Contents

Introduction

Chapter 1  The Bold New World of Web Analytics 2.0  1

State of the Analytics Union  ............................................. 2
State of the Industry .......................................................... 3
Rethinking Web Analytics: Meet Web Analytics 2.0 ................. 4
The What: Clickstream ......................................................... 7
The How Much: Multiple Outcomes Analysis ........................... 7
The Why: Experimentation and Testing .................................. 8
The Why: Voice of Customer .................................................. 9
The What Else: Competitive Intelligence ................................. 9
Change: Yes We Can! ............................................................ 10
The Strategic Imperative ....................................................... 10
The Tactical Shift ............................................................... 11
Bonus Analytics ................................................................. 13

Chapter 2  The Optimal Strategy for Choosing Your Web Analytics Soul Mate  15

Predetermining Your Future Success ..................................... 16
Step 1: Three Critical Questions to Ask Yourself Before You Seek an Analytics Soul Mate! ......................................................... 17
Q1: “Do I want reporting or analysis?” ...................................... 17
Q2: “Do I have IT strength, business strength, or both?” ............... 19
Q3: “Am I solving just for Clickstream or for Web Analytics 2.0?” .................................................................... 20
Step 2: Ten Questions to Ask Vendors Before You Marry Them ...... 21
Q1: “What is the difference between your tool/solution and free tools from Yahoo! and Google?” ................................................. 21
Q2: “Are you 100 percent ASP, or do you offer a software version? Are you planning a software version?” .............................................. 22
Q3: “What data capture mechanisms do you use?” ....................... 22
Q4: “Can you calculate the total cost of ownership for your tool?” ........................................................................ 23
Q5: “What kind of support do you offer? What do you include for free, and what costs more? Is it free 24/7?” .................................. 24
Q6: “What features in your tool allow me to segment the data?” .......... 25
Q7: “What options do I have for exporting data from your system into our company’s system?” ................................................. 25
Q8: “What features do you provide for me to integrate data from other sources into your tool?” .................................................. 26
Q9: “Can you name two new features/tools/acquisitions your company is cooking up to stay ahead of your competition for the next three years?” ........................................................................ 26
Q10: “Why did the last two clients you lost cancel their contracts? Who are they using now? May we call one of these former clients?” ................................................................. 27
Comparing Web Analytics Vendors: Diversify and Conquer .......... 28
The Three-Bucket Strategy ..................................................... 28
Step 3: Identifying Your Web Analytics Soul Mate (How to Run an Effective Tool Pilot) ................................................. 29
Step 4: Negotiating the Prenuptials: Check SLAs for Your Web Analytics Vendor Contract .......................... 32

Chapter 3  The Awesome World of Clickstream Analysis: Metrics  35
Standard Metrics Revisited: Eight Critical Web Metrics .......... 36
Visits and Visitors 37
Time on Page and Time on Site 44
Bounce Rate .................................... 51
Exit Rate ..................................... 53
Conversion Rate ................................ 55
Engagement ................................... 56
Web Metrics Demystified .......................... 59
Four Attributes of Great Metrics 59
Example of a Great Web Metric 62
Three Avinash Life Lessons for Massive Success 62
Strategically-aligned Tactics for Impactful Web Metrics .......... 64
Diagnosing the Root Cause of a Metric’s Performance—Conversion 64
Leveraging Custom Reporting 66
Starting with Macro Insights 70

Chapter 4  The Awesome World of Clickstream Analysis: Practical Solutions  75
A Web Analytics Primer ................................ 76
Getting Primitive Indicators Out of the Way 76
Understanding Visitor Acquisition Strengths 78
Fixing Stuff and Saving Money 79
Click Density Analysis 81
Measuring Visits to Purchase 83
The Best Web Analytics Report .................................. 85
Sources of Traffic 86
Outcomes 87
Foundational Analytical Strategies ............................. 87
Segment or Go Home 88
Focus on Customer Behavior, Not Aggregates 93
Everyday Clickstream Analyses Made Actionable .............. 94
Internal Site Search Analysis 95
Search Engine Optimization (SEO) Analysis 101
Pay Per Click/Paid Search Analysis 110
Direct Traffic Analysis 116
Email Campaign Analysis 119
Rich Experience Analysis: Flash, Video, and Widgets 122
Reality Check: Perspectives on Key Web Analytics Challenges ........................ 126
Visitor Tracking Cookies 126
Data Sampling 411 130
The Value of Historical Data 133
The Usefulness of Video Playback of Customer Experience 136
The Ultimate Data Reconciliation Checklist 138

Chapter 5  The Key to Glory: Measuring Success 145
Focus on the “Critical Few” .......................... 147
Five Examples of Actionable Outcome KPIs ................. 149
Task Completion Rate 149
Share of Search 150
Visitor Loyalty and Recency 150
RSS/Feed Subscribers 150
% of Valuable Exits 151
Moving Beyond Conversion Rates ........................ 151
Cart and Checkout Abandonment 152
Days and Visits to Purchase 153
Average Order Value 153
Primary Purpose (Identify the Convertible) 154
Measuring Macro and Micro Conversions ....................... 156
Examples of Macro and Micro Conversions 158
Quantifying Economic Value ............................... 159
Measuring Success for a Non-ecommerce Website ............. 162
Visitor Loyalty 162
Visitor Recency 164
Length of Visit 165
Depth of Visit 165
Measuring B2B Websites .................................... 166

Chapter 6  Solving the “Why” Puzzle: Leveraging Qualitative Data 169
Lab Usability Studies: What, Why, and How Much? ............ 170
What Is Lab Usability? 170
How to Conduct a Test 171
Best Practices for Lab Usability Studies 174
Benefits of Lab Usability Studies 174
Areas of Caution 174
Usability Alternatives: Remote and Online Outsourced ........ 175
Live Recruiting and Remote User Research 176
Surveys: Truly Scalable Listening ........................... 179
Types of Surveys 180
The Single Biggest Surveying Mistake 184
Three Greatest Survey Questions Ever 185
Eight Tips for Choosing an Online Survey Provider 187
Web-Enabled Emerging User Research Options ............... 190
Competitive Benchmarking Studies 190
Rapid Usability Tests 191
Online Card-Sorting Studies 191
Artificially Intelligent Visual Heat Maps 192
### Chapter 7  Failing Faster: Unleashing the Power of Testing and Experimentation

- A Primer on Testing Options: A/B and MVT ........................................ 197
- A/B Testing .......................................................... 197
- Multivariate Testing .................................................. 198

- Actionable Testing Ideas ................................................. 202
- Fix the Big Losers—Landing Pages ................................. 202
- Focus on Checkout, Registration, and Lead Submission Pages ........................................... 202
- Optimize the Number and Layout of Ads ....................... 203
- Test Different Prices and Selling Tactics ....................... 203
- Test Box Layouts, DVD Covers, and Offline Stuff .............. 204
- Optimize Your Outbound Marketing Efforts .................... 204

- Controlled Experiments: Step Up Your Analytics Game! ........ 205
- Measuring Paid Search Impact on Brand Keywords and Cannibalization .................. 205
- Examples of Controlled Experiments .......................... 207
- Challenges and Benefits .............................................. 208

- Creating and Nurturing a Testing Culture ....................... 209
- Tip 1: Your First Test is “Do or Die” ............................. 209
- Tip 2: Don’t Get Caught in the Tool/Consultant Hype ......... 209
- Tip 3: “Open the Kimono”—Get Over Yourself .......... 210
- Tip 4: Start with a Hypothesis ........................................ 210
- Tip 5: Make Goals Evaluation Criteria and Up-Front Decisions ........................................ 210
- Tip 6: Test For and Measure Multiple Outcomes .................. 211
- Tip 7: Source Your Tests in Customer Pain ..................... 211
- Tip 8: Analyze Data and Communicate Learnings ............. 212
- Tip 9: Two Must-Haves: Evangelism and Expertise .......... 212

### Chapter 8  Competitive Intelligence Analysis

- CI Data Sources, Types, and Secrets ............................ 214
- Toolbar Data .......................................................... 215
- Panel Data ............................................................. 216
- ISP (Network) Data .................................................. 217
- Search Engine Data ................................................... 217
- Benchmarks from Web Analytics Vendors ..................... 218
- Self-reported Data ..................................................... 219
- Hybrid Data ........................................................... 220

- Website Traffic Analysis .............................................. 221
- Comparing Long-Term Traffic Trends ......................... 222
- Analyzing Competitive Sites Overlap and Opportunities .... 223
- Analyzing Referrals and Destinations ........................... 224

- Search and Keyword Analysis .................................... 225
- Top Keywords Performance Trend ............................... 226
- Geographic Interest and Opportunity Analysis ............... 227
- Related and Fast-Rising Searches ............................... 230
- Share-of-Shelf Analysis .............................................. 231
- Competitive Keyword Advantage Analysis .................... 233
- Keyword Expansion Analysis .................................... 234
### Audience Identification and Segmentation Analysis ........................ 235
Demographic Segmentation Analysis ........................................... 236
Psychographic Segmentation Analysis ......................................... 238
Search Behavior and Audience Segmentation Analysis ...................... 239

#### Chapter 9  **Emerging Analytics: Social, Mobile, and Video**  

Measuring the New Social Web: The Data Challenge ......................... 242
The Content Democracy Evolution ............................................. 243
The Twitter Revolution .......................................................... 247

Analyzing Offline Customer Experiences (Applications) ...................... 248

Analyzing Mobile Customer Experiences ...................................... 250
Mobile Data Collection: Options ............................................... 250
Mobile Reporting and Analysis ................................................. 253

Measuring the Success of Blogs .................................................. 257
Raw Author Contribution ......................................................... 257
Holistic Audience Growth ....................................................... 258
Citations and Ripple Index ....................................................... 262
Cost of Blogging ................................................................. 263
Benefit (ROI) from Blogging ..................................................... 263

Quantifying the Impact of Twitter ............................................... 266
Growth in Number of Followers .................................................. 266
Message Amplification ............................................................ 267
Click-Through Rates and Conversions ......................................... 268
Conversation Rate ............................................................... 270
Emerging Twitter Metrics .......................................................... 271

Analyzing Performance of Videos ............................................... 273
Data Collection for Videos .......................................................... 273
Key Video Metrics and Analysis ................................................. 274
Advanced Video Analysis .......................................................... 278

#### Chapter 10  **Optimal Solutions for Hidden Web Analytics Traps**  

Accuracy or Precision? ............................................................. 284

A Six-Step Process for Dealing with Data Quality ............................. 286

Building the Action Dashboard .................................................... 288
Creating Awesome Dashboards ................................................... 288
The Consolidated Dashboard ....................................................... 290
Five Rules for High-Impact Dashboards ....................................... 291

Nonline Marketing Opportunity and Multichannel Measurement .............. 294
Shifting to the Nonline Marketing Model ..................................... 294
Multichannel Analytics ............................................................. 296

The Promise and Challenge of Behavior Targeting ............................ 298
The Promise of Behavior Targeting ............................................. 299
Overcoming Fundamental Analytics Challenges ................................ 299
Two Prerequisites for Behavior Targeting ..................................... 301
Chapter 12  Advanced Principles for Becoming an Analysis Ninja  357

Multitouch Campaign Attribution Analysis .......................... 358
What Is All This Multitouch? 358
Do You Have an Attribution Problem? 359
Attribution Models 361
Core Challenge with Attribution Analysis in the Real World 364
Promising Alternatives to Attribution Analysis 365
Parting Thoughts About Multitouch 368

Multichannel Analytics: Measurement Tips for a Nonline World... 368
Tracking Online Impact of Offline Campaigns 369
Tracking the Offline Impact of Online Campaigns 376

Chapter 13  The Web Analytics Career  385

Planning a Web Analytics Career: Options, Salary
Prospects, and Growth ..................................................... 386
Technical Individual Contributor 388
Business Individual Contributor 388
Technical Team Leader 390
Business Team Leader 391

Cultivating Skills for a Successful Career in Web Analysis ......... 393
Do It: Use the Data 393
Get Experience with Multiple Tools 393
Play in the Real World 394
Become a Data Capture Detective 396
Rock Math: Learn Basic Statistics 396
Ask Good Questions 397
Work Closely with Business Teams 398
Learn Effective Data Visualization and Presentation 398
Stay Current: Attend Free Webinars 399
Stay Current: Read Blogs 400

An Optimal Day in the Life of an Analysis Ninja ................. 401

Hiring the Best: Advice for Analytics Managers and Directors..... 403
Key Attributes of Great Analytics Professionals 404
Experienced or Novice: Making the Right Choice 405
The Single Greatest Test in an Interview: Critical Thinking 405

Chapter 14  HiPPOs, Ninjas, and the Masses: Creating a Data-Driven Culture  407

Transforming Company Culture: How to Excite
People About Analytics .................................................. 408
Do Something Surprising: Don’t Puke Data 409

Deliver Reports and Analyses That Drive Action ................. 412
The Unboring Filter 413
Connecting Insights with Actual Data 414