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 attribute 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
<url> <loc>http://www.example.com/</loc> <lastmod>1970-01-01</lastmod></url>	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	User-agent in HTTP(S) requests
Googlebot (can be used as default for most Google crawlers)	Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)
Googlebot-News	Googlebot-News
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	[various mobile device types] (compatible; 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/ rogerbot-crawler)



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 & Publisher			
Google+ Authorship		Google+ Publisher	
For	author information in Google search results:	businesses, brands, products and organizations:	
1	Link your content to your Google+ profile	Link your homepage to your Google+ profile	
	<a href="[profile_
url]?rel=author">Google	<a href="[profile_
url]?rel=publisher">Google	
2	Link back to your site from the 'Contributor' section of your Google+ profile	Link to your website from your Google+ page's profile	
	More information at http://mz.cm/google-author	More information at http://mz.cm/google-publisher	

Pagination

• Use rel="next" and rel="prev" in the <head> section to indicate the relationship between paginated URLs

First Page - http://example.com/article

<link rel="next" href="http://example.com/article?pg=2">

Second Page - http://example.com/article?pg=2

<link rel="prev" href="http://example.com/article"> <link rel="next" href="http://example.com/article?pg=3">

Final Page - http://example.com/article?pg=3

<link rel="prev" href="http://example.com/article?pg=2">

More information at http://mz.cm/rel-next



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>
```

Popular Languages		Popular Regions	
zh	Chinese	CN	China
es	Spanish	US	United States
en	English	IN	India
ar	Arabic	JP	Japan
hi	Hindi	BR	Brazil

More language codes can be found at

http://en.wikipedia.org/wiki/List_of_ISO_639-1_codes

More 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/"/>