Webder with The Odin Project Christian James Welly 2 May 2019 2 (55 (HTULOSSIS beginner HTML tub) Tags, Attributes and Elements -> Document type declaration - lots browser know which flavor of HTML you're using. IMPORTANT. if not present, browsers assume you know what's U.D <100CTYPE heme> -> Opening tags: Everything enclosed is a HTML document (hemb) (body) -> Main content that will affect to in the browser This is my first web page window is within these tass (/kody) -Note: S/HML>-Some tags Like Cbr> is self closing. (br 1> is Attributes: Extra bits or inso for tags. a remant of XHTML so e.g.: L'ag attribute = "value"> Margarine </tag> don't confuse yourself. -Subtessentral but good to bove. Elements: Bits that make Up the web page. Everythig between (& inclusive of) <body) and (/body) tags is the body element. e.g.: "(title) Rumple (/title)" is a title element Title Chead tag appears before (body) tag. (Find) contains into about the page. (Little) Clement will appear on a tab or title boar or the window. Paragraphs · The browser doesn't distinguish tack on diss lines. That is, there -> "Hi there" in the · Use (P) tag for paragraphs! (.(em) for emphasis, and (strong) for strong importance. in general bold italics · (bt) for line breaks. Note: Shouldn't be used if two blocks of text are indended to be separate from one anoter (consider up) top inglead) Headings If you have documents with genuine headings, then consider using: h1, h2, h3, h4,h5, hi is the almighty emperor or headings his is the lowest pled. Note: h1 tag is only tised once! h2 to h6 can be used as often, but should always be used in order, as interided. e.g. hy is a sub-nooding or h3, which is a sub-heading or h2

Ving STC="hetp://www.hemldog.com/badge1.gis"
Tells us where to find the image Similar to
a tog; can be absolute or relative

recessary bas it excluded, browser calculate size as the ima loads, instead or whon page loads: layout or document may jump arnd!

Alternative description.
Accessibility consideration,
Providing in 60 for pp.

e.g visually imperred.

(TREG)

. Use math also to compress a distort image slightly.
Lower compression, higher file size, but cheara!

· Typically used for images such as photo graphs (GIF)

· Can have \$ 256 abrs, but · they maintain colors of original image. I no. or colors, I file size.

· Allows any fixed to be transported t

· Used for imagios with solid colors, such as icons or logos

(PNG)

Replicates colors, meh like a GIF, altho it allows 1016 colors & alpha transferent (area could be 50% transferent)

images in more complex designs BUT not fully supported by some older

Try to strike belonce betw ima audity and size!

WHILE 2

Example code

. (table) element defines the table.

(tr) element defines a table row

(td) element define a deta cell.

ded it must be enclosed in (tr) tagsi

e. 9. (table> (td> Row 1, Cell 1 (led) >pow 1, cell 2 (140> < 2, Cell 1 </ d> ctr> (1d>POW2, 0e/2

Used up collect data inputted by a user. Can be used as an interface for a (Tend to be used in conjuction with a progretnming language web application to process in FO)

Chable

Basic methods:

form.

Ly Decines the form, and if you are subitting, an action attribute is needed to tell the form where its contents will be sent to.

La Method attribute tells how the data in it is going to be sont. Possible values: Post:

get:

is default

Lo Latiches GorminFO onto a web addtess

45 Used for Shorter chuncks of non-sensitive information

15 invisibly sends the form's information

Lo Used for Lorthier,

more secure

Sumissions

eg:

(Form action = "Script. pho" method = "Pose")

</Form>

: doddy of the form world Lol INPUL

L) Simply (input) was La value attribute

to set initial texk in textbox

Dassword L> Similar to textox, but hidden characters + YPed

Checkbox

Ly Can be toppled.

Lo Cata have choeted attribute:

Makes Initial State swithed on

Basic Inputs: (input type: "x") rodio

Essimilar to checkbox

to can have chedred attribute

Sulomit Ly when selected,

a self closing 1

will subt the form. L) control text that appear with value attribute

Ly Cin put type = "Submit" value = "Is abutton"

textaren

Anticipated number of rows Latge, multi-line textbox. can be defined with rows and colle attribute. Can

e.g. < text area rous="5" cols="20"> - A big load or text (/texcarea)

use CSS nevel.

Forms the initial value!

Select

Select tog works with option tag to make drop-down select boxes

An (option) tag can also have a selected attribute, to Start one with one or the items attendy selected (doesn't work in firefox tha)

If form submitted: the value is either: benchosed in the tag E LISPECIFIED by Value attribute

0.0 (Select > (Option) Opt 1 / Opeion> < oprior value " second oprior" > DOE 2 (102401) <1 select>

without the name attribute, the form-handling script Will ignore ell or the tags.

<input type = "text" name = "text king sponge">

Wrapping UP

```
HTML Dog CSS Beginner tutorial
 CSS, or Cascading Style Sheets, is a way to Present HTML.
  HTML is meaning or content, CSS is presentation
   thas a correct of: "property: value"
 Applying CSS
  in line ): (P style = color: red "> text 4p>
    But not good! Avoid inline!! HTML should be stand-alone, presentation-free
      internal 3: In HTML file, inside the head element, style lags surround all of the
          (bad)
                    Same Styles.
      (S+41e>
               COLOT: red;
      (/style>
      ((head>
    Also try to avoid!!
external): File sould as "...... css", Linked to HITML
   g eg. file named "style.cse", can be linked like this:
               Clink rel="styleshook" hree="style.cgs">
          (head>
                                                   : HTML has tags, CSS has soledors
  Selectors, properties, Values
 HTML selectors: names of HTML togs; used to change the style of a specific type of element
                                            2 note: value given to eroperty following a colon (NOT
                              ) selector
  e.g.
                                                      equals). Semi-colons to separate Americas
  body 1
        fore- 5: 7/2: 19 px;
        color : havy ;
 Common Property-specific drifts: all the time all the time all the time and the time and the time are all the time. It specifies size for non-zoomed browser, but can still auto-increase are all the time.
                                                                                            or auto-decrease
 Ly cm: "Sont-size: Zern; magns two times outrent Fork size
 Ly pt: points, typically in printed media
```

13 %

HERLY S

```
3 May 2019
   '010rs
  CSS Brings 16,777, 216 COIDTS: It can take 3 forms: 10 name, 2 RGB value, or
   (3) a hex code.
  Followin & values & Araduce same result:
                         . # 55 0000
   · rgb(255,0,0)
                        . # 600
   .196(100%,0%,0%)
   transparent is also a valid value for Predefined color names
 Hex number prefixed with heigh character (#):
             3 or 6 digits.
   Ly 3-digit version is easier to decipher (corresponds to PGZ)
  (Color and background-color)
   American english! NOT colour
                            h1 {
                              color: #fec;
   e.8: body 1
          font-512e: 190x;
                              backgraind-colq: #009;
           color: ravy;
                            Y
             : User's browser has to be able to sind the fort you specify. Hasto be on
  ext
                                                            "times new roman".
                THEIR COMDUTET.
· Can specie y using commas: fort family: arral, he luetica,
                                 Looke through avial first, for fort with spacing, use ques.
                                     then helverica
font-size); sats the cont size. Be careful It makes more sense to use headings
Fort-weight: Bold or not. Some values: bold, bolder, 100, 400 (some as normal), 700 (some as bold
font-Style 3. Italies or new.
faxt decoration). Does text have line running around lin it? Values: . Quarting
                                                               · Line - through
                                              Cafitalize -> first letter or word becomes uppercase
text-transform}: changes the case. values:
                                              uppercase
                                              lowercase
(Tetter-spacing/word-specing); spacing between. Value can be leasth or normal.
             : sets height in an element (for lines) without adjusting size of font.
               Values: notaber (multiple of , length, percentage, or normal.

Alia Love and provide of size)
 line height?
 fext-alien): Alies text inside element to let, light, center or justicy.
 text-indent): Indent the first line of a paragraph, to a given length or of
```

them be

Margins and Radding

Margin: Space Outside something Podding: Space Inside something

consider:

h2 {

7

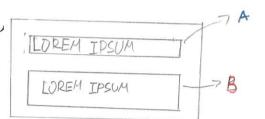
background-color: #ccc;

margin: 2 px;
padding: y px;

=|>

Is larger than best best space outside something is larger, so everything oets 'euchad', I think.

This code leaves x-pixel with space around secondary header, and header itself is fat from the 400 y-Pixel width padding



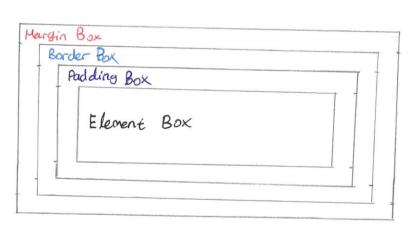
than content B. In fact, content A may adding have a padding or OPE.

(No space inside something). Notice how in B, the left-indepted text gets aushaby approx the same arts.

four sides or an element can be set individually by using:

- margin-top, margin-right, margin-bottom, morgin-right
- padding-too, padding-right, padding-bottom, padding-lett

The Box Model:



Middle: content area (e.g.) image surrounding it is padding, which is surrounded by border, and finally surrounded by margin.

Borders

The border-style property. Values can be solid, dotted, dashed, double, grown tidge, insec, outset.







```
border-width to set width or border.
See also: border-right-width, border-left-width, border-top-width, barder-loot som-width
border-color to set color
e 9.
h2 1
    border-style; dashed;
                                  These overrides
    border - widen: 3 Pot;
    border-left-width: 10 Px;
                                       border-width!
                                       It these are eat above,
    border - righ-widen: 10 Px;
                                       reverse increas ( porder width
    botder-color-red; red;
                                        overrides)
r
```

Wrapping UP

(!- Insert notes here -->

HTML Dog CSS Intermediate Tutorial

contents: Class & ID selectors, Growing & Nesting, Pseudoclasses, Shorthand properties, Background limages, Specificity, Display, Pseudo elements, Page laya

Class and ID selectors In the beginner tut, we only looked at HTML selectors (refresenting tags) We can define selectors in the form class and ID selectors. Benefit: Select Same HTML element, but present it differently depending on class or

to identify more their one element one element

ID

Preceded by hash

Character ("#")

Preceded by

CSS may Look Like this: # top 1 Padding: 20Px;

HTML: <di>id="top"> < h1> Chocolate curry (/h1>

background-color: #ccc;

< P class "intro"> This is my recipe < IP > < P class="intro"> mmm looks good

Full Stop (# 11)

intro 1 color: red; Font-weight: bold;

(/div>

(A)

Can apply a selector to specific HTML element: State HTML selector first!

e.g .:

P. introl 11 south

Paragraph elements that have the class "intro"

1

Grouping and Nesting

: To simplify your code!

Grouping): Same properties to selectors without howing to repeat

for

421 Color: red; . this Class (color: red; . that Class f color: red;

equivalent

60

apply commas! this Class that Class (color: red;

AbsTrAction is a haghlass have not an ID selector

```
0.9
# top (
   background - color: *ccc;
   Padding: 1em;
# top h1 (
 color. # 550)
# LOP P ( red)
  Fort-Weight boid
```

Nesting 3: To specify

```
By separating selectors with spaces, we are sayino:
"h1 imside ID top is colour #550"
"p inside ID top is red and bold"
 This is suitable for code @ or the Chocolate Curry in
 Page 9 (prev page), but you can temove dass="intro"
```

properties to selectors within owner selectors

(can got complicated so may take practice)

```
Pseudo
        classes
```

Bolted on to selectors to specicy a state or relation to selectors. [I think these are notice to CSS i.e. not sate-defined] form: Selector: Pseudo_class ! Simply add a colon in between Sclestor Property. Value;

inks -) targets unvisited LINKS a: Line color: blue; -> -targete visitad a: visited Links color: purple;

This cas apply colors to all line in a page est depending on whether user has visited that page or not.

Pyranic Pseudo Classes.

Also commonly used for Links. To apply stules when something toppens to something

active: Something activated by user, such as when a link is clicked on.

hover: Something passed over by an input from user, such as when aursor moves over a link

focus: Something gains rocus, that is when it is selected by, or 15 ready for kelyboard input May often used on form elements but can be used for links, consider those users not using mouse, Cg. Keyboard on 19

First Children

Only if it is the very first descendant or an element. Targets something

Targets e.g. this only (body) (P) I'm the first child or body (IP) <P> (Inferior) second child</P>

p: first-child { Font-weight: bold; FORE-Size: 40 Px;

</body>

Note: CSS3 delivered a whole new Set of Pseudo classes: last-child target, first-of-tope

Some properties allow a string of values, secarated by spaces

```
Padding
Margins and
```

margin amal garates margin-top, margin-right, margin-bottomand margin-lest

Form: Property: top right bottom left; At the order is inst!

Redl Brother used

sodil CLOCKWISE if you think abt it actually

P margin-Lop: 1 px; margin-right: Spx; margin-bottom: 10 PX margin-lead: 20Px;

PL margin: IPX 5PX 10PX

TT for TOP & BOHOM Mnenomic: The

Pudding can be used in exactly the same way.

Also, you can state two values => Padding: 1em loem

top & botton fight & left

R For Right & left

border-width can be used the some way as fadding and margin

Another way:

P1 border - width: 1 px; border - color: red; border - stole: soridi border : 1px red solid;

Mremonic: World champion-- Shio

can also be applied to border-too, border-right Note: W/C/s combi

Fone

font-sly Ce fort-weight

60H 12px/2

For some reason it is divided

fort-family

combines font-Style, Font-weight, cont-size line tersht font-Acemily

Mnemoric: STatistics work Hates ailing Doesn't make sense but

Background Images

: it's different from ima HTML element!

Shorthand property for background:

italic

color body {

image urll http://www.htmldog.com/images/bg.gif) no-report top right; background: White reteat

by Slash.

background - color: self-explanatory

background-image: Location of image

background-repeat: How the image repeats itself: Grepeat: "tile" across whole background

13 repeat - y: repeat on y-axis brereat-x : repeat on x-axis

background-position: top, center, bottom, left, right, a leasth, percentage or any sensible combo such as

top right.

(an specify things like attachment, clip, origin and size.

Note: Background images can be used for most HTML elements. Can use effectively, e.g. visit HTML dog and see the magnifying glass in the search box, and as icons in the top left corner

11

```
Specificity
```

When there is conflict for application of CSS rules, browser follows some rules to determine which one is most specific

If the selectors are the same than the [Last] one takes precedence

Pf color red; } -> Takes precedence, ; elements colored blue Pf color: blue; 4 -

But, this usually won't happen, consider nested selectors

div p / color: red; }

P { color, blue; } -> Is last, but does not take precedence!

17 Text will actually be red! The first Selector has a higher specifity.

The more specific a selector, the more preference it will be given

Calculating specificity

ID selectors: 100 Class selectors: 10 HTML Selector: 1

Values, add them up to get total specificity. The higher, the better

(=1) implies ID is V. spaific Followed by class then HTML

e.9.

b\$ D = 0

Lo div p. tree = 1+ 1+ 10 = 12

bdiv P = 1+1=2

4 basbab = 100

Lo . tree = 10

Lo body # content alternative P = 1+100 +10+1 = 112

Dismay

9 May 2019

Browser's default visual representation of most HTML elements consist or varying font Styles, margins, podding and essentially, display types

Types of display: in line, block, none.

Inline: Boxes that are displayed follow the flow of a line.

block: Makes a box stand alone, fitting the entire width or box with Line of edle.

to Allows manipulation of feight, margins and fadding.

Note: inline-block will make boxes inline but Still allow formenting flexibility.

Doesn't display boxes at all! Useful to "turn off" display, e.g. alternating.

by display: none => Element's box is completely out of Play. Visibility: hidden ID keeps the box and its flow in Place, without representing content.

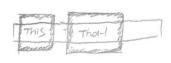
There are tables, list-inem and run-in but this seems less important.

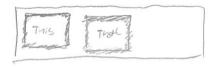
Block:



Inline:

Inline- Heck!





10 May 2019 Seudo elements They are like pseudo classes. It has this form: Selector: Pseudo element [Property: Value first-letter & first-line The first-letter Pseudo clement is applied to first letter incide a 60x, first-line is applied to the top-most displayed line in a box (It doesn't require line treaks) e.g.: Note: CS3 specs suggest P1 Years Pseudo elements should include font-size: 12 px; I have not fanc two colons to differentiate anyone else worthy or Wielding MioInir. With Beudo elements. P: First-letter L except Perham one merson. font-size: 240x; But it seems like set son Hoat: loft; not bockwards compatible P: First-Line text-decoration: underline; 4 before and after are used in consuction with the content property to place content without tauching the HTML. Use sparingly! You are using content solely for 4 close-quote L) String enclosed in quotation is Any image, using will imagename) The value or see content can be: 4> Open-quote Marks Essentially, are new box to play P: before 9 Li: before blockquote: before blockquote: after Content: Open-quote; content: close-quote; content: "pow!": content: url (images / jam. jog) background: red: 1 color: #fc0 Page layout: Essentially, taking a churk of your page & share it wherever you choose used to define whether a box is absolute, relathe Positioning): Position Property is default value and renders a box in the normal order by telative: Like Static, but box can be offset from position with properties: top, right, bottom, left Ly absolute: Pulls a box into its own crazy little ward. top, right, bottom, left are also used. by fixed: like absolute, but will reference to branser window. Fixed boxes stay exactly where they are on Screen, even after scrotling.

Note: Absolutely positioned box is still robative from edge of the page. Page doen't have to be container. A box will be absolutely positioned in relation to any non-static positioned box!

P Charles to pose or factor to pose or factor to p

non-state

ATTUL LES

Daviside: They live in a world of their own; an't determine accurately! When using relative values for widths and sizes, we need to abandon all hope of placing anything: (e.g. footer. Enter float!

floating

Floating a box will shift it to the right or left of a line, with surrounding content flowing around it

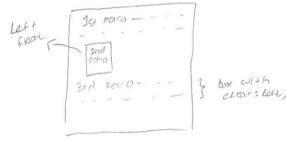
· Normally for Smaller chunks like a line, but bigger chunks like columns is good too.

float: lest;



But, if you don't want the next box to wrap around the floating Objects: apply clear

lefti -clear left-floorier 1 box Clear: right, - dear right- Stoated to both; - clear both freezed box



e. a.

< div id="footer">

<P> This is a footer <1p>

#footer &

Clear: both;

</div> Creates pooter that will appear underheath all columns, regardless or the Lenoth or any or thom

While this tut emphasises larger "Churres" these methods can be applied to any box within boxes too!