Web development

# Tools:

Chrome browser: CDT (developer tool)

Create a git hub account:

Git book google

Create a repository

Settings: automatic page generation, launch, make any change you like

<http://yourname.github.com/projectname>

branch master:

gh-pages branch: this is branch that is published

download the page to local,

git clone <https://..../projectname>

so a project name is created under current folder, this only down loads branch master

git status

tells you which branch you are at

git checkout gh-pages

git status

ls to see all files

mkdir site

any eidtor

create index.html

hello world

git status (at project root) to see the new site

git add .

git status

staged

git commit –m “My first page.”

git status

local banch, is ahead of origin/gh-pages , need to push

git push

user name and password

gh-pages -> gh-pages

check it from github

settings on git hub https:../site/

index.html is default if you use different name, type it

make a change to index.html

git status

modified page

git add site/index.html

git status

stage

git commit –m “small addition to page content”

git status

git push

you can push more commits

check it online

git pull

to get other changes, it is multiuser environment

Borwser-sync

Browser-sync start –server –directory – files “\*”

Will host your files at localhost:3000

# Html tag

Opening and closing tag, or element

<p></p>

Some time it does not have closing tag <hr>

Attribute and attribute value

<p id=”myID”></p>, no duplicate id

No space between tag and brackets, <p, </p>

Value in quotes, single or double

Value contains quotes , so using onlclick=“alert(’hi’)”

Old html version, self closing tag <p/>, not in the new

Examples: structure-only-before.html

# Basic html document structure

<!DOCTYPE html>

In new html5, no need now

<html>

<head>

<meta charset=”utf-8”> !not neccessary

<title>thuis is required</title>

</head>

<body>

<p><span></span></p>

</body>

</html>

W3c validator

Nesting, must enclose

Rendered sequentially

Examples : doc-structure-before.html

# Html comments

<!-- whatever -->

# Html content models

Nesting rules, old , not html5

|  |  |
| --- | --- |
| Block –level elements | In line elements |
| Render begin on a new line (default) | Render on the same line (default) |
| May contain inline or other b level elements | May only contain other inline elements |
| Roughly = Flow content in html5 | Roughly Phrasing Content in html5 |
| Div | span |

Html5 with more complex categories

<div>Div1<div>

<div>Div2<div> this pushes inline to next line

<span>span1<span> this starts from new line even it is inline

<div>Div 3dddd<span>same line</span>ddd<span>continue</span></div>

How this document is formatted does not change rendered results

Don not add div inside span

7 type contents in html

Example: div-and-span.html

# Heading and new html5 sematic elements

Semantic means: elements telling sth about content

Search engine optimization: SEO

Headings : <h1></h1> …. <h7></h7>, the lower ,the bigger, the most important

Structural not styling

Example: headings.html

Html5:

<header>: logo, navigation <nav>

<h1>

<section>

<article></article>

</section>

<section>

<article></article>

</section>

<aside>

</aside>

<footer>

</footer>

All block level

Example: semantic-elements.html

# Html lists

grouping

<div>

Just lines will not be seen as lists, tabs, space, new lines will not be honoured, spaces will be treated only as one space

</div>

<ul>

<li></li>

<li><ul><li></li></ul></li> embedded lists

</ul>

For unordered list

<ol><li></li></ol> ordered list

Example: unordered-listes-before.html, ordered-lists-after.html

# Html character entity references:

Differentiate content from tags, characters not on keyboard

Escape :

<,>,&,

&lt; &gt; &amp;

Donot be afraid to be < then a 100% success & > more

Copy right : &copy;

Words to be wrapped together, none break space: &nbsp;…&nbsp

Spaces: do not use &nbsp; but span and margin

Quote “” could be interperated by encodings : &quote;

Example: html-entities-before.html

# Links

## Internal links

Same site

<a href=”relative or absolute url” title=”this is going to be seen when page is served”>mmm</a>

Same directory.html

Inline for mmm

Example: links-internal.html

## Div linking

<a href=”relative or absolute url” title=”this is going to be seen when page is served”><div></div></a> this will be rendered on new line, and whole block is clickable

<a> is both inline and clock

## External links

Link to another site

<a href=”http://www.facebook.com”

Target =”\_blank”

title=”this is going to be seen when page is served”>mmm</a>

target attribute, it will open in a new tab, original page still in, not replacing

Example: links-external.html, same-directory.html

## fragment identifier

<a href=”#section1”>mmm</a>

<section id=”section1”></..>

<a name=”section6”>mmm</a>

<section id=”section6”></..>

The fragment is in url

Useful in spa, single page application,

Example: links-same-page.html

# Displaying images

<img src=’url no different as href’ width=’400’ height=’’ alt=’sreen reader helper’></img>

It is inline element

Width and height to reserve the space when image is being loaded, otherwise

Ctrl+shift-I to open cdt, network, slowest, text will jump around, also if page not aviable, visual space will be different, layout will break

Example : images.html