, 2013



Fortune - Jan 9, 2013

CES 2013: Threes Ups, Three Downs

Discovery News - Jan 11, 2013

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See realtime coverage

French Airstrikes Counter Northern Mali Islamist Insurgency

Bloomberg - 28 minutes ago (+ >>) | []

Modern ~



French airstrikes sought to halt an offensive by Islamist rebels in northern Mali as west African paties pledged to send about 2,000 soldiers to oust the militants fully

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Opinion: AP Interview: UN mief says France, Senegal, Nigeria offer help to

Mali to defeat ... Washington Post Wikipedia: Northern Mali conflict

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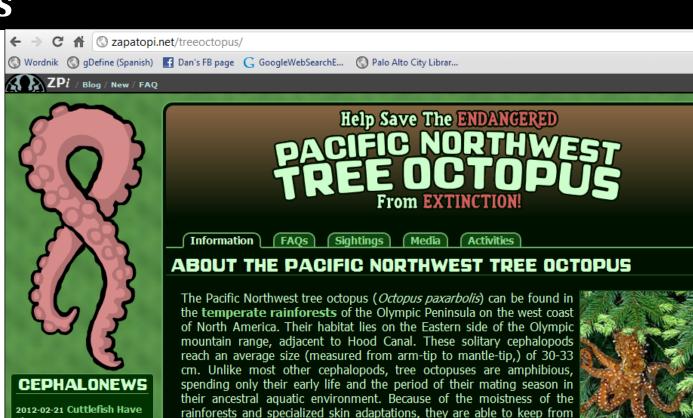
Mindtool #4:

Knowing cultural conventions: Genre/Media

- Home page
- Bookmarks page
- Product page
- Product reviews site
- Online textbook
- Web directory
- Open source project
- Draggable maps
- Online survey
- Online news
- FAQ
- DIY guide

- Photo gallery
- CFP
- API docs
- P2P listings
- 3D object viewer
- MMORPG
- Internet memes
- Readme.txt
- Lolcatz
- Pinboard site
- Video
- Spoof site
- Etc etc etc...

Spoof sites



2012-02-21 Cuttlefish Have The Most Acute Polarisation Vision (The Fish Site)

Cuttlefish and their colourblind cousins, squid and octopus, see polarized light invisible to humans, giving them a covert communication channel. A study found that cuttlefish were much more sensitive to polarization than previously thought. Study: High-resolution polarisation vision in a cuttlefish (Current Biology)

An intelligent and inquisitive being (it has the largest brain-to-body ratio for any mollusk), the tree octopus explores its arboreal world by both touch and sight. Adaptations its ancestors originally evolved in the three

groundwork in primates for the evolution of the human mind.)

becoming desiccated for prolonged periods of time, but given the chance

they would prefer resting in pooled water.

touch and sight. Adaptations its ancestors originally evolved in the three dimensional environment of the sea have been put to good use in the spatially complex maze of the coniferous Olympic rainforests. The challenges and richness of this environment (and the intimate way in which it interacts with it,) may account for the tree octopus's advanced behavioral development. (Some evolutionary theorists suppose that "arboreal adaptation" is what laid the

Rare photo of the elusive tree

Reaching out with one of her eight arms, each covered in sensitive suckers, a tree octopus might area a branch to right herself along in a form commence called tentaculation; or she might be

Knowing the conventions of the culture

Knowing the language

```
▶ Emoticons : :-) :P :-(
```

- Acronyms: ROTFL, LOL, BRB, TTYL, POS, OOO
- ▶ Terms / concepts: index, key, metadata, filters, sort, ranking...

Why you need to understand emoticons



Is it true that Rosa Parks would have moved to the back of the bus but she was listening to her iPod?

My sister is helping me with a class presentation but she likes to joke she says it is true. She also said Lincoln gave the slaves bus passes, but they thought it was a trick so just kept sneaking on the back like they do today?

1 year ago

Report Abuse

Report Abuse



Natasha

Best Answer - Chosen by Asker
..... yeah it's true :P

1 year ago

d 2 people rated this as good

Asker's Rating: *****

Thank you, I'll put that in my report. I trust you you have the nicest avatar

► It's not just that there's a lot, it's also that there are great compendiums of topic information. ► It's not just that there's a lot, it's also that there are great compendiums of topic information.

▶ Think of it this way: 1 Library of Congress is added each day... everyday... and the rate of acquisition is accelerating

It's now 1 LOC/day/week

Every minute

80 + hours of video are uploaded

3 billion

videos watched every day

70%

of traffic is international



And.... The rest of the world...





×

>>



Search

About 8,920 results (0.52 seconds)

Translated foreign pages

Safe Search off ▼

Everything

Images

Translated results for tsuji ayano - My language: English v

Maps Language Translated query

Japanese ▼ 辻あやの - Edit

Videos

Add language ▼

Shopping

News

More

Ayano Tsuji official Website

www.tsujiayano.com/ Translated from: Japanese

Official site of Tsuji Ayano. News, Chaku-Uta (R) and Pub.

Show original text

Any time

Past month

Custom range...

Past year

Past hour
Past 24 hours
Past week
Past week
Ayano Tsuji - Wikipedia
ja.wikipedia.org/wiki/つじあやの
Translated from: Japanese

Ayano Tsuji (January 06, 1978 -) is a Japanese-born singer-songwriter, Sakyo-ku, Kyoto, ukulele musicians. Real name: 乃 Aya Tsuji (as read). Ryukoku University Faculty of Letters Department of History...

Show original text

Ayano Tsuji official Website www.tsujiayano.com/



Tools evolve



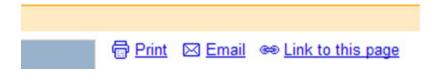


Tools evolve



5 years... many changes







Results 1 - 10 of about 44,60 Categories: Restaurant Pizza, Res









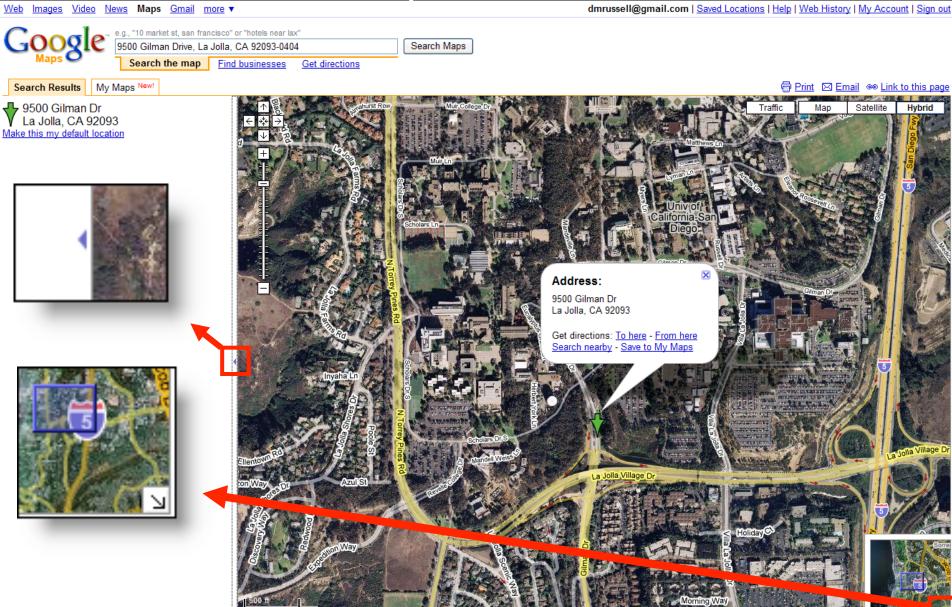


Meta-literacy

- Knowing how to be literate about being literate....
 - Literate = able to read, write, answer questions, and function in domain
- That is, "being literate about being literate"

- Knowing what the UI is; that is, how to READ the UI
- Knowing how to use the UI effectively
- Knowing what's possible to ask / search / possible

Meta-literate: How do you read a tool?





lahaina, hi



Dan Russell











Ads - Why these ads?



Lahaina Hotels as low as \$98. Book Online or Call Today & Save. lahaina.hotelsbycity.com/



Book your Hotel in Lahaina HI www.booking.com/Lahaina-Hotels



Directions Search nearby Save to map more -

Explore this area »

Photos





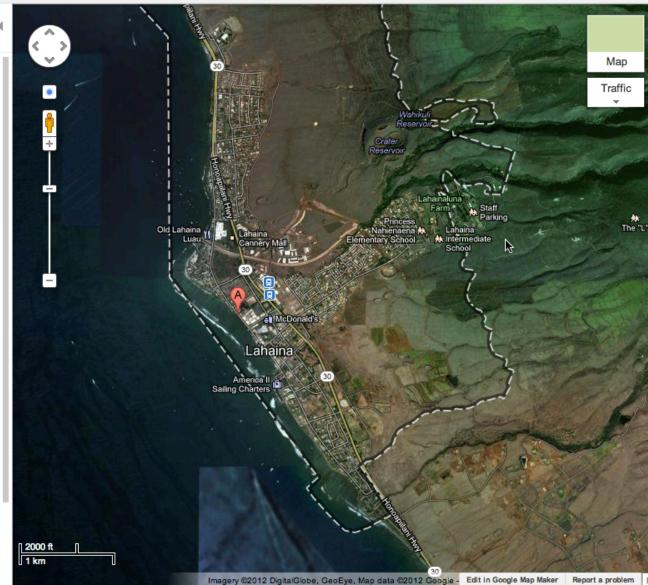


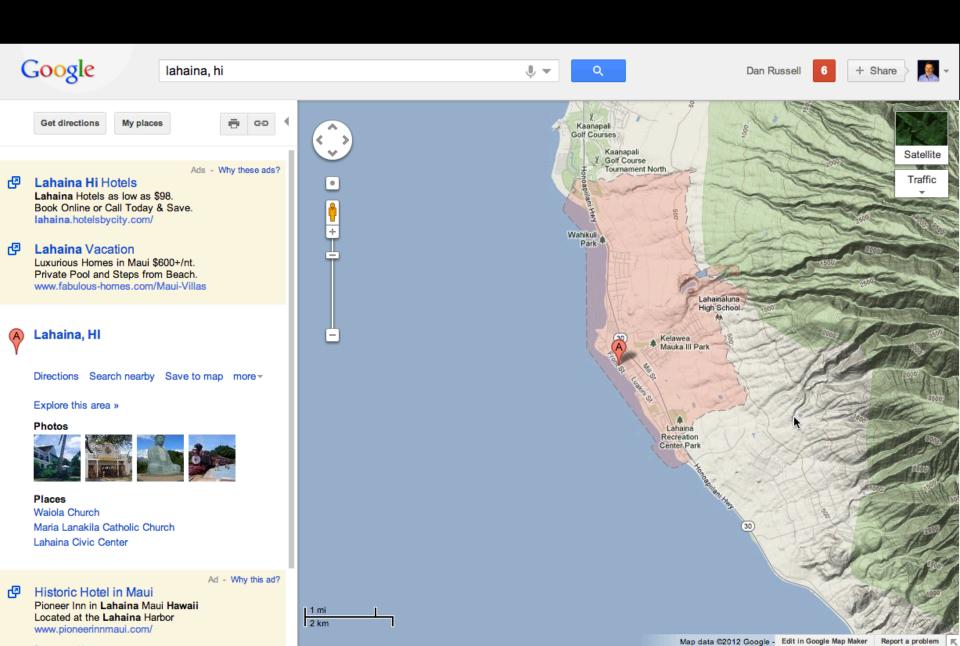
Places

Maria Lanakila Catholic Church Waiola Church Lahaina Civic Center

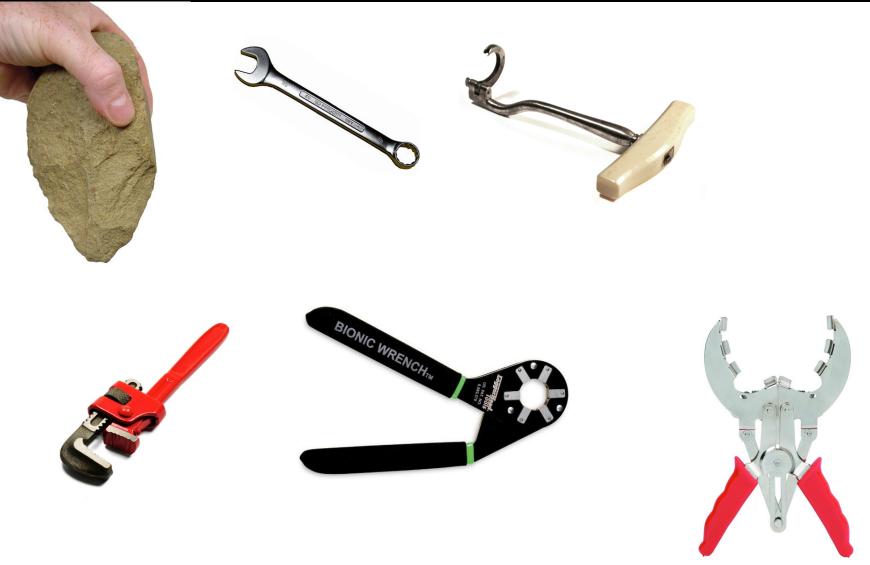
Ad - Why this ad?

Maui's Fabulous Homes \$1000/night Private Villas. Weekly rentals. Beach houses with pool/AC www.fabulous-homes.com/





Tools are evolving... rapidly



What's possible to ask about the world?

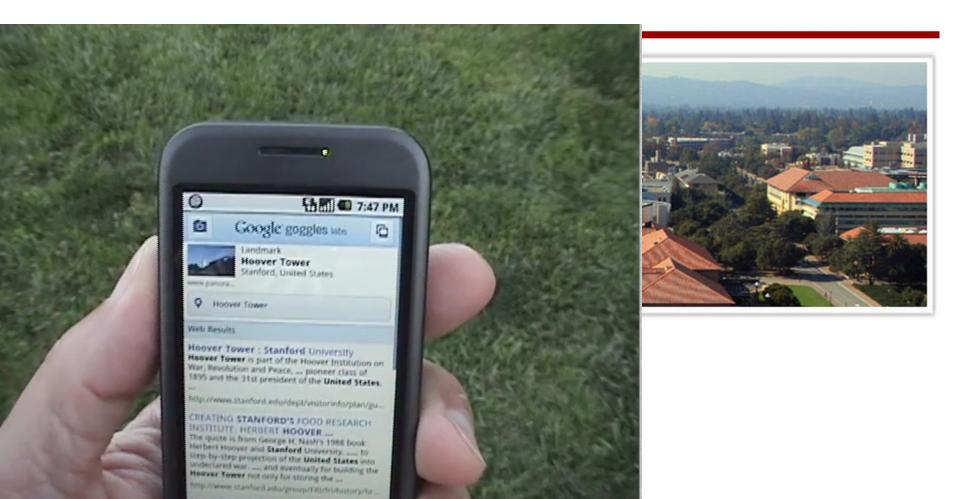
Just as you had to know what was possible in the card catalog, now you need to know what's possible in the Google world...

- What can you query?
- What is possible now?
- What will be possible next week?



Google Goggles

Visual queries about the real world



The evolution of asking questions

▶ A story about what you can ask...

The crowd chants wildly along with a piece of music. Unfortunately, there are no words. How do you find the music? 10:5

How do you search for something like this?

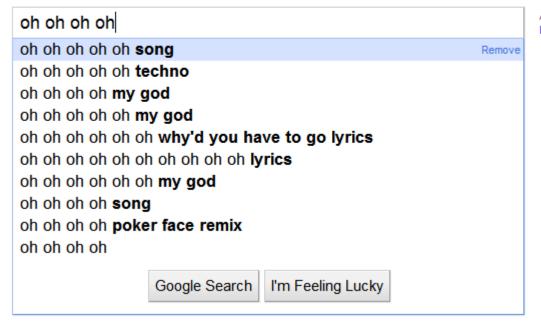


Advanced Search Language Tools

Google Search I'm Feeling Lucky

How do you search for something like this?





Advanced Search Language Tools

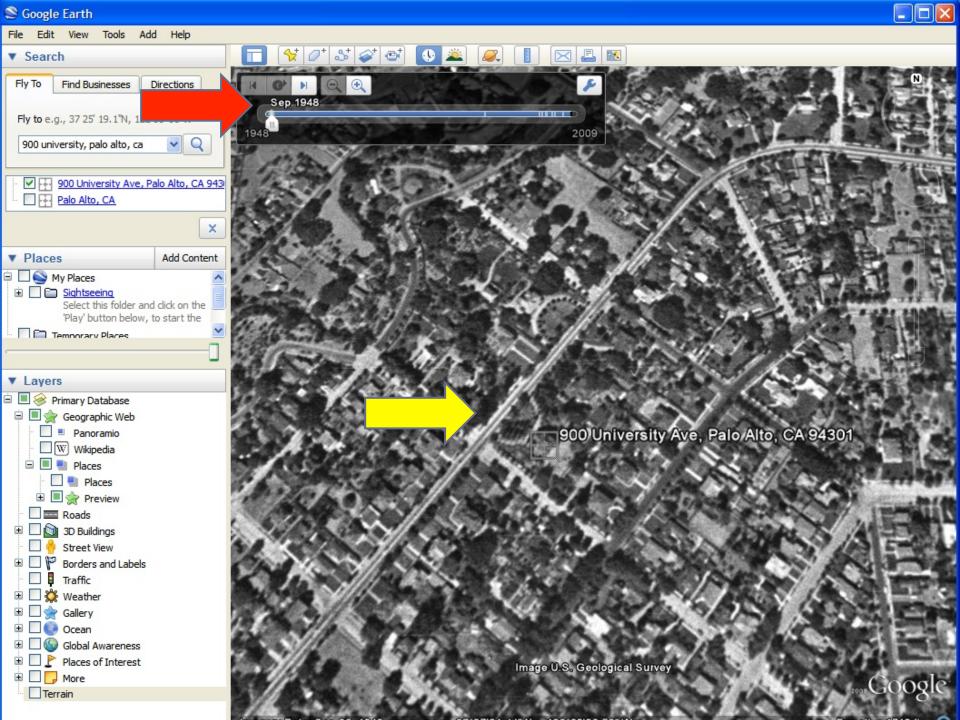
Find an aerial image of the Squire House before 1977

- ▶ N = 250
- Success = 0
- ▶ Time called at 7 minutes (420 seconds)



And the solution you should have known...





Meta-literacy

... is the skill of knowing how to be literate about your own information literacy...

What's possible: Beyond genres....media kinds

- Web pages
- News streams
- News archives
- Patents
- Images
- Videos
- 3D-models
- Code
- Blogs
- Financial
- Public data

- Reviews
- Product data
- Maps
- Groups
- Magazines
- Scholarly papers
- Calendars
- RSS feeds
- Books
- Local info (geocoded events)



"Every man should have a built-in crap detector."

Ernest Hemingway

From: Hemingway in Cuba, Atlantic, August, 1965

FAKE

Change is constant / has been constant / will continue to be constant

- Searchers search for new kinds of things...
 - There are new kinds of things to search for
 - (real-time updates; social content; etc.)
- ▶ Tools & systems change to offer new capabilities

And all of this is searchable in ways you might not have imagined...

...because of mind tools!

Mindtool #6: Use tools in unorthodox ways





Now, which office are you in?



Search [google offices warsaw] to find that the information is at: http://www.google.com/about/company/address.html

Google Warsaw

Warsaw Financial Center

Emilii Plater 53

00-113 Warszawa

Poland

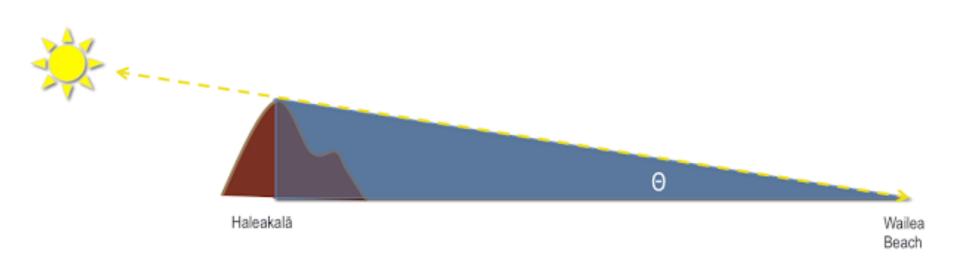
Phone: +48 22 207 19 00

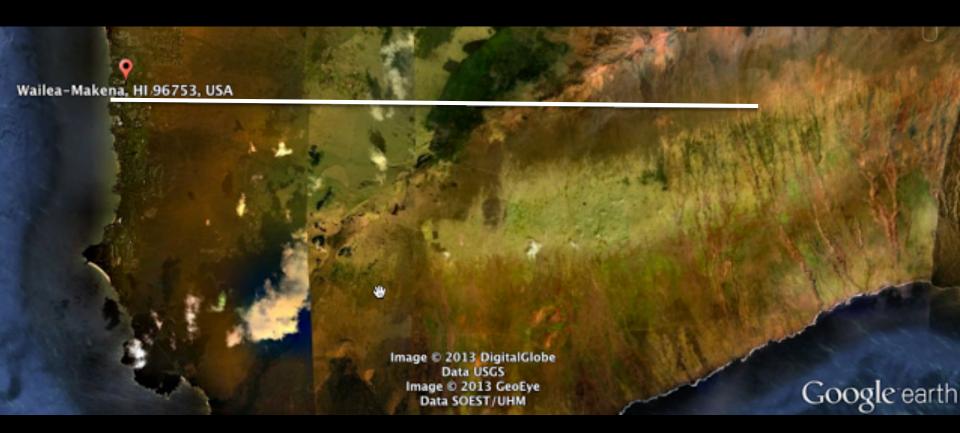
Fax: +48 22 207 19 21

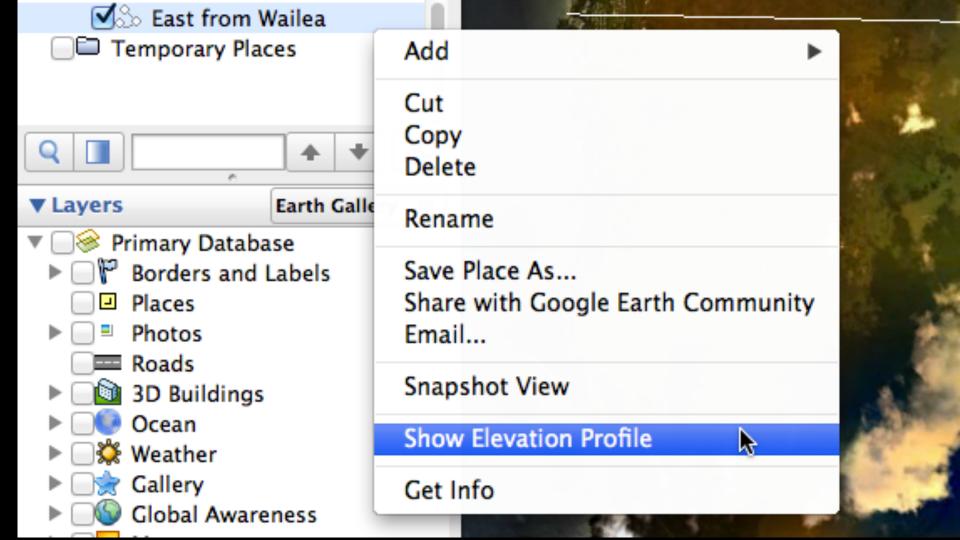
Mindtool #7: Search for tools







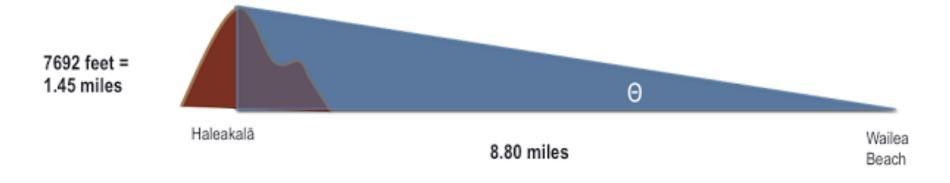






8.78 mi

10 mi



```
opposite / adjacent = tan (Θ)

1.45 / 8.80 = tan (Θ)

1.45 / 8.80 = 0.1651

[ arctan (0.1651) ]

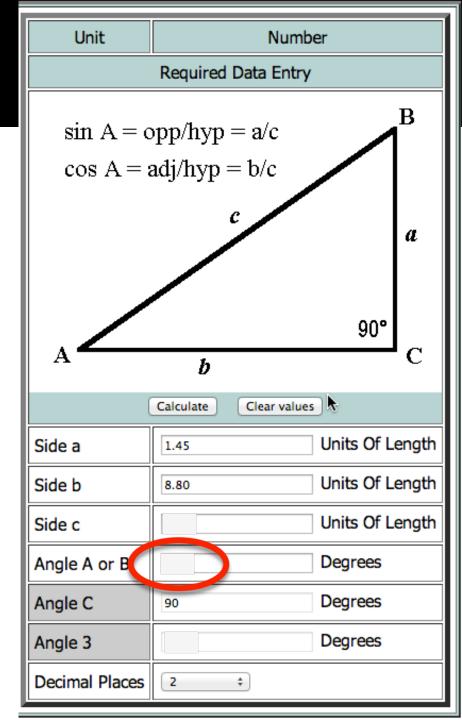
[ 0.16362 radians in degrees ]

9.3749 / 0.27 = 34.7 minutes .... Or 7:39AM
```



BUT....

[right triangle angle calculator]



Mindtool #8: Become informate



Power Searching with Google

Another live session of Power Searching with Google begins on September 24!

Register now to complete the course alongside a community of global participants and when the course begins you'll receive:

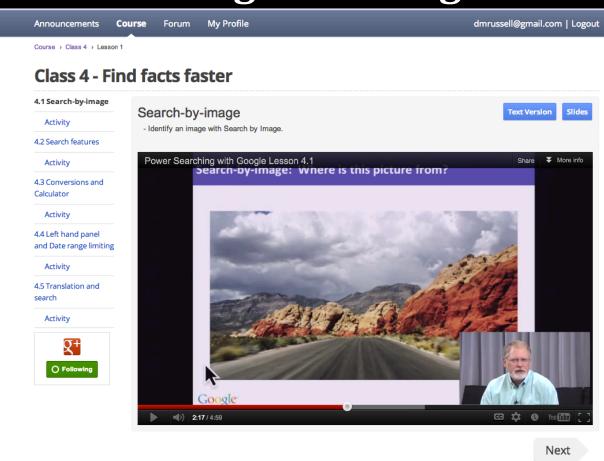
- · Access to community discussion forum
- The opportunity to put your new skills to test with mid and post class assessments
- Support from Google course staff
- An official Power Searching with Google certificate upon completion



Register

Our MOOC: Power Searching with Google

- Deliver high quality educational experience to a very large number of students
- Short amount of learning time (6 hours)
- Semi-synchronous



Learning communities

Hangout On Air:

- live narrowcast to class; recorded for outof-time-zone students
- Google Moderator
 used to collect and
 vote on questions from
 students
 (15K votes on 647
 questions)



For these MOOCs...

- 257K registrations
- 190K (74%) attended first lesson
- 33% FCCR (First-course-to-completion ratio)
- 44K students completed course
- 4.5 Net Promoter Score (out of 5)
- 98% of survey respondents recommend this (n=40.6K)
- 40% mean improvement in performance scores

CourseBuilder



free and open collection of college level courses



Course

dmrussell@gmail.com | Logout

ME102: Mechanics I

Mechanics I is about things: how things move, how things react to forces, and how they sometimes fall apart. We will need to learn to use all the right terms (for example, "statics," "solids," "forces," "moments," "vectors," and "torque"), but ultimately, this course is about objects in the real world and how they behave, move, twist, and turn when subjected to different influences, like wind, or the weight of your hand, or the twisting motion of a wrench. The end goal in this course is to begin to think like an engineer. Put differently, we're going to begin to learn how and why things break so that we can build them better.



The Saylor Foundation Saylor.org

Course Outline

Course Introduction

Unit 1: Introduction to Statics

Unit 2: Material Mechanics and Analysis of Solid Objects

Creating a CourseBuilder MOOC

System builder

- Open source familiarity
- Experience creating course material either for a traditional live classroom or online class
- ▶ HTML
- JavaScript familiarity (particularly JavaScript arrays, simple objects, and regular expressions. Of these, regular expressions tend to be the biggest stumbling block.)
- Google App Engine (Python in the cloud) familiarity is a plus but it's not necessary.
 - Can get sample course to run in 1-4 hours
 - ▶ First complete class in ~5 days (not including content development)

Details

See: https://code.google.com/p/course-builder/

Cost: ~300 students, free;

AppEngine cost \$20/day for 150K students

Mindtool #7:

PowerSearchingWithGoogle.com (1/23/13)



Home

Advanced Power Searching

Power Searching

Course

Advanced Power Searching

Advanced Power Searching with Google begins on January 23, 2013!

Register now to sharpen your research skills and strengthen your use of advanced Google search techniques to answer complex questions. Throughout this course you'll also:

- Take your search strategies to a new level with sophisticated, independent search challenges.
- Join a community of Advanced Searchers working together to solve search challenges.
- Pose questions to Google search experts live in Hangouts and through a course forum.
- Receive an Advanced Power Searching certificate upon completion.

Not sure if you're ready for Advanced Power Searching? Brush up on your search skills by visiting the Power Searching with Google course.

Register Now



Desiderata

- You NEED to understand internet information content how it's organized and what is possible
- You NEED to emphasize these skills in our students and in ourselves...

You NEED to become a meta-literate person... and plan to continually develop these skills going forward WE are in the business of making information into something people truly, and deeply understand. WE are in the business of making information into something people truly, and deeply understand.

WE need to become informate / meta-literate users of information.

WE are in the business of making information into something people truly, and deeply understand.

WE need to become informate / meta-literate users of information.

WE need to build the best next generation tools that make information use simple, easy, fast and precise. Who has time for slow/low-quality content? "Tomorrow's illiterate will not be those who cannot read and write, but rather those who cannot learn, unlearn, and relearn."

Alvin Toffler, Future Shock (1970), remixed slightly...

WE need to teach our students what's possible, what's best, and how.

250K this quarter1M this year2M next year

end