HTML/CSS

Structure of a webpage

Let's visit wikipedia and look at the structure of the webpage through developer tools

Notice that you can change the style

Tree like structure

https://youtu.be/y5NbZSvn5N8

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/explore.html

Load this page

Create the tree structure for the page using developer tools

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/explore.html

Individual work

Get in your groups

You have 15 minutes

HTML/CSS/DOM

https://youtu.be/tSv2KIF7uE4

Is everything a box?

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/shapes.html

Why are boxes useful?

https://youtu.be/fvtm9lK-JM0

Boxifying

If you have a design in mind, the first thing to do is to boxify it

Example

Flying Kittens! Inc.



Lorem ipsum dolor sit amet, consectetur adipisicing elit.

Nobis, quas id vel reprehenderit soluta, consectetur

molestias, esse voluptatibus rem impedit autem ex nisi

alias commodi nulla in, voluptatum officia? Eos.

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Flying Kittens! Inc.



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Rules for boxifying

Rule 1: A box cannot contain two non box things

Rule 2: No two boxes can overlap

Rule 3: If an element is beside another element or on top of another element, they have to share an ancestor

Rule 1: A box can only contain one thing

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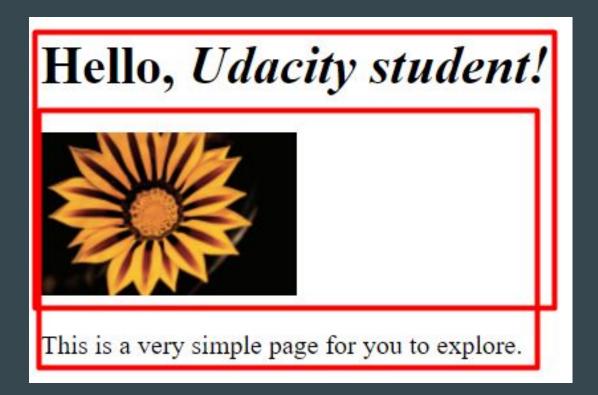
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Rule 2: no overlap



Rule 3: if they are beside each other, they to share an ancestor

My Favorite App



Some description here.

Rule 3: if they are on top of each other, they to share an ancestor



Rule 4 (Final rule)

All the elements that are immediately under a box are either

- Beside each other
- On top of each other

Rule 4: all children either beside each other or on top of each other

My Favorite App



Some description here.

Exercise: what is wrong with this boxification?

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Biggest box

The biggest box is usually omitted from boxification.

Reasons:

- It is obvious that there should be a box there
- Adds to the visual noise without any benefit

Design to code

https://youtu.be/JsH_eSZGhyg

Boxify this webpage

Then write the div structure of this webpage on your computer

When you are done, add the class attributes

15 minutes

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/explore.html

Rule specificity

https://youtu.be/oaitg9nRqvc

Selectors and attributes

https://youtu.be/EsBmDg_edGQ

Reference: https://developer.mozilla.org/en-US/docs/Web/CSS/Reference

Three kinds of selectors

class	.classname
id	#someid
tag	sometag

Write the css to make the dogs red.

<div class="canine"> poodle </div>

<div class="feline"> tabi </div>

<div class="canine"> labrador </div>

class	.classname
id	#someid
tag	sometag

Write the css to make the dogs red.

<hl class="animal"> poodle </hl>

<h2 class="animal"> Felix the cat </h2>

<hl class="animal"> labrador </hl>

class	.classname
id	#someid
tag	sometag

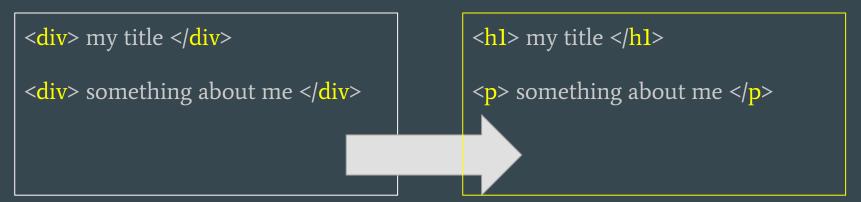
Write the css to make the dog red.

<div id="goodboy"> poodle </div>

<div id="royalcat"> Felix the cat </div>

class	.classname
id	#someid
tag	sometag

Other tags than divs



Why?

- Search engines use tags to index a webpage
- You don't have to style the divs manually. Saves time.

Introduction to flex

https://youtu.be/sv2rVjnYfGQ

Flex example (demo)

display: flex

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/explore.html

How to place the image beside the text?

Box model (demo)

4 parts of a box:

- margin
- border
- padding
- content

Let's see it in action

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/box-model.html

Question: What is the width and height of this box?

```
<div
style="height: 100px;width: 100px;margin: 50px; padding:25px; border-width: 10px">
hello
</div>
```

Fixing this situation

```
html {
 box-sizing: border-box;
*, *::before, *::after {
 box-sizing: inherit;
```

Demo: editing HTML in vscode

https://stackoverflow.com/questions/30039512/how-to-view-my-html-code-in-browser-with-visual-studio-code

Install vscode