HTML5 & CSS3

Week 8

Today's Agenda

1- Homework & Git questions	1	0	mir	1S
-----------------------------	---	---	-----	----

- 2- Video/Audio Tags 25 mins
- 3- Basic Grid 45 mins
- 4- Git Branches 45 mins
- 5- Bigger, Better Grid System
- 6- Homework

Homework Discussion

Questions/comments on homework?

Collaboration wins you'd like to share?

Multimedia Elements

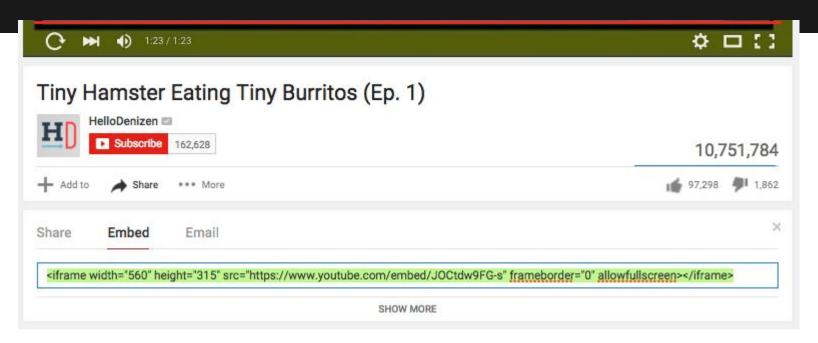
Getting Started

- Download blank-slate.html.zip & dipper-diving.mp4 from Lesson 08 Overview
- Make a new folder in
- foundations/week8 called "video".
- Copy & paste unzipped contents of blank-slate.html into a new file (or save-as).
- Move dipper-diving.mp4 to foundations/week8/video

HTML5 Multimedia

- Present multimedia files the same way you would an image
- New!
- Cool!
- Better than embedding a YouTube video!

Embed a YouTube Video



Under "Share", on the "Embed" tab, there's an <iframe> element.

Copy and paste into your HTML.

Video Party



Wow.

Why Not YouTube Always?

- You have no control over the media. If the video is taken off YouTube, your page is broken.
- You can't style the <iframe> element that holds it, and it will sometimes break other layout elements on page.

<video>

Pros:

- Styleable with CSS
- You control the availability of media
- Can stream, if source is an http or https: streaming source

Cons:

No copy protection;
 as easy to copy &
 save as imgs are
 now

<video> Basic Syntax

<video src="" options>fallback content</video>

```
<video src="cool.mp4" controls>
    Sorry, your browser does not support video :(
</video>
```

<video src="rad.ogg" autoplay></video>

<video> Better Syntax

List multiple sources- different filetypes of same content, so browsers have fallbacks.

Inline Styles?!

Including the height and width in the video tag lets the browser know how much space to reserve for the video element when rendering the page, so the layout doesn't change after the video loads (it'll be slower than other elements on page because it's a large file).

Video Formats

HTML Video - Browser Support

Currently, there are 3 supported video formats for the <video> element: MP4, WebM, and Ogg:

Browser	MP4	WebM	Ogg	
Internet Explorer	YES	NO	NO	
Chrome	YES	YES	YES	
Firefox	YES	YES	YES	
Safari	YES	NO	NO	
Opera	YES (from Opera 25)	YES	YES	

Video Conversion

There are lots of free, online conversion tools available if you need to convert your content to a different format.

Responsibility

- Always show controls to users
- Never autoplay media content (unless you're RickRolling someone)
- Don't use content that you don't have license to use. If you want to use someone else's work, look for content available via Creative Commons licenses.

Creative Commons Sources

video: http://vimeo.com/creativecommons

video, audio, and images:

http://search.creativecommons.org/

Audio

The <audio> tag works almost exactly the same as <video>. It is used less often, so we won't cover it in depth today.

Learn more about the audio tag on your own:

http://www.w3schools.com/tags/tag_audio.asp

In Class Project

Explore sources for video, download at least one, and include it in your multimedia page with the <video> tag.

You can also try adding an audio tag using the mp3 file included in Lesson 08 Overview, if you'd like.

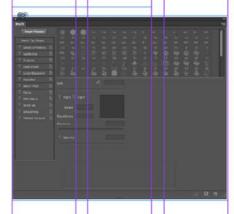
Grid Basics

What is a Grid?

A grid is a way to divide horizontal and vertical space on a web page into consistent units. It is very similar to how we used to style with tables. It's also the standard for most print layouts.



The Brushes Panel



Ouibus aut ee dolupta voluptaque lanihictur reitin eum conet quidus magnihi liquias elimperiost am volupta venisqu'odiqatium, et iniam, veri puptam, et officid ebitat. Ut unt apienderrore pérovitatas dolor aut ma quamusa conseru pibus est libus dis eici aspic tertiorem. Et dus est puaecer soelib.

Hit et ligenis veles ra decèm audae voluptatas laturi fugiame nditat il moiorem. Usam doluptial-rum rendero omnitit eruptati con nullaccum quaeptaquam aute nis acea veliabores re derri quae cus. Henda evendition pella quoditium lanlipa amusae optatis suntemp ereicilic tecum narciis alibus voloreniosum et quam fugit por sedi ut hillabo. Nam iur molorep ernatureic tej quiperspe.

Ferspero videlibueda) audis verro corepudio d'fictaleped eum, cue quo magnis eequo inci ate sircius ant facit venis eum iliquat altibust, quia volupta culpa consequi aut ex et accuptatquam venhil inversped qui doluptatur sunti in etiveris expelit iuntumetur amenis arbusdae commoluptur allequia dolupta dolorep errorest quo everionectas et alticor.

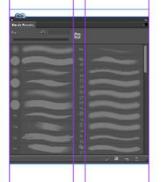
23

Special Hint: Brush Presets

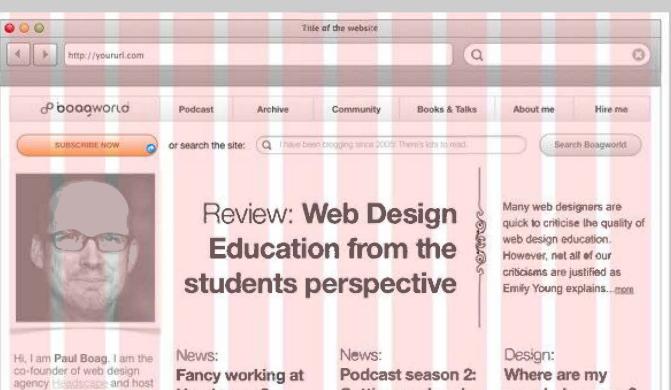
Epudipid quid quod esed majosandani te lam nobit alici sit, aut rate laciis mod et od qui ressum doleseguam, eseguas que nimiliquis corpore nus maximus.

Intibus. Unt id etur aciatiem fujaissperume es et aut quae mo exerce as cunificate corscusam verspectio. El aute noble pro que diclesse tempel lus motupatium consequia pos estir cus enotifi ad que volliquid mo quaid quaeme tile etus vollet volcetem ur volutipate venim est aliquam dioloreicilis else alptemoiore mil idencioratem et quis estibenia iglaam en exceptre prachicular soiomo vitatur, difictem rijevalujne accaborae estitis rem

Ed quidum, losam vit estibu violor sum con pra quundest int, tempore, chosel eature, non cus iliquid ut facerch iliquam ex elliptie imi il ma con rienimus quibus inotempora perutito id qui volupia volor sibba, optatu, et dit elivergibi esedit occum aut as et colipsuntus, etta andiol Arujata quaepia etum et pilgend undebitat faccali faceptaturit ratiur alci lo siest hillicoto bea porepeliecupa verum auparem ari le ee eccabor autecab ofespein attectur auditatust fla yoluptatur?



5 Column Grid



of the boagworld podcast.

If you are looking for advice on designing, developing or running your website then you are in the nant place.

I recommend starting with:

- . My guide for those new to the site.
- . Searching for a specific topic. . Pollowing me on builtier.

Headscape?

Are you a front end developer? Do you get obsessed by HTML, CSS, Javascript? Fancy working with Headscape in Hampshire? Give us a shout.

Getting our hands dirty

I have been recording the Boagworld Podcast for over 5 years now and yet we have never built a website as part of the show. Its lime for that to change.

rounded corners?

Do you struggle to explain or Understand why a website toeks different in different prewsers? If so, I might just be able to help.

How is it Used?

A row contains one or more columns. Each column is a fraction of the total width (eg: ½). Columns are styled to be the appropriate width based on their class names.

Rules

- All content goes within columns
- Only columns may be immediate children of rows
- Each row's columns must total 12 (or the max for the grid)- if it is more, they will stack

It Goes Deeper

Columns may also contain rows which contain more columns...

Your Site Name



Column Nested Grid

Title

- · this is pretty item one
- · other nice one is two
- · and more is three of the same

Title

- · this is pretty item one
- · other nice one is two
- · and more is three of the same

Title

- · this is pretty item one
- · other nice one is two
- · and more is three of the same

Title

Heading

This extension is delivering really great results! It is so easy to generate new designs based on the 960 Grid System! It is all so visual really amazing

Title

What can we do with it?

Title

easy

	Ī					
Here	is	some	thing	yo	u	
might	a	lways	want	ted	to	do

Here is something you might always wanted to do easy

Title

Here is something you might always wanted to do easy

Title Here is something you might always wanted to do easy

What More?

And now something else? Maybe you would like two cells? Well pretty easy to do just add new row!

Example Code

Download and unzip basic-grid.html from Lesson 8 Overview. We'll review how the pieces work together.

In Class Project

Replace the simple text in basic-grid.html with real HTML elements and more content (lorem ipsum? images?). See how grid behaves with different amounts/types of content. Improve CSS to make it more realistic (add padding? remove background-color?).

Git Branches

Git Branches

Branches are a great way to work on a certain part of your code without affecting the rest of it.

Branches allow you to work experimentally, or work with collaborators easily.

Branches

The default branch is "master". It is usually used as the canonical branch- where code goes when it works well!

Branching

- Develop different code on the same base
- Conduct exploratory work without affecting the work on master branch
- Incorporate changes to your master branch only when you are ready

Branching in Bash

View all branches:

git branch

Switch to an existing branch:

git checkout branch_name

Create a new branch and switch to it:

git checkout -b branch_name

Git Branches

To merge branches, checkout base branch:

git checkout branch-name

Then merge in desired branch:

git merge other-branch-name

Merges are one way transactions.

In Class Project

Back to your basic-grid.html file.
Make a noticable change to your html.
Commit and push this file to a newly
created repository

In Class Project

Create and switch to a new branch In this new branch add a <video> and/or audio Add, Commit and Push to the new branch git push -u origin newBranch Switch back to your main branch The changes aren't there?!?!?! Let's merge them together.

Better Grid

Someone Else Does the Hard Work!

Why Use Open Source Tools?

- save you time
- save you errors
- industry standard
 - other devs are familiar with them, or can easily find documentation about them, so have an easier time working with them, compared to idiosyncratic custom solutions

Pitfalls of Open Source

- Someday, they'll no longer be maintained
- Documentation can be out of date
- May be too complex for you to easily understand
- May require you to fundamentally change your project
- Might not actually work

How to Pick a Winner

- Great documentation
- Updated often
- Used widely
- Easy to add to your project, and easy to remove later
- Is on Github or Gitlab, or has source code otherwise available

Responsive Grid System

Check it out!

http://www.responsivegridsystem.com/

Note: Bootstrap

Bootstrap's grid system is the most popular choice, but it's part of a much bigger package.

Allison will talk in-depth about it Monday.

Homework

stp-archery styles

Write CSS (and supplemental HTML if necessary) to style your site.

At least one page should use a grid layout.

It's okay if your design evolves from the layout sketches- I don't expect it to match perfectly.

CSS Selector Review

Only use divs and ids when absolutely necessary. Try other options first.

Most of your css selection can be accomplished with context and classes.

Only articles with a class of 'class-name' Only lis that are in navs that are in headers header nav li Only links that are in the hover state a:hover Only ps that are the first child of their parent p:first-child li:first-of-type Only lis that are the first li child of their parent li:last-of-type Only lis that are the last li child of their parent li:not(.class-name) All lis that don't have the class 'class-name'

article.class-name

CSS Class Review

Classes should be reusable and generic. Elements can have several classes.

```
.call-to-action {
    border: 1px solid green;
    background-color: pink;
}
.shadowed { box-shadow: 2px 2px 5px green; }
```

<div class="call-to-action shadowed"></div>

Yeah!

