

Web Metrics

Measuring the Mountain with a Yardstick

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Topics

- What Differs in Web Metrics
- Our Information Base
- What is Profiling?
- What We Get Out of Web Metrics



Setting Goals

- Know your Audience
 - Who are your clients?
 - Who is using your site?
- Know your Targets
 - Do you want visitors? Clients? New Clients?
 - How many of each?
- Know Yourself
 - Where does your company need to improve?
 - What does your company want to promote?



The Old and the New

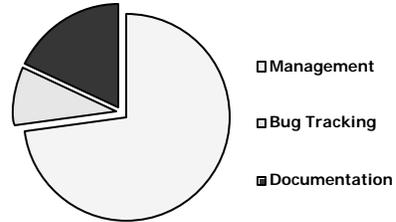
- Standard Metrics
 - Improve the Development Process
 - Improve Software Estimating
 - Improve Project Tracking
 - Decrease Schedule
 - Decrease Development Costs
 - Improve Software Quality
 - Improve Software Performance
 - Improve Productivity
- Additional Web Metrics
 - Improve Usability
 - Improve Software Performance
 - Minimize Schedule
 - Improve User Satisfaction

Author's Note: Web Metrics are a refinement of standard metrics; all of the standard metrical analyses also apply to web development



How we got our numbers

- Standard Metrics
 - Where do we get our numbers?
 - How do we use our numbers?
 - Development Improvement
 - Testing Improvement
 - Structural Improvement

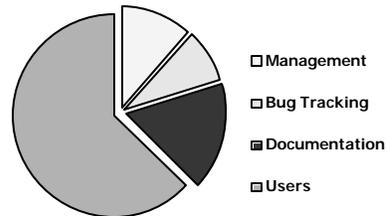


Author's Note: Now that we know what we know about software development and acceptance we can redefine metrics as not just a development tool, but an integrated tool to improve process, product and service.



How we can get our numbers

- Web Metrics
 - Where do we get our numbers?
 - More direct input from users
 - Indirect information from servers
 - Data sources on line



Author's Note: It is increasingly common for centralized data stores, such as statmarket, to gather logs from thousands of contributing organizations, greatly increasing the amount of data we have at our disposal.



Where we get what

- <http://www.statmarket.com/>
 - <http://www.webcmo.com>
 - http://www2.emarketer.com/account_manager.php
 - <http://www.netratings.com>
 - <http://www.nua.ie/surveys/index.cgi>
 - <http://www.internet.com>
 - <http://www.wilsonweb.com/webmarket/>
 - http://www.cc.gatech.edu/gvu/user_surveys/
 - <http://www.thestandard.com/metrics/?tab>
 - <http://www.Cyberatlas.internet.com>
 - <http://www.mediametrix.com>
 - <http://www.forrester.com>
 - <http://www.emarketing.com>
 - <http://www.nist.gov/webmetrics>
 - <http://www.business2.com/articles/mag/0,1640,14594,FF.html>
- Online sources
 - Free Sources
 - Paid Sources



What we already have

- Information that is being collected automatically

- Server Logs

```
172.16.1.18 - - [17/Apr/2001:15:18:32 -0400]
"GET /images/2a.gif HTTP/1.1" 200 1708
"http://tplus1centrall.dkl.com/" "Mozilla/4.0
(compatible; MSIE 5.5; Windows 98)"
```



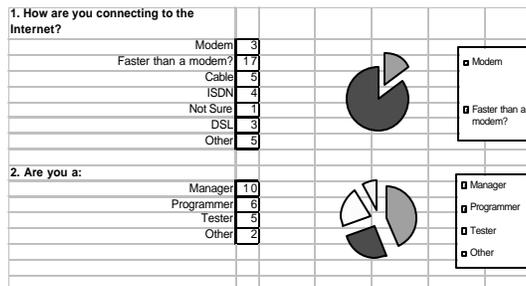
Breaking it down

- What it is
 - 172.16.1.18 (the IP address)
 - [17/Apr/2001:15:18:32 - 0400] (time/date stamp)
 - GET /images/2a.gif HTTP/1.1 (the action)
 - http://tplus1central1.dkl.com/ (the referring URL)
 - Mozilla/4.0 (compatible; MSIE 5.5; Windows 98) (the client)
- What it tells us
 - Where they are coming from
 - When they got this item
 - What item they retrieved
 - Where did they come from
 - What browser/operating system they used



Where we get what (cont.)

- Direct User Input
 - Surveys
 - Contests
 - Feedback forms
 - email
 - Beta testing



Profiling the users

- What is Profiling?
 - Online profiling: the technique of tracking Web surfers' movements to better determine their usage patterns
 - Constructing "typical" users based on gathered information
- What is it used for?
 - Primarily used for marketing and sales
 - Can be used to identify groups of users for testing purposes
 - It is a combination of external and internal information
 - Brings up privacy issues



Privacy

- Privacy Dos
 - Testing and Sales/Marketing must agree on a privacy policy for customer info
 - Policy must be posted to the web
 - Information on profiling use must be included
- Privacy Don'ts
 - This information should not be used for any purposes other than those described in the privacy policy
 - Information should NEVER be given away or sold
 - Information should be anonymous



How do we use the information?

- Structural Info

- Baseline Client Environment
- Preferred Client Environment
- Bandwidth Supported
- Resolutions Supported
- Colour Depth Supported
- Server Requirements
- Plug-ins Necessary
- Create Test Environment(s)



Author's Note: We can use outside information on general web usage to describe our baseline client machine, and augment this with site specific data collected from our users to define our preferred configuration.

How do we use the information?

- Functional Info

- What information to provide
- How it is to be presented
- Defining Primary & Secondary users
- Building a community



Author's Note: With the acute need for user feedback in development and maintenance of web-based products, user issues have finally made inroads to development itself.

Conclusion

- What we measure
 - What people use
 - What people want
 - How people group
- What we learn
 - What data to collect and use
 - How to use it effectively
 - When it should be done



Conclusion

Thank you for attending

If you would like more information on this subject,
please visit
conference.dkl.com
for our online testing conference

