

SETTING UP A WEBSITE/WEB APP: STUFF TO WORRY ABOUT

Register domain name
Hide from search engines
Robots.txt
User-agent: *
Disallow: /

Linux vs windows
CPanel
Server side programming
CMS

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HOSTING YOUR WEBSITE

- Some hosts require a domain
- Private hosting (GoDaddy, Siteground, etc)
- Free/nearly free hosting options
 - Tufts hosted server
 - GitHub pages
 - 000webhost.com
 - Amazon Web Services

UI/UX AND USABILITY

- A web site/app should be designed for the user, not the developer
- Three criteria for usability:
- Easy to figure out the first time
- Easy to remember and use on subsequent visits
- User can achieve their goals
- $\hfill \blacksquare$ Always think about what the user wants- i.e., solve their problem

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BEST AND WORST WEBSITES

- https://www.lingscars.com/
- http://www.mikiyakobayashi.com/

SEO – SEARCH ENGINE OPTIMIZATION

- If you build it, they will come NOT
- Your obligation as a web programmer
 - Best practices
 - Mobile friendly
 - Use interesting effects to engage users

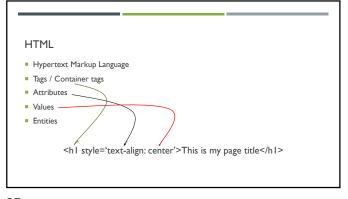
23 24

CYBER-SECURITY

- Need to secure a website from cyber-attacks
- This has to be maintained ongoingly
- Sometimes a site is hacked
- to steal information/users
- to redirect a user to another site
- just to be malicious
- No site is exempt from being a target
- CMS sites or sites with open source software are particularly vulnerable

TYPES OF ATTACKS

- SQL Injections- alters the database
- $\,\blacksquare\,$ Cross-site Scripting (XSS) malicious scripts are injected into the site
- Credential Brute Force Attacks
- Website Malware Infections & Attacks
- DoS/DDoS Attacks (Distributed Denial of Service) fake traffic bogs down a site



ENTITIES

Describe a character

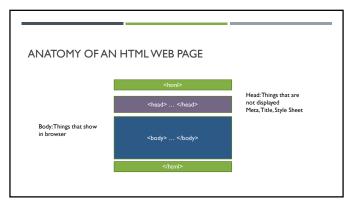
Start with & End with;

©

®

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CONTAINER TAGS Best practice for every tag to indicate an end tag Some tags are already container tags | <h|> ... </h|> Add a slash to a non-container tag indicate that there is no other end tag |
|
|
|
|
|
| >



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FILE NAME FOR THE WEB PAGE

Extension is .html

Name the file index.html or default.html if it is the "home" page

The home page is selected automatically if no file is specified in the URL

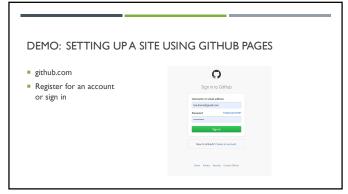
www.mysite.com

Any other name can be used, but will need to be specified in the domain.

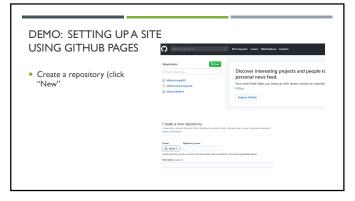
www.mysite.com/help.html

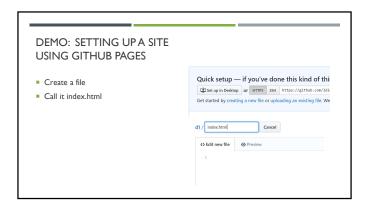
31 32

VIEWING THE PAGE IN A BROWSER Doption I: View the page locally in a browser Create the file. Save with .html extension Open a browser and put the full url to the file in the url bar (it will start with file:// - or easier, This is for LOCALVIEWING ONLY Option 2: View the page on the web from anywhere Upload the file to a server on the web – note the web address Open a browser and enter the web address Include the file name in the url if needed



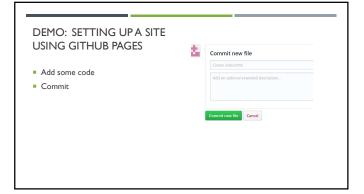
33 34

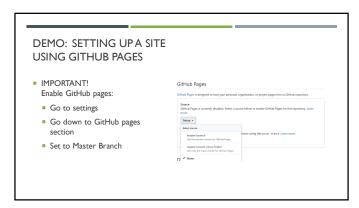




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DEMO: SETTING UP A SITE USING GITHUB PAGES

- See your Page!
- In a new tab in the URL type in the address of the page
- <user-name>.github.io/<repo-name>

DEMO – CREATE A SITE USING 000WEBHOST Sign up / log in to www.000webhost.com Hover over your website and click on "Manage Website" Option I: Click on "Tools" then "File Manager" to be able to upload files Most hosts offer a file manager Not efficient for several files. Better to use an FTP (File Transfer Protocol) app.

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DEMO – CREATE A SITE USING 000WEBHOST Click on "Website Settings" then "General" to see the FTP Settings for your site Choose an FTP app I like FileZilla and WS-FTP Go to your FTP app and set up the site Connect to the host Go to public_html (not universal, but common) Upload your files. Note the URL for your site and enter it into the browser to display the page

BASIC TAGS

HTML ignores whitespace. You have to insert it explicitly.

Paragraph (double line break)

Line Break
 (not a container tag)

 <div> (single line break – a container tag)

* whosp; (a space)

Headings <h!> ... <h6>

Horizontal rule <hr> > (not a container tag)

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TEXT FORMATTING

- or bold
- italic
- <SUP>, <SUB> superscript, subscript
- Tags can be nested text1 text1 is bold text1text2 text3text4 text1 will be bold text2 will be bold and italic text3 will be bold text 4 will be normal

HYPERLINKS

- Text link
-
- Link within a file
 -
-
-
- opens linked item in new window

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EMAIL AND FILE LINKS

- Email link
-
- Link to a file set href to the file name
- can be used for downloads
- file must be uploaded to the server
- Where to find files:
- If a file in same folder as web page: file.xxx
- If file is in child folder of web page: folder_name/file.xxx



IMAGES

-
- Can auto size may deter performance
- Attributes
 - alt, title
 - height, width
- align
- Formats: jpg vs png vs WebP
- Finding images
 - unsplash.com Stock photos
 - Creative commonsAttribution



LISTS

Unordered (bulleted)
Ordered (numbered)
List item You can create an indent level by creating another list inside of an Ist inside o

META TAGS

Metadata is "data about the data"

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Name

Description Keywords

Author Viewport

Content

Redirect

Metadirect

Metadi