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> http://www.anu.edu.au/people/Roger.Clarke/... .../II/GoogleHK-0611 {.html, .ppt}

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What's Google Really Up To? **Agenda**

- **Google's Context**
 - The Web
 - Search-Engines
- Google's Business(es)
 - **Content-Discovery** Services
 - Content Services
 - Data about Users

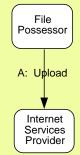
- **Perspectives on Google**
 - **Business Model**
 - Copyright Law
 - Consumer Law and Practice
 - Privacy Law and Practice



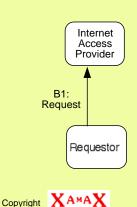


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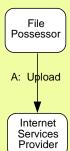
The Web Process



The Web Process

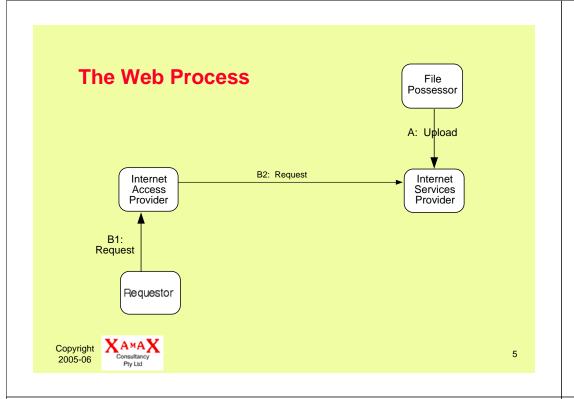


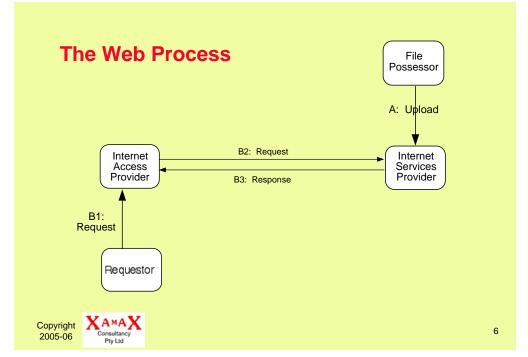
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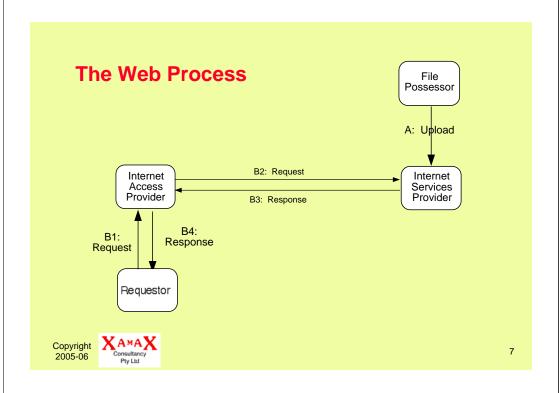


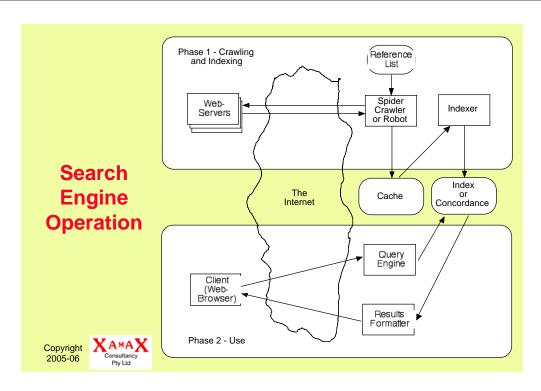
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Google's Business(es) 1. Content Discovery Services

- The Largest Coverage (size of the Reference List)
- The Smartest Precedence Algorithm (the sorting part of the Results Formatter)
- The Fastest, Simplest, Best? Search-Service (a UI for normal people, not specialists)
- Multiple Constrained Searches (images, blogs, Froogle)

Multiple Extension [

froo-gle (fru'gal) n. Smart shopping through Google 9

Google's Business(es) 2. Content Services

Google Earth

Google News

Google Base

- Google Library / Print
- Google Video / YouTube

















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Is Google a Publisher?

- Q. How will Google control for irrelevant items like pornography or SPAM material?
- A. Items that don't meet Google policies may be taken down based on our own checks or in response to user complaints
- Members of **YouTube** rate videos they like, and YouTube reviews highly-rated and recent videos for consideration in 'Today's Featured Videos'.

In addition, YouTube takes recommendations from members at editor@youtube.com and

Yout Jube scans the site for videos of interest

Google's Business(es) 3. Data about Users

"We are moving to a Google that knows more about you" Google's CEO

Round 1

- Search-Terms
- IP-address(es)
- Click-Trail
- Click-Throughs





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Round 1

- Search-Terms
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- Click-Trail
- Click-Throughs

Round 2

- Google Accounts
- Personalizing Services
- Email-Address as Username
- A Common Cookie

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ELECTRONIC PRIVACY INFORMATION CENTER

Gmail Privacy Page

FAQs | Resources

Frequently Asked Questions

1. What is Gmail and and what privacy risks does it raise?

1.2 What is your position on Google's Gmail?

1.3 What privacy risks are presented by Gmail?

1.4 When did this issue arise, and what has happened since then?

1.5 What other things has Google been doing that might affect my privacy?

2. Technical details about Gmail

2.1 How does Google's "content extraction" work?

2.2 What is "internal" and "external" e-mail information used in the analysis?

2.3 Will Gmail build profiles of subscribers and/or non-subscribers?

2.5 It's a computer, not a person reading your e-mail. What's the big deal?

2.6 What patents has Google filed for Gmail?

3.1 What are the Federal wiretapping laws, and does Gmail implicate them?

3.2 What is California's wiretapping law, and why does Gmail implicate it? 3.3 Is there a "service provider exception" under California wiretapping law?

3.4 What legal objections have been raised in other countries?

4. What can you do?

4.1 Don't sign up for Gmail

4.2 Don't send e-mails to @gmail.com addresses

4.3 Reduce the possibility of tracking you through your cookies

4.4 What are YOU guys doing about it?

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v. 1 - October 2004

Search Within Your Own Computer

Google to search the web

"A desktop search application that provides full text search over your email, files, music, photos, chats, Gmail, web pages that you've viewed, ..." (cf. Apple's Sherlock 1998, later Spotlight, and many third-party products for Wintel) It allows people to scan their computers for information in the same way that they use

v. 3 - 9 Feb 2006

Search Across Your Computers

BUT

a new kind of

webmail, built on

the idea that you

should never have

to delete mail and

you should always

be able to find the

message you want

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"In order to share your indexed files between your computers, we securely transmit this content to Google Desktop servers located at Google"

cf. MS Passport data, centralised at Redmond WA



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Google's Business(es) 3. Data about Users

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Round 3

- **GMail**
- Desktop
- Desktop v.3
- Orkut

Round 4

Google as Wireless IAP Gratis (i.e. ad-funded) **Today Mountain View** Shortly San Francisco Tomorrow the World?





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Google as Wireless Internet Access Provider

October 04, 05

Google to unwire San Francisco?

IF GOOGLE GETS INTO ACCESS, CAN IT TAKE ON THE OPERATORS? By Stephen Lawson and Stacy Cowley, IDG News Service

Google's expansion into public Wi-Fi could be a boon to the embattled municipal broadband movement and presents intriguing new possibilities for the search giant, though putting the traditional carriers out of business isn't likely to be one of them.

Acceptance of Google's tender confirmed 5 April 2006





http://www.techworld.com/mobility/... features/index.cfm?featureid=1837

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What's Google Really Up To? **Some Perspectives**

- **Business Model**
- Copyright Law
- Consumer Law and Practice
- **Privacy Law and Practice**

Business Model Who pays, what for, to whom, and why?

- Nil Revenue from Consumers (so far)
- Old Model:

The Advertiser Pays for Ads Displayed

New Model:

The Advertiser Does Not Pay for Ads Displayed The Advertiser Does Pay for 'Click-Throughs' And the Advertiser Pays for AdWords More Advertisers Pay More, More Often Market-share is being won from other Channels





AdWords

http://adwords.google.com http://www.tomw.net.au/technology/it/adwords.shtml

- Advertisers bid and pay for keywords (metadata)
- These are used to target the placement of ads on the pages that Google delivers to searchers

AdSense

http://adsense.google.com http://www.tomw.net.au/technology/it/adsense.shtml

- Page-Owners let Google place Ads on their Pages
- The Page-Owner gets some of Google's revenue





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Sources of Google's Revenue Growth

- Scale of Google's Operations
 - more Google searchers
 - more Google pages published to them
 - more ads per page
- **Acquisition of New Operations**
 - popular web-sites, new facilities
- 'Syndication' to Other People's **Operations**
 - other people's pages
 - costs a small share to the other people





Google's Revenue Generation (\$5bn in the 12 mths to June 2006) **Key Features**

- Positive Feedback / Network Economics i.e. Transactions breed Minable Data
- Cross-Leveraging among Elements of the Google Product Range ('Platform')
- Use of the Treasure-Chest for Wildcat Acquisitions, in search of 'network effect'
- Ad Pricing is based on Auctions whose processes are attuned to Google's interests

Google's Challenges to Competition Law?

Search-Engine Market Dominance? Big Enough to Challenge Microsoft?





Google's Challenges to Trademark Law

Hire of 'Adwords' enables advertisers to gain priority display-space when particular search-terms are nominated by users

Trademarked terms are hired out as Adwords

▼ Go

on clean air

Some cases have already found against the practice, and clarification is awaited

>Top Stories

Business

Sci/Tech

Entertainment

Most Popular

Mews Alerts

New! Mobile

Sports

Health

Top Stories U.S.

US pushes for UN action

The UN Security Council will

convene this week to begin discussions on a new

resolution on Iran's nuclear

President RIA Novosti

World Peace Herald Irish Examiner - CBS News

all 2,224 related »

program, with the possibility of

Regina Leader-Post - TMCnet

imposing future sanctions if President

Mahmoud Ahmadinejad's administration does not comply with the demand to stop ...

Iran to continue uranium enrichment for fuel -

Iran defiant on nukes as deadline passes

Jerusalem Post - 2 hours ago



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Search New

Standard News | Text Version

Auto-generated 7 minutes ago

Personalize this page

North County Times - all 126 related :

Bush administration invokes "state

The Sunday Times - all 450 related »

Guardian Unlimited - all 284 related »

More farms infected with bird flu

secrets" in suit against NSA

Google's Challenges to Copyright Law

Normal Search-Engine Operations

'Web operations ==>> implied licence' For web-spider extraction, indexing, caching?

But for widespread access to Google Cache

Is Google's respect for exclusion clauses in robots.txt files sufficient defence?

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Google's Challenges to Copyright Law **Features of Google News**

- News report consolidation service
- Offers links to news reports
- Customisation and Alert extensions
- Displays headline, source and hotlink, some text, and in some cases thumbnails, reproduced from Google's Cache
- Agence France Press (AFP) have sued
- AFP has gained support from the Paris-based World Association of Newspapers (WAN-Press)







Google's Challenges to Copyright Law Thumbnails

- Perfect 10, an adult-oriented Web site featuring "beautiful natural women" in the nude, has shown that Google image search probably infringes copyright law "by creating and displaying thumbnail copies of its photographs"
- "existing judicial precedents do not allow [even enormous public benefit] to trump" copyright law

U.S. District Judge A. Howard Matz ruled [17 Feb 06]

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Consultancy
Pty Ltd

http://news.com.com/... Nude-photo+site+wins+injunction+against+Google/... 2100-1030 3-6041724.html ilciaii, ..., Oiii.

Google Print
5 Partner-Libraries
Bodleian, ..., Uni. of Michigan



Categories of Work

- Out-of-Copyright
- Orphan
- In-Copyright
 - Licensed
 - Unlicensed

Potentially Infringing Acts

- Scanning (image)
- Extracting text (OCR)
- Reproduction in the index
- Serving of some from Google Cache to users
- Soft-Copy to the Library who provided it





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Google's Challenges to Copyright Law Content Publishing

Google News and Google Library

Two actions in the U.S. District Court, NY:

- Authors Guild v. Google (Sep 2005)
- McGraw Hill & Ors v. Google (Oct 2005)

'West Coast Code v. East Coast Code' is no longer just a catchphrase

The Context Copyright Expansionism Rampant

- Large corporations dependent on monopolies
- Scared by the digital era, they have requested and been granted 'corporate welfare'
- That is constraining socially on consumers, but also economically on innovators
- The U.S. is acting bilaterally and multilaterally to extend copyright expansionism
- Many Governments are (willingly?) blind to the interests of their own countries







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Google's Challenges to Copyright Expansionism

- Opponents have included Barlow (1994), Samuelson (1996), Lessig (2000), Zittrain (2003) and recently Adelphi Charter (2005)
- **Opponents now also include Google**
- 'Old big business' sits fatly, exploits its monopolies and arranges extensions to them
- 'Newly Big Business' adapts quickly to new contexts, realises the potentials lurking inside them, and creates new monopolies that it can dominate from the outset



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Google's Challenges to Consumer Law

Consumer Benefits

- Enormous
- Gratis
- But there is consideration: acceptance of advertising. including intrusive attention-grabbing devices ('blink', popups)

Terms:

- non-negotiable
- non-transparent
- changeable at whim
- not version-managed

Recourse

all-but non-existent

No sign of recovery of lost consumer protections e.g. WSIS 2005 is vacuous

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Google's Challenges to Privacy Law

- Privacy Threats from Search-Engines Generally
- Privacy Threats from Google especially
- The Regulatory Environment(s)
- Google's Privacy Undertakings







'Research Your Next Appointment'

- Their Own Site(s)
- **Event Programs**
- Committee Minutes
- **Court Reports**
- Media Reports
 - as subject
 - as commentator
 - as bystander
 - as reporter/contributor . /poet
 - Letters to the Editor

Copyright



- **Postings**
 - email-lists
 - fora
 - blogs
- Logs (e.g. in court)
 - **IAPs**
 - **ISPs**
 - own machine
 - 'Little Black Books'
- Commercial Databases
- Dead Pages, from the Wayback Machine
- Specialist Sites, e.g. Zoominfo.com

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Privacy Threats from Open Information

Discoverability

- Data
- **Associations**

Second-Round Effects

- More Data Retention
- More Data Capture

Data Quality Problems

- Out-of-Date
- Incomplete
- Acontextual
- Inaccurate
- Scurrilous
- **Spurious**





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Email – Long-Term Risk Exposures

Both Parties's IAPs:

- IP-address(es) used, disclosing location, trail
- authorised / unauthorised disclosure, with/without notification; data retention

Mail-Recipient's ISP:

- access to, use of traffic
- access to, use of content
- authorised / unauthorised disclosure, with/without notification
- retention after download

2005-06

ISP Mail-Hosting / Webmail

long-term retention

Gmail Subscribers

- targeted ads based on text from senders, cf. consumer behaviour manipulation
- correlation with data from other services

Senders to Gmail Addresses

- examination of text
- long-term retention
- long-term unauthorised disclosure, no notification

What's Google Really Up To? Summary

- **Google's Context**
 - The Web
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- Google's Business(es)
 - Content-Discovery Services
 - Content Services
 - Data about Users

Perspectives on Google

Business Model

- Copyright Law
- Consumer Law
- and Practice **Privacy Law**
- and Practice







What's Google Really Up to?





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http://www.anu.edu.au/people/Roger.Clarke/...
.../II/GoogleHK-0611 {.html, .ppt}

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