

OIM3690 - Web Technologies



Publishing Your Website

Process of Publishing a Static Website

1. Create pages locally
 - i. Create *.html* files, *images*, *styles*, *scripts* folders
 - ii. Test and validate pages to ensure that they render correctly.
2. Select a web hosting service.
3. Register a domain name.
4. Transfer and maintain pages to the web hosting service.
5. Search engine optimization (SEO).

Prepare Your Web Pages

Test and Validate Pages

- Use [HTML validator](#) and [CSS validator](#)
- Test the website with different browsers
 - Chrome, Firefox, Edge, Safari
 - Other browsers
- Remove or correct any broken links found during testing.
 - [Link Checker](#) (after the website is published)

Improve Website Performance

- Code your website for quality and speed
- Optimize images, such as by compressing them and reducing their file size.
- Make the page simple and clean, with a clear and easy-to-use design.
- Advanced approaches:
 - Load JavaScript asynchronously to improve page loading times.
 - Consider using a content delivery network (CDN)
 - Use caching to reduce server load and improve response times
 - Minify and compress code
 - Limit the number of HTTP requests
 - Monitor website performance using analytics tools like Google Analytics

Read More about Website Performance

- [Web Performance 101](#)
- [web.dev - Fast load times](#)
- [Yahoo - Best Practices for Speeding Up Your Web Site](#)

Add Metadata in `<head>`

- Use appropriate `<title>` for each page
- Use `<meta>` elements to provide additional information about the webpage.
 - The `name` and `content` attributes:
 - `name` specifies the type of meta element.
 - `content` specifies the actual meta content.
 - Many types of `<meta>` elements for SEO and other purposes.
- Visit the homepage of your favorite website, view page source or inspect
 - what `<meta>` elements do you find?

Common `<meta>` elements

- `description` :
 - A short description of the page
 - `<meta name="description" content="...">`
 - Google your favorite website, then read the search result
- `keywords` :
 - A comma delimited list of search terms
 - `<meta name="keywords" content="...">`
- `author`
 - The author of the page
 - `<meta name="author" content="...">`

<meta> for Social Networking Sites

- **Open Graph Data**

- A metadata protocol to provide richer metadata for website when shared on social media platforms.
- Example: `<meta property="og:image" content="..."`
- Read more about [the Open Graph protocol](#)

- **Twitter Cards**

- They allow you to attach rich photos, videos, and media experiences to tweets, helping to drive traffic to your website.
- Read more about [Optimizing Tweets with Cards](#)

Select a Web Hosting Service

Evaluate Web Hosting Services

- Price
- Storage and transaction limits
- Technical features
 - Server uptime, backup and restore options, security measures, ...
- E-Commerce features
 - SSL certificates, shopping carts, payment processing options, ...
- Customer service features
- Reliability

Web Hosting Providers

- Some web hosting providers:
 - [Godaddy](#)
 - [Bluehost](#)
 - [HostGator](#)
- Cheap (or **free**) **cloud** alternatives for small websites
 - Amazon Web Services (AWS)
 - Google Cloud Platform
 - DigitalOcean
- [GitHub Pages](#) (*We will be using this for project.*)

Register Domain Name

- Web hosting service may bundle domain name registration.
 - Recommended if you have paid for web hosting.
- Check your desired names on domain registrars
 - For best recognition, aim for `.com` or `.org`
 - Other top-level domains (TLD):
 - `.us` (located in the U.S.)
 - `.co` (Columbia, but open to public and seems like `.com`)
 - `.info`, `.me`, `.name` (good for personal website)
- Domain privacy

WHOIS babson.edu

Domain Name: BABSON.EDU

Registrant:

Babson College
Horn Computer Center
Babson Park, MA 02457
USA

Administrative Contact:

Babson Dns
Babson College
Horn Computer Center
Babson Park, MA 02457
USA
+1.7812396483
dns@babson.edu

Technical Contact:

Domain Admin
Babson College
Horn Computer Center
Babson Park, MA 02457
USA
+1.7812396483
dns@babson.edu

Name Servers:

NS1.DNSMADEEASY.COM
NS4.DNSMADEEASY.COM
NS3.DNSMADEEASY.COM
NS2.DNSMADEEASY.COM
NS0.DNSMADEEASY.COM

Domain record activated: 07-Oct-1992

Domain record last updated: 26-Sep-2022

Domain expires: 31-Jul-2023

Transfer files

- Use FTP client to upload files
 - many web hosting website also provide web-based file transfer

Search Engine Optimization (SEO)

- Google's Search Engine Optimization [Starter Guide](#)
- Lynda course - [Danny Sullivan on SEO](#)
- YouTube: [SEO For Beginners](#)

SEO: Keywords

- Keywords are those words/phrases that
 - describe your web site
 - users type in to search the web
 - your competitors are using
- You can
 - use keywords in internal links
 - use keywords in `alt` attribute tag
 - place keywords in `<h>` tags
 - use keywords multiple times in a page

Questions?

