Important HTML Elements

Title tag

<head>

<title>Page Title</title> </head>

Meta Description Tag

<head>

<meta name="description"</pre> content="This is an example."> </head>

★ Best Practices

- No longer than 60-80 characters
- Important keywords near the beginning
- ★ Each title should be unique
- No longer than 155 characters
- Each description should be unique
- Well written descriptions influence click-through rate

Image

Hyperlinks

Text Link

<a href="http://www.example.com/</pre> webpage.html">Keyword in Anchor Text

NoFollowed Link

<a href="http://www.example.com/</pre> webpage.html" rel="nofollow"> Keyword in Anchor Text

★ Hyperlinking Best Practices

- Limit links per page to roughly 150
- Use "nofollow" for paid links and untrusted content
- For image links, the alt tags serves as anchor text

Image Link

<img src="img/</pre> keyword.jpg" alt="keyword" width="100" height="100">

HTTP Status Codes

200 OK/Success

301 Permanent Redirect

302 Temporary Redirect

404 Not Found

410 Gone (permanently removed)

500 Server Error

503 Unavailable (retry later)

More information at http://mz.cm/HTTP-codes

Webmaster Tools

Google Webmaster Tools

https://www.google.com/webmasters/tools/home

Bing Webmaster Tools

http://www.bing.com/toolbox/webmaster/

Yandex Webmaster Tools

http://webmaster.yandex.com/

Canonicalization

Common Duplicate Homepage URLs

http://www.example.com

http://example.com

http://www.example.com/index.html

http://example.com/index.html

http://example.com/index.html&sessid=123

★ Canonicalized URL Best Practices

- http://www.example.com/
- * rel="canonical"
- link href="http://www.example.com/" rel="canonical" />

More information at http://mz.cm/canonical

URL Best Practices

Common URL Elements

http://store.example.com/category/keyword?id=123#top

- 1. Protocol
- 2. Subdomain
- 3. Root Domain
- 4. Top-Level Domain
- 5. Subfolder/Path
- 6. Page
- 7. Parameter
- 8. Named Anchor

SEO Tips for URLs

- Use descriptive keywords in URLs
- Watch for duplicate content when using multiple parameters
- When possible, place content on the same subdomain to preserve domain authority
- * Recommended: http://example.com/blog Less Ideal: http://blog.example.com

Robot Control Syntax

Robots.txt Location: http://example.com/robots.txt	★ Robots Best Practices
User-agent: googlebot Disallow: /no-google.html Sitemap: http://example.com/sitemap.xml More information at http://www.robotstxt.org/robotstxt.html	★ While robots.txt may restrict crawling, only Meta Robots and X-Robots will remove URLs from search results.
X-Robots Location: Sent in the HTTP headers	Arguments can be:
X-Robots-Tag: noindex More information at http://noarchive.net/xrobots/	Nofollow (do not follow links) Noindex (do not index) Noarchive (do not archive)
Meta Robots Location: In the html <head></head>	NoODP (Do not show Open Directory Project description)Or combined (noindex, nofollow)
<pre><meta content="ARGUMENTS" name="ROBOT NAME"/> More information at http://www.robotstxt.org/meta.html</pre>	If the robots <meta/> tag is not defined, the default is "INDEX,FOLLOW"

Sitemap Syntax

XML Sitemaps	Default Locations
<pre><?xml version="1.0" encoding="UTF-8"?> <urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"></urlset></pre>	http://www.example.com/sitemap.xml
	http://www.example.com/sitemap.xml.gz
<pre><changefreq>monthly</changefreq> <priority>0.8</priority> </pre>	http://www.example.com/sitemap.gz
<pre></pre>	
Sitemap Index File	Other Common Sitemap Types:
<pre><?xml version="1.0" encoding="UTF-8"?> <sitemapindex xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"></sitemapindex></pre>	 Mobile News Image Video

Important User-agents

For robots.txt, robots meta tags & X-Robots-Tag Googlebot (can be used as default for most Google crawlers) Googlebot-News Googlebot-News Googlebot-News Googlebot-Mobile (Various mobile device types] (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Googlebot-Mobile (Mobile Smartphones) Mozilla/5.0 (iPhone; U; CPU iPhone OS 4_1 like Mac OS X; en-us) AppleWebKit/532.9 (KHTML, like Gecko) Version/4.0.5 Mobile/8B117 Safari/6531.22.7 (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Mediapartners-Google (Mobile Adsense) or Mediapartners Mediapartners Mediapartners (Adsense) Bingbot Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm) Mediapartners Mozilla/5.0 (compatible; Baiduspider/2.0; +http://www.bing.com/bingbot.htm) Mozilla/5.0 (compatible; Baiduspider/2.0; +http://www.bing.com/botshtm) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/rogerbot-crawler)		
Hettp://www.google.com/bot.html	meta tags	User-agent in HTTP(S) requests
Googlebot-Image Googlebot-Image/1.0 Googlebot-Mobile [various mobile device types] (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Googlebot-Mobile (Mobile Smartphones) Mozilla/5.0 (iPhone; U; CPU iPhone OS 4_1 like Mac OS X; en-us) AppleWebKit/532.9 (KHTML, like Gecko) Version/4.0.5 Mobile/8B117 Safari/6531.22.7 (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Mediapartners-Google (Mobile Adsense) or Mediapartners-Google/2.1; +http://www.google.com/bot.html) Mediapartners (Adsense) Mediapartners-Google Bingbot Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm) Baiduspider Mozilla/5.0 (compatible; Baiduspider/2.0; +/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit_1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	used as default for most	
Googlebot-Mobile [various mobile device types] (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Googlebot-Mobile (Mobile Smartphones) Mozilla/5.0 (iPhone; U; CPU iPhone OS 4_1 like Mac OS X; en-us) AppleWebKit/532.9 (KHTML, like Gecko) Version/4.0.5 Mobile/8B117 Safari/6531.22.7 (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Mediapartners-Google (Mobile Adsense) or Mediapartners-Google.com/bot.html) Mediapartners (Adsense) Mediapartners-Google Bingbot Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm) Baiduspider Mozilla/5.0 (compatible; Baiduspider/2.0; +/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit_1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	Googlebot-News	Googlebot-News
Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Googlebot-Mobile (Mobile Smartphones) Mozilla/5.0 (iPhone; U; CPU iPhone OS 4_1 like Mac OS X; en-us) AppleWebkit/532.9 (KHTML, like Gecko) Version/4.0.5 Mobile/88117 Safari/6531.22.7 (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html) Mediapartners-Google (Mobile Adsense) or Mediapartners (Adsense) Mediapartners-Google/2.1; +http://www.google.com/bot.html) Mediapartners (Adsense) Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm) Baiduspider Mozilla/5.0 (compatible; Baiduspider/2.0; +/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	Googlebot-Image	Googlebot-Image/1.0
like Mac OS X; en-us) AppleWebKit/532.9 (KHTML, like Gecko) Version/4.0.5 Mobile/8B117 Safari/6531.22.7 (compatible; Googlebot-Mobile/2.1; +http://www.google.com/bot.html)	Googlebot-Mobile	Googlebot-Mobile/2.1; +http://www.
(Mobile Adsense) or Mediapartners Mediapartners-Google/2.1; +http://www. google.com/bot.html) Mediapartners (Adsense) Mediapartners-Google Bingbot Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm) Baiduspider Mozilla/5.0 (compatible; Baiduspider/2.0; +/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	_	like Mac OS X; en-us) AppleWebKit/532.9 (KHTML, like Gecko) Version/4.0.5 Mobile/8B117 Safari/6531.22.7 (compatible; Googlebot-Mobile/2.1; +http://www.google.
Bingbot Mozilla/5.0 (compatible; bingbot/2.0; +http://www.bing.com/bingbot.htm) Mozilla/5.0 (compatible; Baiduspider/2.0; +/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	(Mobile Adsense) or	Mediapartners-Google/2.1; +http://www.
+http://www.bing.com/bingbot.htm) Baiduspider Mozilla/5.0 (compatible; Baiduspider/2.0; +/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	Mediapartners (Adsense)	Mediapartners-Google
+/web/20130307230956/http://www.baidu.com/search/spider.html) Yandexbot Mozilla/5.0 (compatible; YandexBot/3.0; +http://yandex.com/bots) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	Bingbot	
+http://yandex.com/bots) FacebookExternalHit facebookexternalhit/1.1 (+http://www.facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	Baiduspider	+/web/20130307230956/http://www.
facebook.com/externalhit_uatext.php) Rogerbot Mozilla/5.0 (compatible; rogerBot/1.0; UrlCrawler; http://moz.com/help/pro/	Yandexbot	
UrlCrawler; http://moz.com/help/pro/	FacebookExternalHit	
	Rogerbot	UrlCrawler; http://moz.com/help/pro/



Important Metadata

Facebook Open Graph

<head> <meta property="og:title" content="Title Goes Here"> <meta property="og:description" content="description-goes-here"> <meta property="og:type" content="your-content-type-goes-here"> (e.g., "article") <meta property="og:url" content="http://www.your-site.com/"> <meta property="og:image" content="http://www.your-site.com/image.jpg"> <meta property="og:site_name" content="your-site-name"> <meta property="fb:admins" content="your-Facebook-page-user-ID"> </head>

More information at https://developers.facebook.com/docs/opengraph/

Twitter Cards

<head> <meta name="twitter:card" content="summary"> <meta name="twitter:url" content="http://www.example.com/your-url-goes-here/"> <meta name="twitter:title" content="Title Goes Here"> <meta name="twitter:description" content="Your description goes here."> <meta name="twitter:image" content="http://example.com/image.jpg"> </head>

More information at https://dev.twitter.com/docs/cards

Google+

Google+ will extract information from Open Graph properties, title and meta description tags, or Schema.org microdata (recommended).

<html itemscope itemtype="http://schema.org/Article"> <head> <meta itemprop="name" content="Title Goes Here"> <meta itemprop="description" content="Description Goes Here"> <meta itemprop="image" content="http://example.com/image.jpg"> </head>

More information at https://developers.google.com/+/web/snippet/

Google+ Authorship

- For author information in Google search results:
- Link your content to your Google+ profile
- Google
- Link back to your site from the 'Contributor' section of your Google+ profile

More information at

https://support.google.com/webmasters/answer/2539557

Google+ Publisher

- For businesses, brands, products and organizations:
- Link your homepage to your Google+ profile
- Google
- Link to your website from your Google+ page's profile

More information at

https://support.google.com/webmasters/answer/1708844



Targeting Multiple Languages

Declare language attribute in the HTML element

<html lang="fr">

URL Structures for Country & Language Targeting

ccTLDs (Country Level Only)	Subdomains with gTLDS
example.de	de.example.com/
Subdirectories with gTLDS	
example.com/de/	

rel="alternate" hreflang="x"

Annotate alternate language & country versions of content

HTML version in <head>

```
<link rel="alternate" hreflang="x-default" href="http://www.example.com/" /> (Specifies Default)
<link rel="alternate" hreflang="de" href="http://example.com/de/" /> (Specifies Language)
<link rel="alternate" hreflang="de-ES" href="http://example.com/de-es/" /> (Specifies Language + Region)
```

Sitemap version

```
<?xml version="1.0" encoding="UTF-8"?>
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"</pre>
 xmlns:xhtml="http://www.w3.org/1999/xhtml">
  <url>
    <loc>http://example.com/english</loc>
    <xhtml:link rel="alternate" hreflang="de" href="http://example.com/deutsch/" />
    <xhtml:link rel="alternate" hreflang="en" href="http://example.com/english/" />
  </url>
  <url>
    <loc>http://example.com/deutsch/</loc>
    <xhtml:link rel="alternate" hreflang="en" href="http://example.com/english/" />
    <xhtml:link rel="alternate" hreflang="de" href="http://www.example.com/deutsch/" />
  </url>
</urlset>
```

Pop	ular Languages	Pop	ular Regions	М
ch	Chinese	CN	China	hi
es	Spanish	US	United States	
en	English	IN	India	М
ar	Arabic	JP	Japan	ht
hi	Hindi	BR	Brazil	

Nore language codes can be found at http://en.wikipedia.org/wiki/List_of_ISO_639-1_codes

Nore region codes can be found at

http://en.wikipedia.org/wiki/ISO_3166-1_alpha-2

Mobile Web Development

Responsive Design

• Uses CSS to alter the rendering of the page on the device using media gueries

Example:

```
/* Phones */
@media (max-width: 767px) { ... }
/* Tablets to Desktops */
@media (min-width: 768px) and (max-width:
992px) { ... }
/* Large devices */
@media (min-width: 1200px) { ... }
```

Dynamic Serving via Vary HTTP Header

· Serves different HTML and CSS on the same URL, varied by user agent

```
HTTP/1.1 200 OK
Content-Type: text/html
Vary: User-Agent
Content-Length: 5710
(...rest of HTTP response headers...)
```

Separate URLs

• Identify mobile and desktop versions using rel="alternate" and rel="canonical"

```
Desktop page: http://example.com/
     <link rel="alternate" media="only screen and (max-</pre>
    width: 640px)"
     href="http://m.example.com/"/>
```

Mobile page: http://m.example.com/ <link rel="canonical" href="http://example.com/"/>