Counting Clicks: Auditing Your Web Site Activity

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Site Management

Web

Web Site Management

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Web Site Auditing

Management

- Financial analysis
- Editorial Issues
- Art and Design
- Marketing Issues
 - Site market research
 - Advertisers' links

Internet World Agenda

- Web Server Overview
- The Web Log
- Statistical Analysis Software
- What to do with the data

Web Server Overview

- http://www.electric-pages.com
- HTTP: HyperText Transmission Protocol
- HTML: Hyper Text Markup Language
- IP: Internet Protocol Address
 - 122.22.23 > ny27.interramp.com
 - permanent or dynamic IPs

File Types

- HTML (Page Views)
- GIFs, JPGs
- MOVs, AUs, WAVs, PPTs, RAMs
- PDFs, CMXs, WRLs
- CGI Scripts

Counting Clicks

- HIT: A single file sent to a browser
- VISIT: A single visit from an IP address
- ◆ UNIQUE VISIT: Count of different IPs
 - Dynamic IPs reset every 20 minutes.
- REGISTERED USER: Subscriber
- COOKIE: Netscape secret number

The Web Log

- NCSA/CERN standards
- Access log
- Error Log
- Referer Log
- Agent Log
- Netscape, Open Market, Microsoft, others
 - Extended Log Formats

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Many log variations

Common log file format (CERN) Intersé market focus 1 database Intersé market focus 2 database ENWACS log file format hittersé extended log file format Microsoft IIS standed logging format Microsoft IIS obtended logging format Microsoft IIS standed to grile format Microsoft IIS ODBC log database NCSA combined vith servername log file format NCSA combined vith servername log file format Net Stape fiels format NCSA combined vith servername log file format Netscape Erickile log file format (Netscape Enterprise servers) Netscape Proxy extended logging format Qpen Market extended log file format Velly multihome common log file format O'Relly Windows log file format Real value log file format SiteTrack log file format Spry web server ASCII log file format Spry web server ODBC log database Universal log file format UUNET extended log file format WebStar log file format Zeus common log file format W Archive fip log file format V

-from http://www.interse.com/ourproducts/faq.html#1

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The Web Log

ip24.umich.edu - -[24/Jan/1996:12:27:13 -0500] "GET /index.html HTTP/1.0" 200 7114

Log Analysis Software

- Unix freeware
 - Getstats
 - www.stats
- Commercial packages
 - I/Audit from I/PRO & Nielsen
 - Intersé, Web Audit
- Home brew analysis

Stats Examples GETSTATS http://www.electric-page

http://www.electric-pages.com/jan96.htm

WEBAUDIT (ACNielsen, Australia) http://www.nielsen.com.au/webaudit/-#Objectives

I/PRO Third Party Auditng http://www.ipro.com

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The Web Log

- Host IP address
- Username
- Start date and time of transaction
- Request and Filename sent
- Size of file sent
- Type of browser
- Referring URL
- http status code

IP address

- 150.180.13.54
- ny25.interramp.com
- ab23.aol.com
- ip24.f-uberlin.de
- Registered domains
 - Organization
 - Location

Invisible readers

Internet gateways

- ISPs or corporate networks
- Allocate dynamic lps
- Cache pages
- Browser cache
 - Intermittently updated
- Off-line browsers

Time of transaction

- Starting time is logged
- Ending time can be computed
- Local time can be guessed
- Time stats show
 - Event effects
 - Peak usage
 - Weekend vs weekday activity
 - Working day vs lunch hour and home time

Request and file name

- Which pages are hot
- Which pages are not
- Sorting by directory
- Screening out GIFs and JPEGs
 - Measuring the reader's patience and the art director's skill

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Referrer URL

- Where readers came from
- Which ad placements work best
- What search targets brought the most traffic

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What to do with the data

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Better measurement

- Logging client usage with cookies
- Registering users/subscribers
- Writing profiles
- Server-side
- Client-side
- Sharing cookies
- No two web pages will ever be the same

What do things cost?

- Hosting service stats
- Shareware
 - Server-based Unix programs.
 - PC-based dedicated systems
- Commercial products
 - PC-based

Ad Pricing Options

- Standard space ad deal

 Bottom-up TFN CPMs
- Basic rate plus per inquiry
- Per inquiry only
- Percentage of transactions
- Confusing combinations
- CASIE standards versus smart buyers

Clickstream trends

- Basic site research
 - Management
 - Editorial research
 - Advertising
- Customization/personalization
 - HTML-on-the-fly
 - Tuning the editorial and ads to the reader

Web publishing futures

- Privacy concerns
 - Browser aliasing
 Cookie warping
 - Cookie warping
- Constant editorial reengineering
- Algorithmic advertising
- Combining electronic with conventional research