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

- Less than 512px (50-70 characters)
- Important keywords near the beginning
- Each title should be unique
- Best under 155 characters
- Each description should be unique
- Well written descriptions influence click-through rate

Image

Hyperlinks

Text Link

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

NoFollowed Link

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

★ Hyperlinking Best Practices

- Preference: HTML links over **JavaScript**
- ◆ 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

https://webmaster.yandex.com/

Canonicalization

Common Duplicate Homepage URLs

https://www.example.com

https://example.com

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

https://example.com/index.html

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

- Canonicalized URL Best Practices
- Preferred URL = https://example.com/
- → Place the following in <head> section to indicate preferred URL:
- link href="https://example.com/" rel="canonical"/>

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

URL Best Practices

Common URL Elements

https://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

- Choose shorter, human-readable URLs with descriptive keywords
- Exclude dynamic parameters when possible (see Canonicalization and Pagination)
- When possible, place content on the same subdomain to preserve authority
- Recommended: https://example.com/blog Less Ideal: https://blog.example.com

Robots Exclusion Standard

Robots.txt Location: https://example.com/robots.txt
User-agent: googlebot Disallow: /example.html Sitemap: https://example.com/sitemap.xml
More information at http://www.robotstxt.org/robotstxt.html
X-Robots Location: Sent in the HTTP headers
X-Robots-Tag: noindex
More information at http://noarchive.net/xrobots/
Meta Robots Location: In the html <head></head>
<meta content="ARGUMENTS" name="ROBOT NAME"/>
More information at http://www.robotstxt.org/meta.html

Robots Best Practices

- ★ Only Meta Robots and X-Robots remove URLs from search results
- ★ Don't block CSS or JavaScript files with robots.txt

Arguments can be:

Nofollow (do not follow links) Noindex (do not index) Noarchive (do not archive) NoODP (Do not show Open Directory Project description) ...Or combined (noindex, nofollow)

If the robots <META> tag is not defined, the default is "INDEX,FOLLOW"

Important User Agents

For robots.txt, robots meta tags, and X-Robots-Tag

Googlebot (can be used as default for most Google crawlers)	Mediapartners-Google (Mobile Adsense) or Mediapartners	
Googlebot-News	Googlebot-Mobile	
Googlebot-Image	Googlebot-Video	
AdsBot-Google	Bingbot	
Baiduspider	Yandexbot	
FacebookExternalHit	Applebot	
Slurp	Twitterbot	
* (wildcard for all robots)	Rogerbot	

Sitemap Syntax

XML Sitemaps

Sitemap Index File

<sitemap>

</sitemap> <sitemap>

</sitemap> </sitemapindex>

<?xml version="1.0" encoding="UTF-8"?>

<?xml version="1.0" encoding="UTF-8"?> <urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"> <url> <loc>https://example.com/</loc> <lastmod>2015-01-01</lastmod> <changefreq>monthly</changefreq> <priority>0.9</priority> </url> </urlset>

<sitemapindex xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">

<lastmod>2015-01-01</lastmod>

Default Locations Can Be:

https://example.com/sitemap.xml

https://example.com/sitemap.xml.gz

https://example.com/sitemap.gz

Other Common Sitemap Types:

- Mobile
- News
- Image
- Video

Pagination

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

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

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

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

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

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

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

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

<loc>https://example.com/sitemap1.xml.gz</loc>

<loc>https://example.com/sitemap2.xml.gz</loc>

<lastmod>2015-01-01T18:23:17+00:00</lastmod>

Important Social Metadata

Sample Meta Tag Template: "Article"

Place this data between the <head> tags of your website

```
<!-- Open Graph data -->
<head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# article:</pre>
http://ogp.me/ns/article#">
<meta property="og:title" content="Your Title Here" />
<meta property="og:type" content="article" />
<meta property="og:url" content="https://example.com/" />
<meta property="og:image" content="https://example.com/image.jpg" />
<meta property="og:description" content="Your Description Here" />
<meta property="og:site_name" content="Your Site Name, i.e. Moz" />
<meta property="fb:app_id" content="Your FB_APP_ID" />
<!-- Twitter Card data -->
<meta name="twitter:card" content="summary">
<meta name="twitter:site" content="Your @publisher_handle">
<meta name="twitter:title" content="Your Page Title">
<meta name="twitter:description" content="Your Page description</pre>
less than 200 characters">
<meta name="twitter:creator" content="Your @author_handle">
<!-- Twitter Summary card images must be at least 120x120px -->
<meta name="twitter:image" content="https://example.com/image.jpg">
```

★ Social Metadata Best Practices

★ Default to Open Graph

Platforms that support Open Graph protocol include:

- Facebook
- Twitter
- Google+
- LinkedIn
- Pinterest

Optimal Image Sizing

- ★ Choose large images over small
- ★ Twitter:
 - Minimum 120 x 120px
 - No larger than 1MB
- ★ Facebook:
 - Minimum 200 x 200px
 - Over 1200 x 630px recommended

More information at http://mz.cm/social-meta

Rich Snippets and Structured Data

Enhance search results and help machines to understand your content

Common Vocabularies

* schema.org

- datavocabulary.org
- microformats.org

Popular Formats

- Microdata
- RDFa
- JSON-LD

Breadcrumbs | Widgets > Large Widgets

```
itemprop="itemListElement" itemscope itemtype="http://schema.org/ListItem">
   <a itemprop="item" href="https://example.com/widgets">
   <span itemprop="name">Widgets</span></a>
   <meta itemprop="position" content="1" />
> itemprop="itemListElement" itemscope itemtype="http://schema.org/ListItem">
   <a itemprop="item" href="https://example.com/widgets/large">
   <span itemprop="name">Large Widgets</span></a>
   <meta itemprop="position" content="2" />
```

Reviews | ★★★★★ Rating: 5.0 - Review by Roger Mozbot

```
<div itemscope itemtype="http://schema.org/Review">
 <div itemprop="itemReviewed" itemscope itemtype="http://schema.org/Book">
   <span itemprop="name">The Art of SEO</span> </div>
<span itemprop="reviewRating" itemscope itemtype="http://schema.org/Rating">
   <span itemprop="ratingValue">5</span>
  </span> stars
  <b>"<span itemprop="name">A good read.</span>" </b>
  <span itemprop="author">Roger Mozbot</span>
  <span itemprop="reviewBody">The Art of SEO is a good book.
</div>
```

Common Structured Data Uses

Events	Recipes	
Business Information	Media Content	
People	Contact Data	
Mobile Apps	Email Markup	

More information at http://mz.cm/rich-snippets



Targeting Multiple Languages

Declare language attribute in the HTML element

<html lang="de">

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 & region versions of content

HTML version in <head> (each version must identify all versions, including itself)

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

- Place the meta viewport tag in the <head> of the document <meta name="viewport" content="width=device-width,</pre> initial-scale=1">
- Uses CSS to alter the rendering of the page on the device using media queries

```
<link rel="stylesheet" media="(min-width: 700px)"</pre>
href="min-700px.css">
<style>
  @media (min-width:500px) and (max-width:600px)
  {h1{color:#555}}
</style>
```

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: 3495
(...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="https://m.example.com/"/>
Mobile page: http://m.example.com/
```

<link rel="canonical" href="https://example.com/"/>