

# Tropical Search Engine Optimization & The Future of Broadband

by Web Site Optimization, LLC

Prepared by:  
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Web Site Optimization, LLC  
<http://www.WebSiteOptimization.com>

April 2005

# Requisite Pithy and Profound Quotes

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*“Half the money I spend on advertising is wasted,  
the trouble is I don't know which half.”*

– John Wanamaker (attributed)  
US department store merchant (1838 - 1922)

*"What kills a skunk is the publicity it gives itself."*

– Abraham Lincoln, in *The Fitzhenry &  
Whiteside Book of Quotations*, 1993

*"The right name is an advertisement in itself."*

– *Claude C. Hopkins*, quoted in *Randall Rothenberg*,  
*Where the Suckers Moon: An Advertising Story*, 1994

# Talk Outline

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Andy King Intro

Tropical SEO

Introduction to SEO – Glossary / The 3 Keys

High Ranking Benefits

Compelling Stats / Overview

Gender Preferences / Education

Click Behavior

Best / Worst Practices

Keyword Research / Aruba Hotel example

Case Studies – Good & Bad SEO

The Future of Broadband

What Is Broadband?

Broadband Penetration Trends – U.S. / Europe

Broadband Penetration vs. Household Income

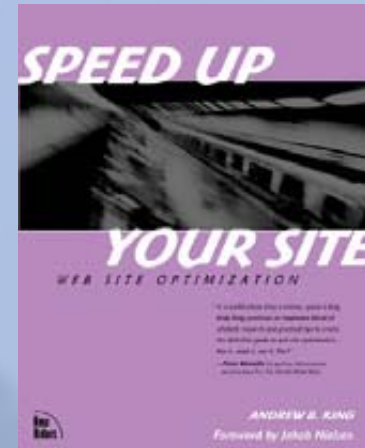
# About Andy King

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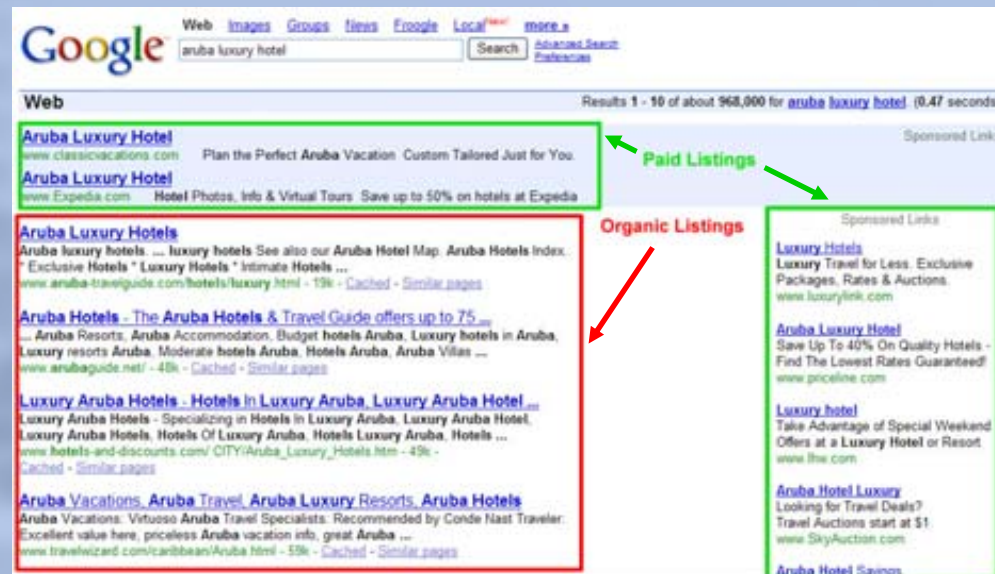
Andy King is the founder of WebReference.com, JavaScript.com, and more recently WebSiteOptimization.com and OptimizationWeek.com. He holds two degrees from the University of Michigan in Mechanical Engineering and started his career as a structural engineering consultant. Once he saw the Web for the first time in 1993 he was hooked. WebReference was acquired by Mecklermedia (now **Jupitermedia**) in 1997, where he and his staff worked for four years.

He is the President of Web Site Optimization, LLC, a web optimization firm based in Ann Arbor, Michigan, USA. WSO specializes in raising the ROI of existing web sites through web performance optimization, search engine marketing, persuasive copywriting, and web site redesign. **WebSiteOptimization.com** provides news and information on the web optimization industry, consulting services, along with a companion site for his book, *Speed Up Your Site: Web Site Optimization*.



# SEO Glossary

- SEO – Search Engine Optimization
- SEM – Search Engine Marketing (SEO + PPC etc.)
- PR – PageRank, a number denoting the importance of a web page at Google
- CPC – Cost Per Click
- PPC – Pay Per Click
- CTR – Click-through Rate
- Landing page – a keyword-focused page (one theme) designed to convert
- Splash page – rich graphical page designed to entice/impress
- “Above the fold” – first screen of page visible (old newspaper term)
- ROI – Return On Investment



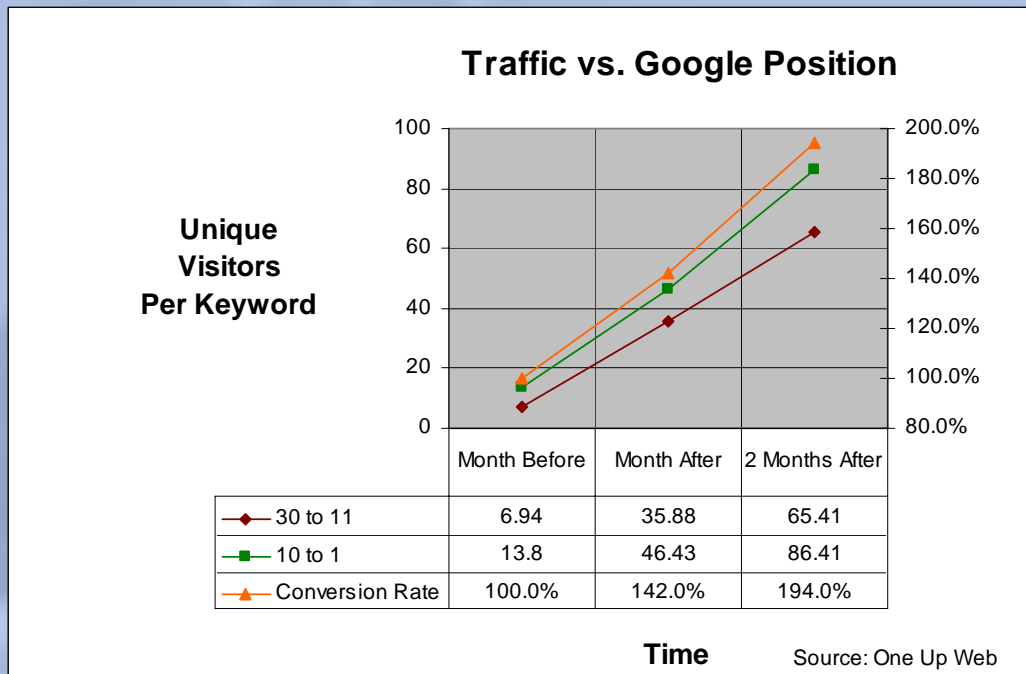
# What Is Search Engine Optimization?

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- Search Engine Optimization (SEO) is the art and science of raising web site visibility in search engines and directories to increase targeted leads.
- 3 Keys - Creating SEO-friendly sites
  - **Linkworthy**: make it useful and compelling
    - SEO is inextricably intertwined with web site design & content
  - **On-site optimization**
    - Keyphrase / theme optimization – keyword-focused content
    - More content = higher PR
    - Follow best practices avoid worst
  - **Off-site optimization**
    - Maximize high PR inbound links (backlinks)
    - Keyphrase filled anchor text (example: [keyphrase.com](http://keyphrase.com) is ideal)
    - Match theme with your site

# High Ranking Benefits

- Appear on 2<sup>nd</sup> or 3<sup>rd</sup> page of Google (positions 11-30)
  - One month after - 5.2 times original traffic
  - Two months after – 9.4 times original traffic
- Appear on 1<sup>st</sup> page of Google (Top 10)
  - One month after 30% more traffic of 2/3 page (3.36 X Original)
  - Two months after 30% more traffic of 2/3 page (6.26 X Original)
  - Conversion rate up 42% after 1<sup>st</sup> month, up 94% after 2<sup>nd</sup> month



# Compelling SEO Stats

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- Every day, the search engines and directories average 300-500 MILLION searches (multiple sources)
- In a recent Forrester Research report, 81% of consumers on the Internet find products by using search engines.
- Unfortunately, only 7% of all web sites are visible by the search engines according to a recent StatMarket.com study. Most web sites are not properly optimized for maximum Search Engine Visibility.
- In fact, only 9% of the Fortune 100 have effective SEO and 44% use no SEO! (Source: One Up Web)

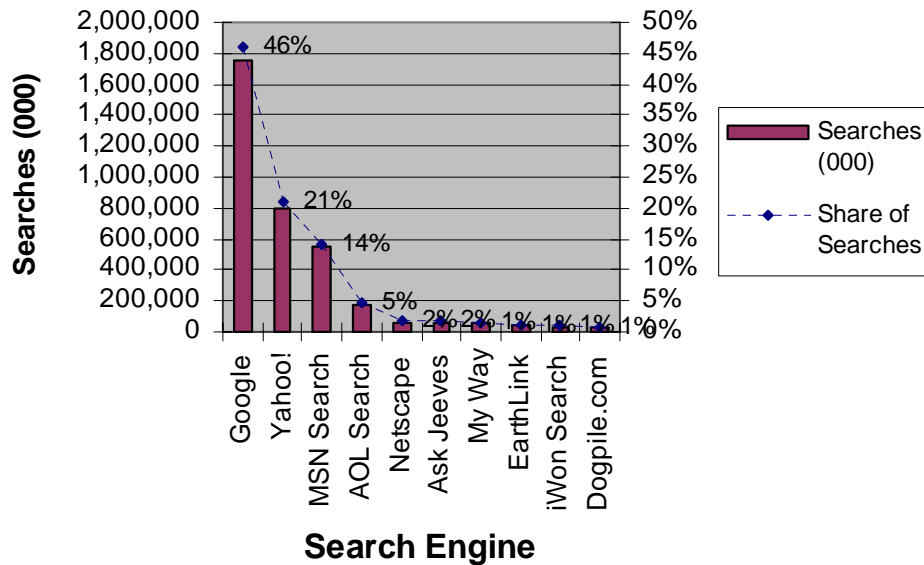
*I'll show you how to optimize your site for higher search engine rankings.  
This presentation is geared towards the Aruban travel industry.*



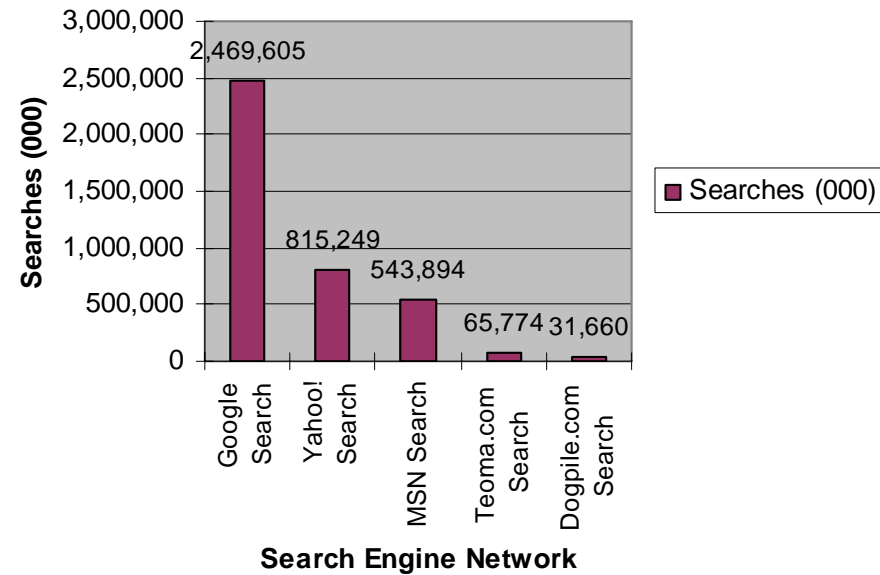
# SEO from 100,000 feet

- **Google dominates** the search engine landscape (46% share)
- 82.9% of all business users prefer Google, 86.9% for high income businesses – Marketing Sherpa, 2004.
- Google has over **3 times** the search traffic than Yahoo!  
after adding up all the sites it supplies results to (AOL, Netscape...)

## Top Search Engines by Searches



## Top Search Engine Networks by Searches



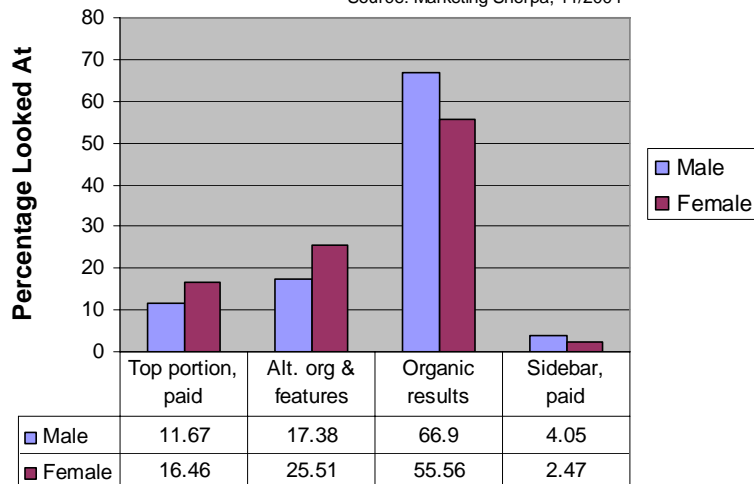
Source: Nielsen//NetRatings – Feb. 2005

# Search Engine Preferences by Gender/Education

- Males tend to gravitate towards Google
- Females prefer MSN and Yahoo
- Women click on paid ads more than men
- Males tend to go for the organic results, women spread clicks around
- Google users are more likely to have a college degree

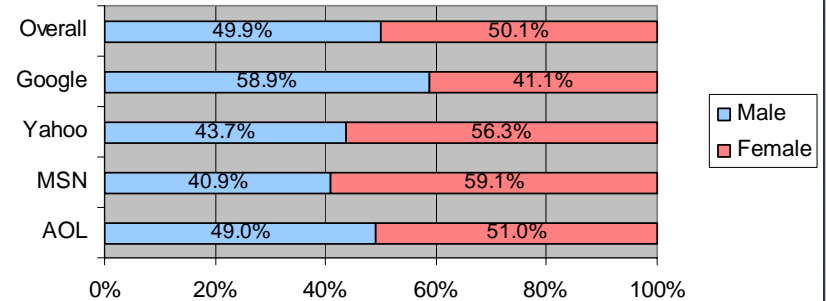
### Area First Looked at & Gender

Source: Marketing Sherpa, 11/2004



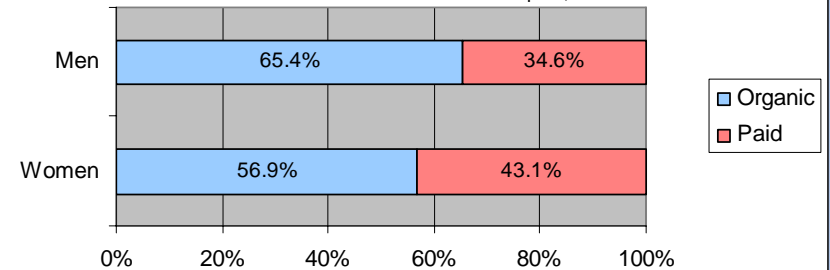
### Top Search Engine Preferences by Gender (US Only)

Source: iProspect, Search Engine User Attitudes, 05/2004



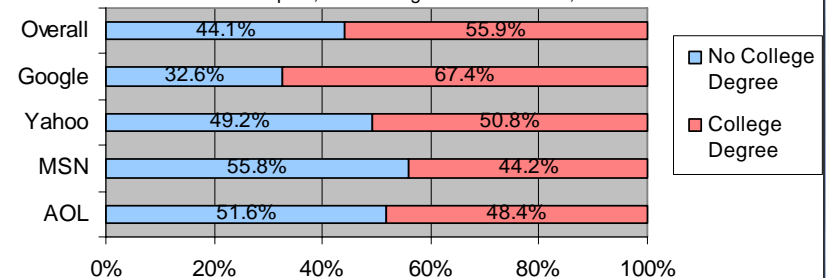
### Gender Preferences in Paid Search vs. Organic Search

Source: iProspect, 05/2004



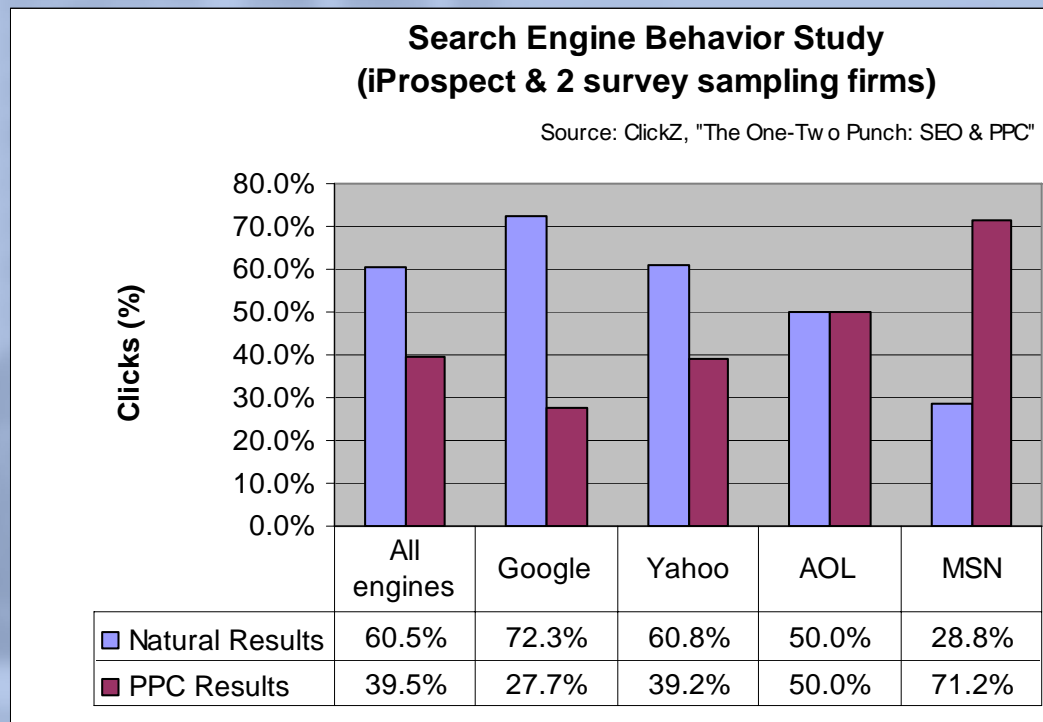
### Top Search Engines - Preference by College Degree

Source: iProspect, Search Engine User Attitudes, 05/2004



# Search Engine Behavior – Where do people click?

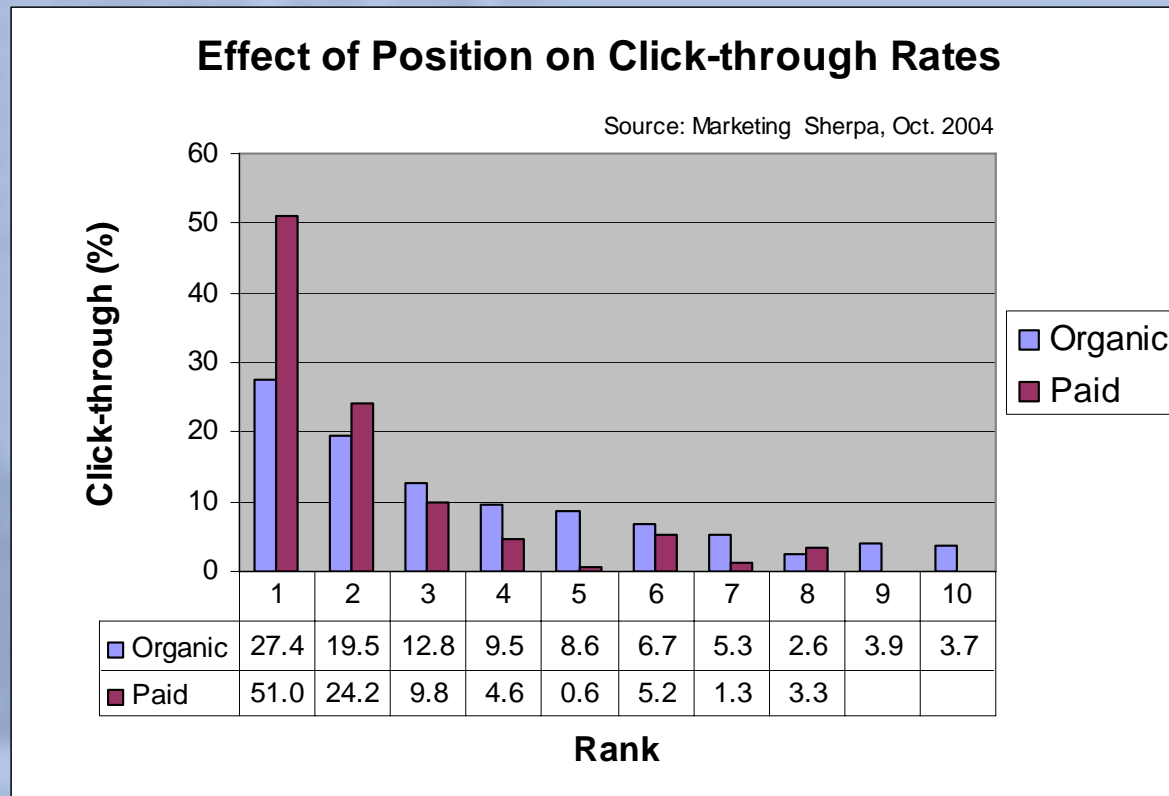
1. Overall 60.5% click on natural results, more with higher income
2. Google has highest CTR for natural results (72.3%)
3. MSN reverses this trend, with more PPC ads displayed
4. Search engines vary displaying PPC results (labeling)
5. Conclusion: for maximum coverage, do both natural & PPC SEM
6. **Lopsided ad budgets:** Search marketers spent \$3.3 billion on PPC ads in 2004, but only \$238.5 million on SEO (Marketing Sherpa, 2004)



# Search Engine Position & Click-through

What effect does position have on click-through rates?

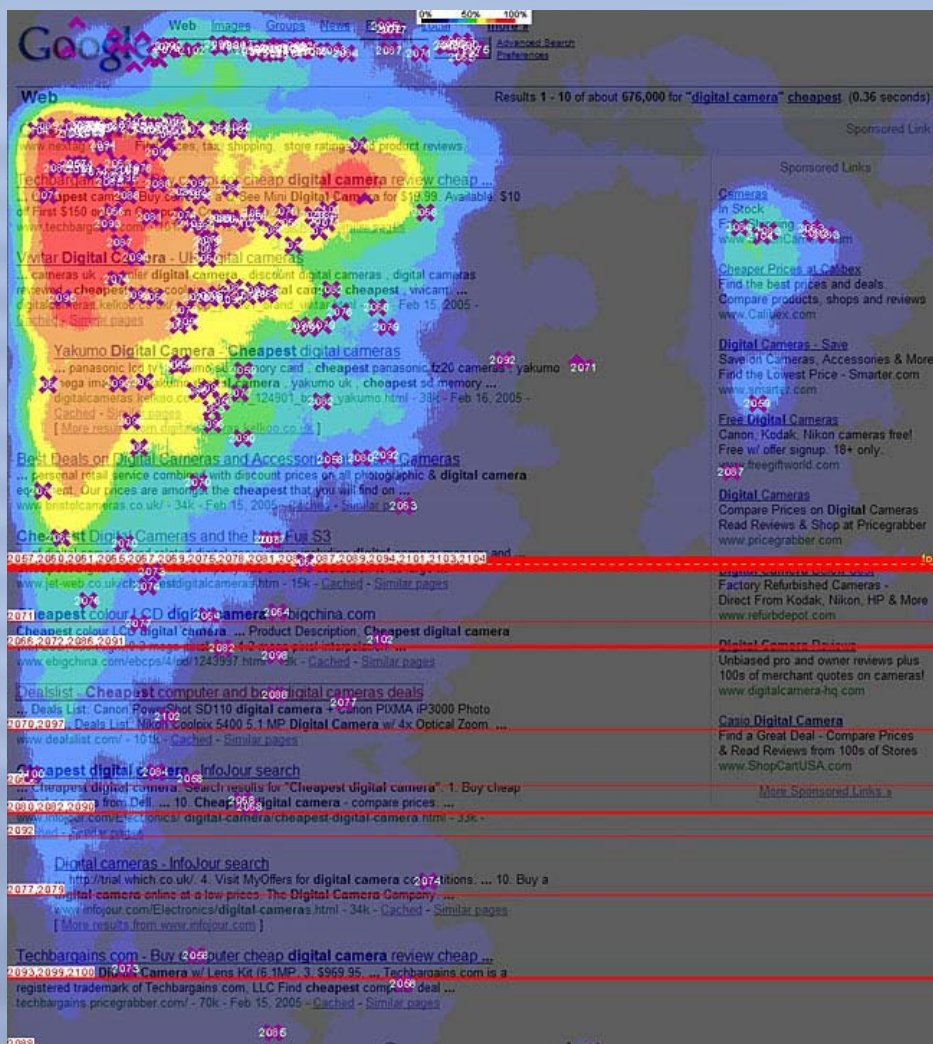
1. Over 50% click on the first paid ad
2. Nearly 60% click on the first three organic results
3. Even at #9 or #10 organic results still draw nearly 4%



# Eye-tracking Study Reveals Search's "Golden Triangle"

Positioning is important, here's the proof. We click where our eyes dwell.

1. Above the fold F-shaped triangle viewed by 100% tested
2. Drops to 50% to 20% below fold
3. Top paid ads seen by 80-100%
4. Top side paid seen by 50-10%



**Organic Ranking Visibility**  
(shown is a percentage of participants looking at a listing in this location)

**Side sponsored ad visibility**  
(shown is percentage of participants looking at an ad in this location)

- Rank 1 - 100%
- Rank 2 - 100%
- Rank 3 - 100%
- Rank 4 - 85%
- Rank 5 - 60%
- Rank 6 - 50%
- Rank 7 - 50%
- Rank 8 - 30%
- Rank 9 - 30%
- Rank 10 - 20%

- 1 – 50%
- 2 – 40%
- 3 – 30%
- 4 – 20%
- 5 – 10%
- 6 – 10%
- 7 – 10%
- 8 – 10%

Source: "Did-it, Enquiro, and Eyetools uncover Search's Golden Triangle," <http://www.enquiro.com/eye-tracking-pr.asp> 04/2005

# Ideal SEO Sequence

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- **Keyword research** - narrow topically/geographically - find a niche
- Buy **definitive domain** - include primary keyphrase, no underscores, can use dashes - period (i.e., arubaluxuryhotels.com etc.)
- **Rename your business** as your top keyphrase (Aruba Luxury Hotels, Inc.)
- **Linkworthy site**: Create SEO-friendly site with fresh content, tools, info.
- **Optimize** site for high search engine visibility
  - Integrate top keyphrases into design process up front
  - Create buzz with news/content/tools/software
  - Get indexed
  - Mix last two items well and repeat
- **Get links**, links, and more links (relentless PR)

# Usual SEO Sequence

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## **Existing site with average content or news**

- Poor content that offers no benefits to target audience
- Unprofessional look and feel
- Weak “call to action”
- Slow

## **SEO barriers**

- Graphic text / Flash – little text to index
- JavaScript menus – use list-based menus instead
- Dynamic content (client-side)
- Splash pages – low text, high bailout rates (30-70%)

**Convert barriers** into CSS XHTML or redesign site

**SEO optimize** site & PPC

**Monthly follow-up** gives optimal results

**Buzz** (regular content, tools, web-savvy PR firm, RSS)

# On-site Optimization

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- **Keyword research** - find top keyphrases that people search for you with
- **Site architecture** – use top keywords in:
  - Link text / breadcrumbs
  - URLs
  - Avoid moving pages if you have backlinks
- **Rework content/code**
  - Create keyword-focused pages with single theme per page
  - Strategically sprinkle keyphrases into key areas of pages
    - Title / Headers / Body copy / links / META / ALT / filenames...
  - Maximize usability and accessibility
  - Use Web standards
    - Text-based menus (Google looks for lists)
    - CSS H1, H2, H3 Headers (sIFR) not graphic text
    - Validate code (Google ranks valid pages higher) [validator.w3.org](http://validator.w3.org)



# Top 10 On-page Optimization Tips – Best Practices

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1. Buy the **definitive domain name** with your top keyphrase
2. Use keyphrase(s) up front in TITLE tag (Aruba Luxury Hotel - ...)
3. Use keyphrase in rest of url (filenames/directories) Good:  
aruba.com/luxury-hotel/ - bad: islands.com/search?165\_&^%
4. Use **text-based headers** (h1 - h3) with keywords
5. Use keyphrase in first 25 words (prominence, avoid embedded CSS/JS)
6. Make **keyword-focused pages** (single theme matches queries)
7. Use keywords in links/anchor text <a href="wyndham.html">Wyndham  
Luxury Hotel...</a>
8. Use keywords in ALT attributes (
9. Use **text-based menus** / lists
10. Write **full sentences** - Google favors sentences over fragments

# Bottom 10 On-page Optimization Tips – Worst Practices

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1. Use lots of Flash and splash pages
2. Make it all graphics (including the text)
3. Waste your TITLE tag (“Welcome to Company.com,” “Home page of,” or even worse with no TITLE - <http://www.company.com>)
4. Make it difficult to navigate (like a game)
5. Use the same META tags on every page
6. Fake XHTML structure (graphic headers etc.)
7. Stuff lots of keywords into your page – “Keyword Stuffing”
8. Make it inaccessible (no ALT attributes) & hard to use
9. Throw everything into one page – a sales letter
10. Make is as slow as possible

# Off-site Optimization: Acquiring Links

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## The Top 4 Strategies for Acquiring Links to Your Web Site:

- **Higher PR** - Get a higher Google PageRank score than your competition by getting more higher PR inbound links. Close Google PageRank gaps.

View PageRank with Google Toolbar or [prsearch.net](http://prsearch.net)

- **Relevancy** - Get more relevant links than your competition
- **Diversify** - Get more links on more varied sites than your competition
- **Keyword Links** – get top keywords in anchor text of in-bound links

# Advanced Linking Strategies

- Use keywords in the anchor text of your in-bound links.

“**Anchor text**” is the **visible text** within a hyperlink. **Text links** and **anchor text** are the two **most important criteria** for how Google and other top search engines rank web sites. Here are some examples of links containing anchor text...

## [Merchant Accounts by Charge.com](#)

Charge.com provides online business owners with merchant accounts to accept credit cards.

- **Banners with Text Links:**



FREE Setup  
FREE Application  
FREE Technical Support  
FREE Shopping Cart  
FREE Internet Check Software



[Merchant Accounts](#)  
[By Charge.com](#)

# Off-site Optimization: PageRank

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Google's all-important PageRank algorithm doesn't determine your overall ranking, but is an important factor.

“We assume page A has pages T1...Tn which point to it (i.e., are citations). The parameter d is a damping factor which can be set between 0 and 1. We usually set d to 0.85. C(A) is defined as the number of links going out of page A. The PageRank of a page A is given as follows:”

$$PR(A) = (1-d) + d (PR(T1)/C(T1) + \dots + PR(Tn)/C(Tn))$$

To improve your PageRank (and ranking on other search engines)

- Get more links from high PageRanked sites
- For higher PageRank fewer links in referring page the better
- Create a hierarchical linking/structure to your site, not a mesh
- Create more pages = higher site PageRank
- Promote and optimize new pages to maximize total PageRank
- Use keyphrases in inbound/outbound links in the theme of external/internal pages

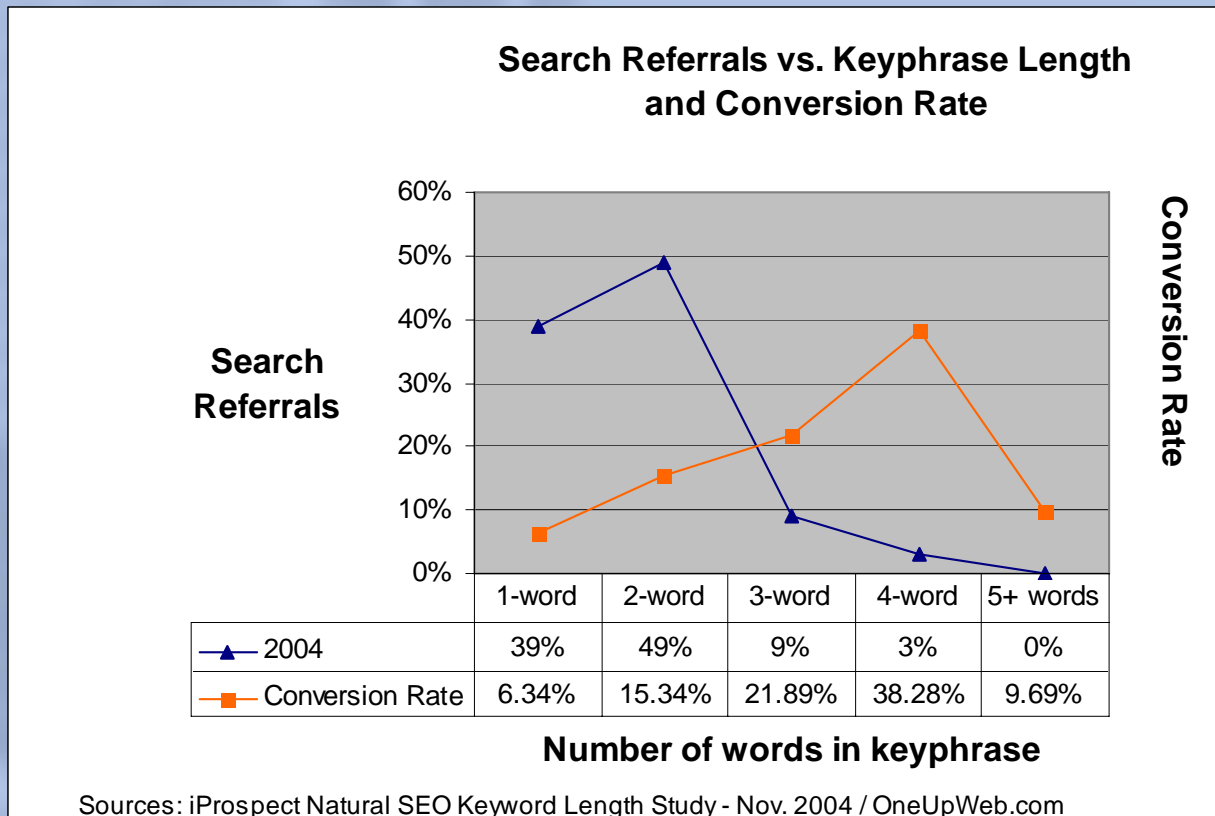
# Keyword Research Steps

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- Choose keyphrases that are narrow enough to rank well, and broad enough to garner adequate traffic
- Use Tools – Overture keyword selector tool, Wordtracker
- Use Log file analysis
- Go to school on your competitors
- Brainstorm and expand (colleagues, thesaurus.com)
- Winnow overly broad & irrelevant terms & sort by popularity
- Narrow topically and geographically for better results
- Ideally integrate keyphrases into site design/architecture
- Don't forget misspellings/alternates, singulars/plurals
- Best to target 3 or 2-word phrases - UNLESS you identify unique acronyms (like darpa, javascript, or wyndham)

# SEO Best Practices – Optimum Keyphrase Length

- Keywords – Target 2-4 word keyphrases (iProspect, OneUpWeb)
- Conversion rate peaks at 4-word keyphrases (OneUpWeb – chart)
- Optimum is between 2 and 3-word keyphrases (~2.75)
  - One exception: unique corporate names = higher conversion rates
- One and two-word keyphrases account for 88% of search traffic



# Keyword Research Example: Aruba -> Aruba Hotel

## Keyword Research for "Aruba Hotel"

### Step 1

#### Keyword Selector Tool

Not sure what search terms to bid on? Enter a term related to your site and we will show you:

- Related searches that include your term
- How many times that term was searched on last month

Get suggestions for: (may take up to 30 seconds)

Note: All suggested search terms are subject to our standard editorial review process.

### Step 2

#### Keyword Selector Tool

Not sure what search terms to bid on? Enter a term related to your site and we will show you:

- Related searches that include your term
- How many times that term was searched on last month

Get suggestions for: (may take up to 30 seconds)

Note: All suggested search terms are subject to our standard editorial review process.

#### Searches done in January 2005

Count	Search Term
163894	aruba
19903	aruba hotel
10232	aruba vacation
6440	aruba weather
6237	aruba map
6200	aruba all inclusive
5206	aruba resort
4941	marriott aruba
3405	aruba fishing
3253	divi aruba

### Step 3

#### Keyword Selector Tool

Not sure what search terms to bid on? Enter a term related to your site and we will show you:

- Related searches that include your term
- How many times that term was searched on last month

Get suggestions for: (may take up to 30 seconds)

Note: All suggested search terms are subject to our standard editorial review process.

#### Searches done in January 2005

Count	Search Term
19903	aruba hotel
887	aruba all inclusive hotel
634	renaissance hotel aruba
465	marriott hotel aruba
434	wyndham hotel aruba
394	aruba hotel map
393	radisson hotel aruba
367	aruba grand hotel
259	cheap aruba hotel
244	aruba hotel review
243	hyatt hotel aruba

### Keyword Selector Tool

Not sure what search terms to bid on? Enter a term related to your site and we will show you:

- ◆ Related searches that include your term
- ◆ How many times that term was searched on last month

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#### Searches done in January 2005

##### Count Search Term

19903 aruba hotel

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394	aruba hotel map
393	radisson hotel aruba
367	aruba grand hotel
259	cheap aruba hotel
244	aruba hotel review
243	hyatt hotel aruba
212	all inclusive hotel in aruba
203	aruba hotel las vegas
197	marriott hotel in aruba
189	aruba luxury hotel
187	allegro hotel aruba



# Metrics: Clicktracks

- Visual interface
- Each link shows % of visitors who clicked
- Compare visitor groups
- ID visitors by specific criteria
- Only 28.7% of online marketers analyze their stats
- Marketers who do check their stats get 25% better conversion rates



# Bad SEO Techniques

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When choosing an SEO firm, avoid these unethical practices that don't work in the long term. Look for and avoid the following questionable techniques.

1. Link farms – dilute referred PR, not under your control
2. Hidden text (white on white, etc.)
3. Small text
4. Keyword stuffing
5. Duplicate title tags
6. Doorway pages
7. Cloaking / questionable redirects
8. Commented keywords
9. Mirror pages & sites
10. Convoluted, invalid code – template based, cookie cutter

# Good SEO Techniques

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Ask for references and example sites from your potential SEO firm. Look for the following best-practices on their site and their clients' sites.

1. High rankings
2. Keyword focused pages – theme-based relevancy
3. Plenty of text (not overly graphical)
4. Clean, fast, standards-based pages (CSS lists, headers)
5. Offers metrics to validate and track conversions / ROI
6. SEO changes and optimization are documented
7. Extensive PR campaigns – RSS, newsletters, releases
8. Linking campaigns – check for backlinks ([prsearch.net](http://prsearch.net))
9. Filled with compelling, useful content, updated regularly
10. Realistic guarantee of tasks or results

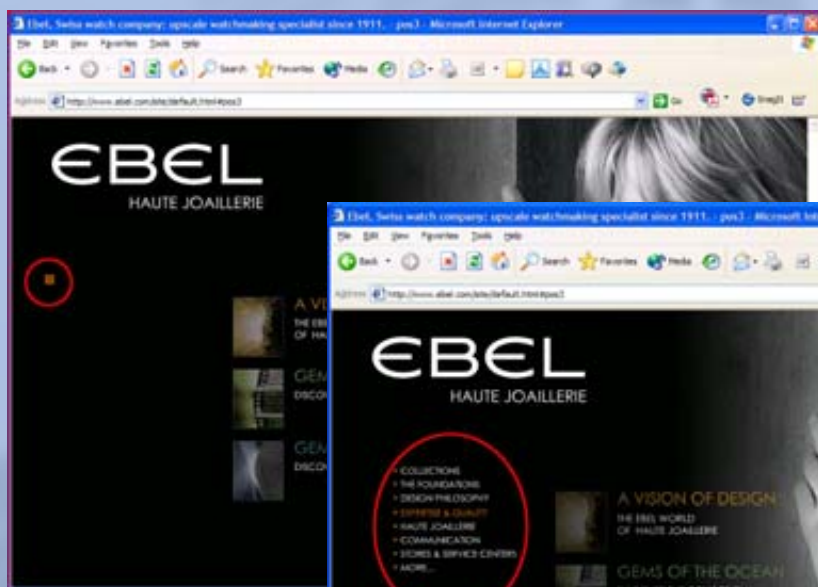
# sIFR: An SEO-friendly Alternative to Graphic Headlines

- sIFR = Scalable Inman Flash Replacement (first by Shaun Inman)
- Standards-compliant way to deliver any font to user
- Uses Flash, JavaScript, and any headline
- Embeds font in Flash SWF (Flash 6 or higher)
- Replaces headline text with Flash text automatically
- Latest version can dynamically replace any XHTML element (Mike Davidson & Mark Wubben)



# Case Study: EBEL.com

- Ebel.com – Handmade Swiss watches, pure Flash site
- Sets wonderful mood, fun
- Awful for SEO, need keys to kingdom to navigate



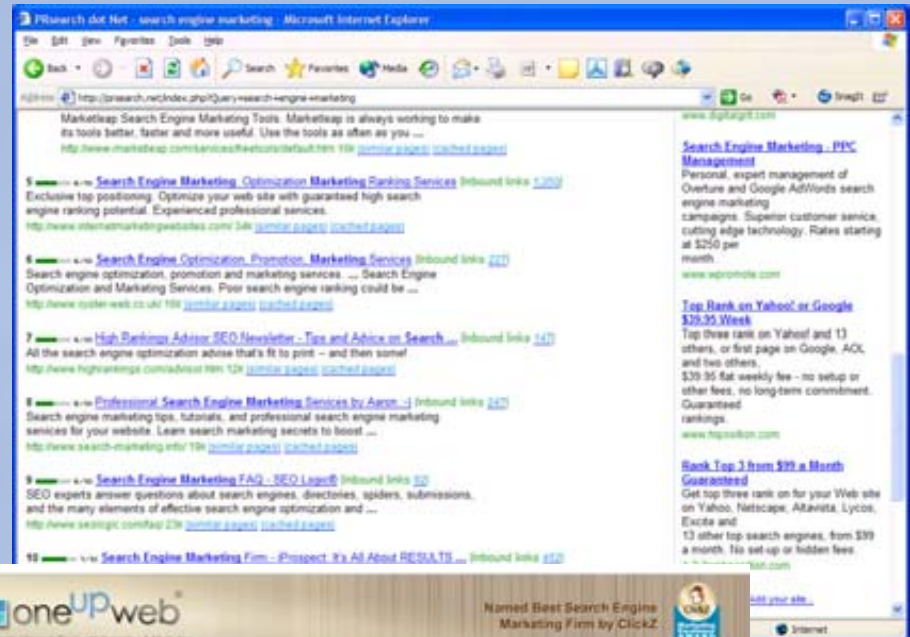
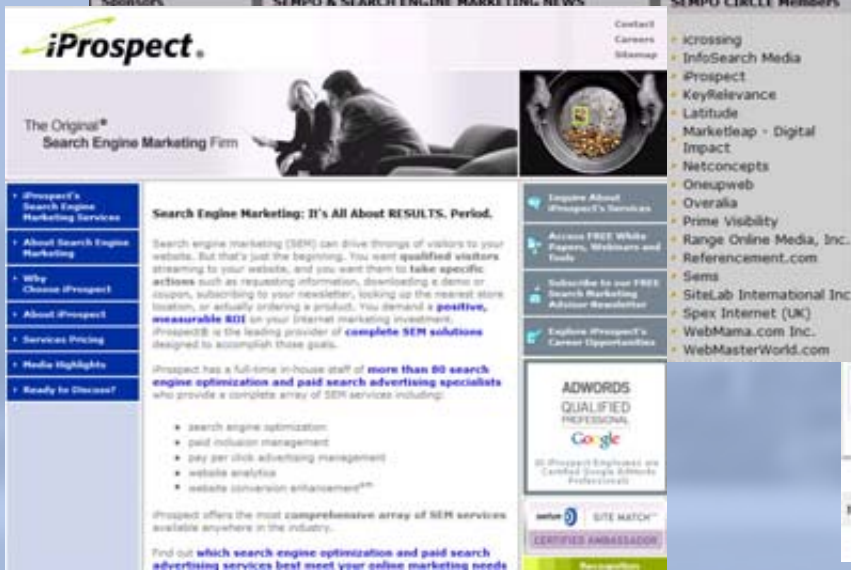
# Case Study: OneUpWeb.com/iProspect.com

- Professional SEO sites
- Credibility: impressive sites & clients
- Good SEO as you'd expect
- One Up uses Flash menus however
- Lots of great content/white papers

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# The Future of Broadband

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Technically broadband is a transmission facility with multiple channels to carry voice, data, video channels simultaneously with each channel modulated to a different frequency, or a wide band of electromagnetic frequencies.

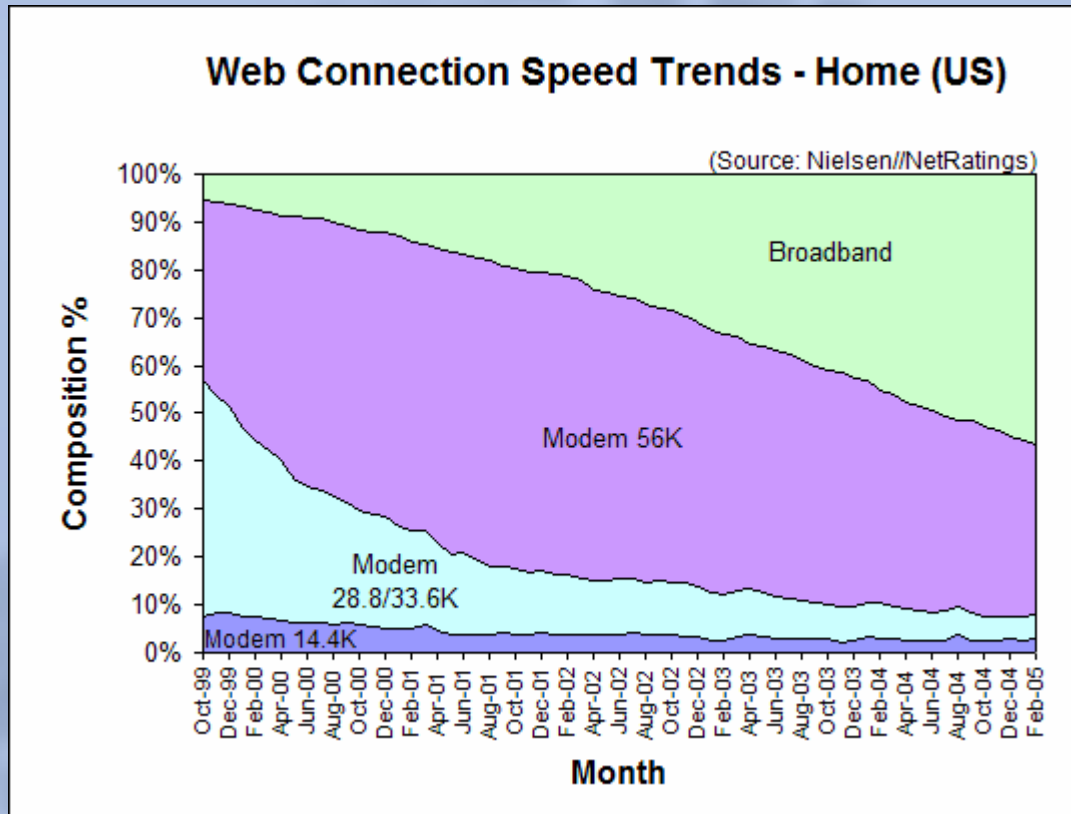
In the real world broadband is a big fat pipe for data. It can range from 128Kbps to 2-3Mbps at the low-end and higher.

Broadband improves the user experience, but does not solve the problem of slow web sites. Just like your hard drive seems to fill up as capacity increases, broadband tends to fill up with higher bandwidth applications.

If the past is any indicator of the future, the effective speed for the average web surfer will go down as web site size grows faster than bandwidth. (King 2003)

# Connection Speed Trends in the U.S.

In February 2005, 56.3% of active Internet users in the U.S. connect from home with broadband connections. Broadband is growing at a rate of about 1% a month. 81.6% have broadband at work. – The Bandwidth Report, 02/2005



The **overall** broadband penetration rate in the U.S. is now **30% of all households and 47% of online households** - Leichtman Research Group, April 1, 2005



# U.S. Broadband Penetration Trends & Predictions

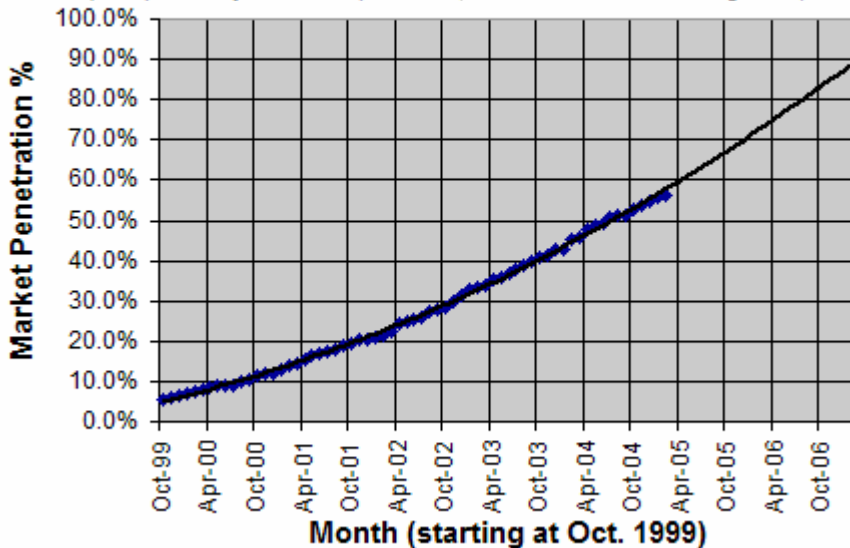
Broadband penetration in the U.S. should break 70% by December 2005 for active Internet users.

Online households lag online users by just under a year

For all households, broadband penetration should break 50% by late 2007

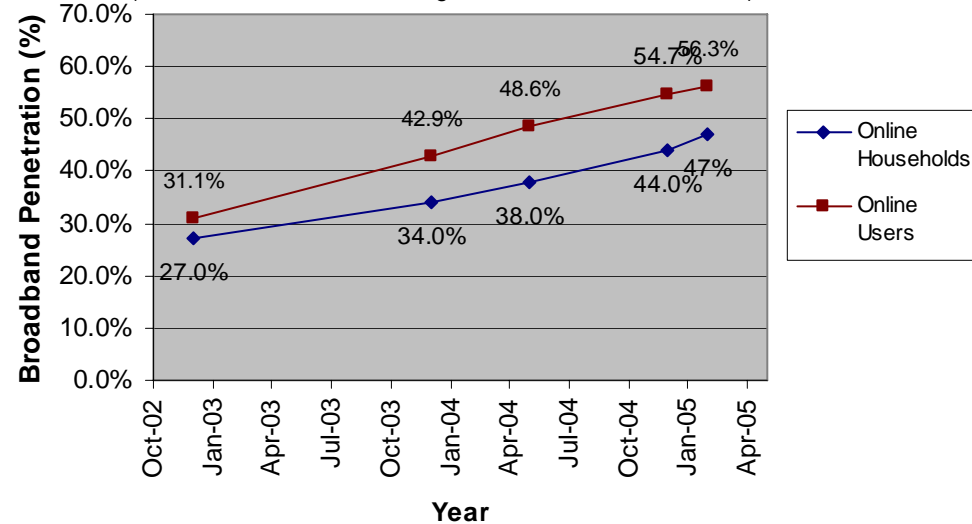
### Broadband Growth Trend - US Home Users

(Extrapolated by Web Site Optimization, LLC from Nielsen//NetRatings data)



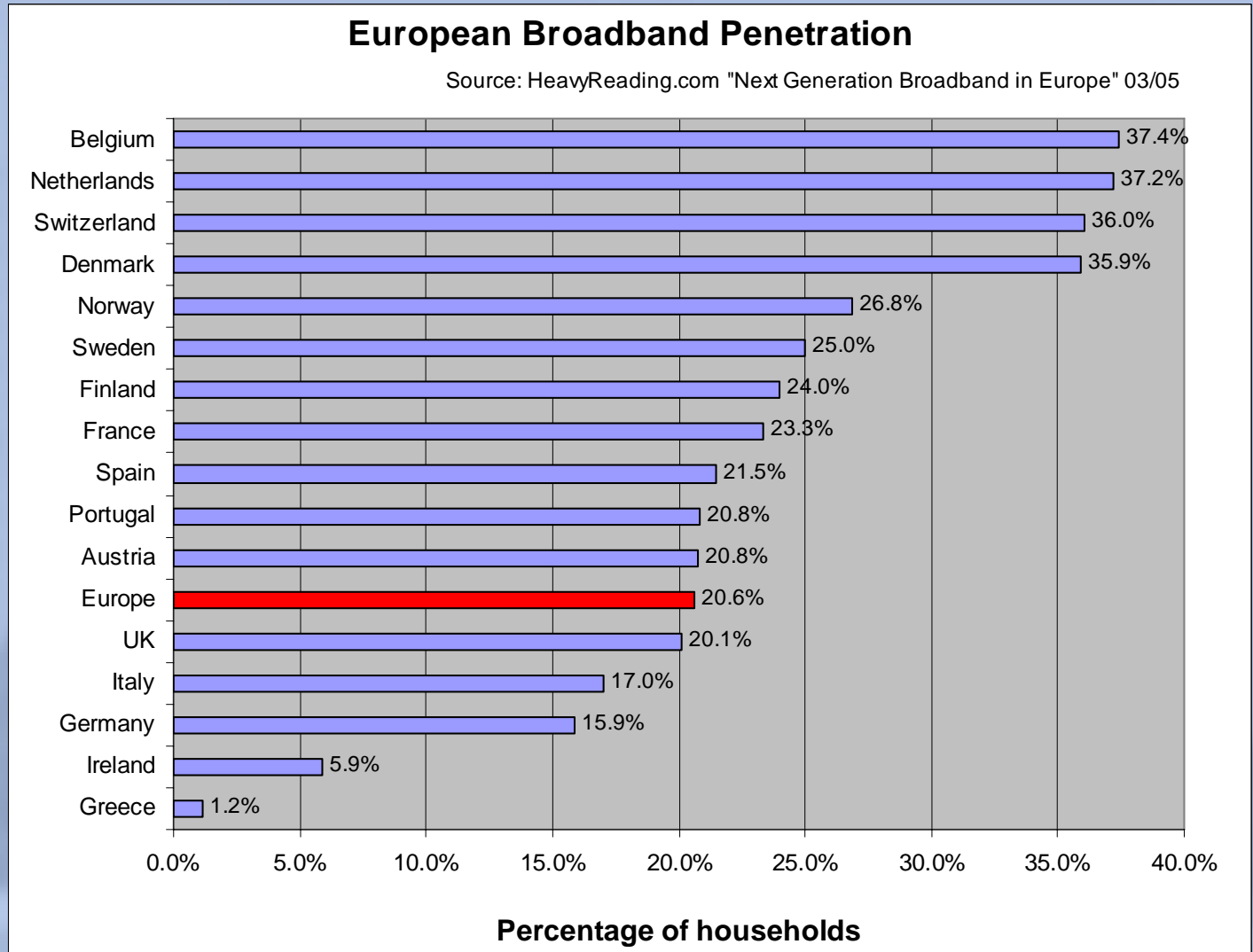
### Broadband Penetration: Online Households vs. Online Users US

(Sources: Nielsen//NetRatings and Leichtman Research)



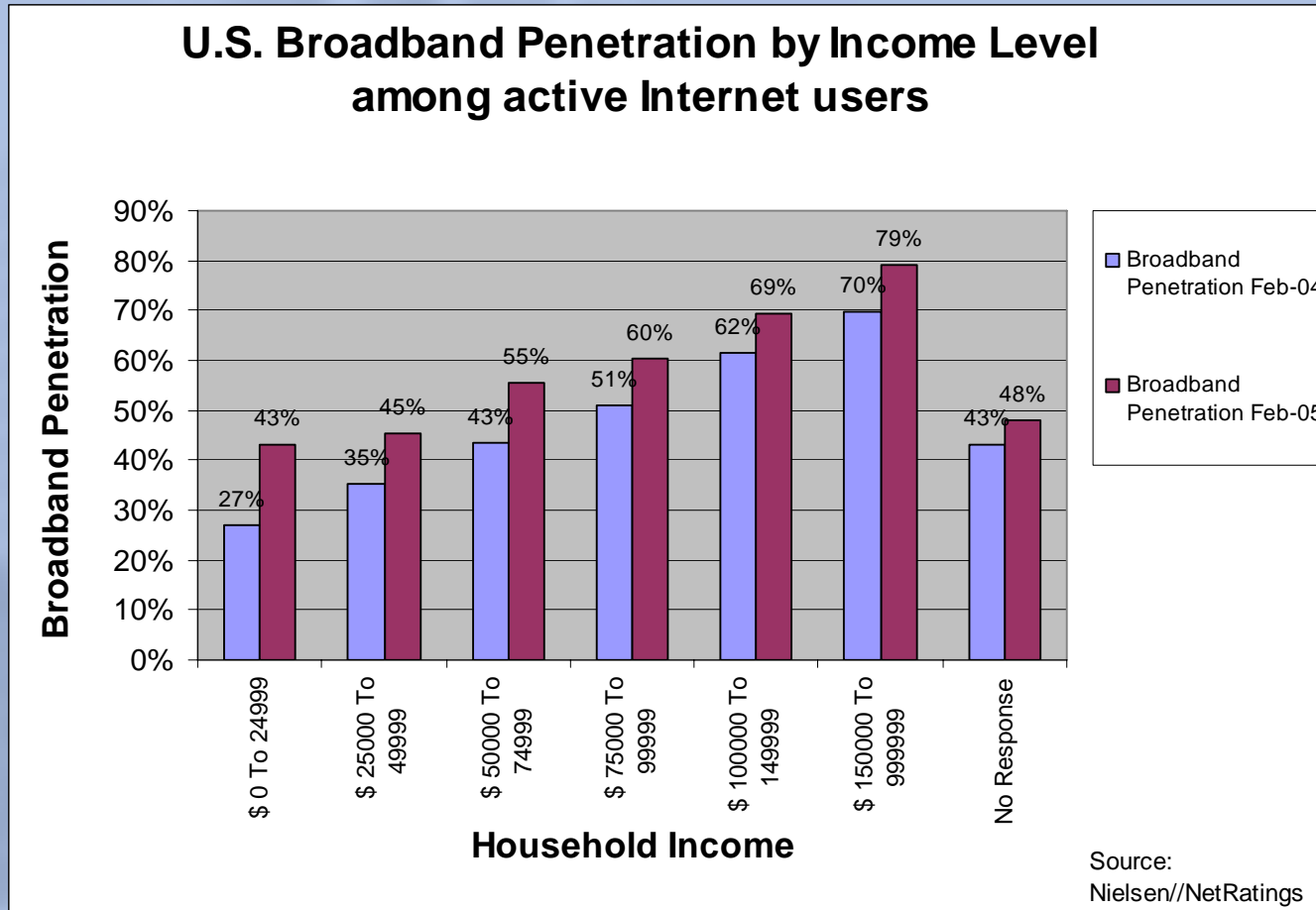
# European Broadband Penetration

Belgium, the Netherlands, & Switzerland lead European countries in broadband penetration.



# Broadband Penetration tracks Household Income

Most people that visit Aruba are well-off, averaging \$75K-100K in annual income. Most U.S. visitors have broadband at home and work.



# SEO Resources

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- *Search Engine Optimization for Dummies*
  - Peter Kent, 2004 Wiley, most recent SEO book
- *Building Your Business with Google for Dummies*
  - Brad Hill, 2004 Wiley, SEO, AdWords, AdSense
- *Speed Up Your Site: Web Site Optimization*,
  - Andrew King, 2003 New Riders, 2 chapters on SEO
- *Search Engine Visibility*
  - Shari Thurow, 2002 New Riders, good intro to SEO
- *Search Engine Positioning*
  - Fredrick Marckini, 2001 Wordware (out of print)
- *Call to Action*
  - Bryan & Jeffrey Eisenberg 2005 (May), Conversion Rate Optimization
  
- <http://SearchEngineWatch.com> – Danny Sullivan’s definitive search engine site
- <http://HighRankingsAdvisor.com> – Jill Whalen’s High Ranking Advisor newsletter
- <http://MarketingSherpa.com> – Search Marketing Metrics Guide
- <http://Wordtracker.com> – most popular keyword analysis service
- <http://Clicktracks.com> – visual traffic analysis software/service

## On a Final Note

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*I want to personally thank the  
Aruba Hotel Association, the Aruba Tourism  
Authority, and the Government of Aruba  
for inviting me down to present at this conference.*

*Andy King*

*Special thanks to: <http://www.aruba.com>*

For more information about my book and my company, see [WebSiteOptimization.com](http://WebSiteOptimization.com).  
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