

Comp 388/424 - Client-side Web Design

Spring Semester 2016 - Week 9

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Contents

- Demo app - continued
- JSON recap
- AJAX and JSON
- CSS grid layout
- Add some Flex
- Extras

HTML5, CSS, & JS - example - part 7

delete option - per note

- consider adding a single delete option per note
- allowing a user to selectively delete their chosen note
 - *regardless of hierarchical position within the .note-output section*
- design decisions for such an option might include
 - *do we offer a selection option, such as checkboxes, to select one or more delete items*
 - *perhaps a single delete button per note*
 - *a drag and drop to delete option*
 - *there are many different ways to present and use this option*
- programmatically follow a similar pattern for deletion of the note
- three jQuery functions can help us remove elements from a document
 - *remove()*
 - *detach()*
 - *replaceWith()*

jQuery - removing elements - quick overview

- used `remove()` function with delete all notes
 - best used to remove elements permanently from a document
 - will **unbind** any attached event handlers for elements being removed
 - will return reference to removed elements, but not the original bound events
- `detach()` often used for any temporary removal requirements
 - eg: update a lot of the DOM, detach affected elements, then insert later...
 - retains its event handlers, and we can add these elements later

```
$("#p").detach();
```

- then append the attached elements as required

```
var $detachP = $("#p").detach();  
$detachP.appendTo("#detached");
```

- `replaceWith()` replaces an element, or group of elements, with passed element
- event handlers for the replaced elements are unbound

```
var $replacedP = $(".note-output p").first().replaceWith("<p>replaced...</p>");
```

HTML5, CSS, & JS - example - part 8

delete option - per note

- simply need to delete the selected note
 - use the same *remove()* function for single and all notes
- add option per note to allow user to delete a required note
- add a delete button for each note
 - add programmatically with each new note

```
function createButton(buttonClass, buttonText) {  
  var $button = $('<button class="'+buttonClass+'">'+buttonText+'</button>');  
  return $button;  
}
```

- new function allows us to create simple buttons as required
 - a specified class and button text passed as parameters
 - use function to build required delete button in *createNote()* function

```
//create delete button  
var $delete_button = createButton("note-delete", "delete");
```

HTML5, CSS, & JS - example - part 9

delete option - per note

- append delete option to note
 - *before adding note to the DOM in createNote function*

```
function createNote() {  
  ...  
  //set content for note  
  $note.html($note_text.val());  
  //append delete button to each note  
  $note.append($delete_button);  
  ...  
}
```

HTML5, CSS, & JS - example - part 10

delete option - per note

- need to bind a click event to the dynamically created delete note button
- delete button is being added to the DOM dynamically
 - *need to add handler for single note deletion event to existing DOM element*
 - *add handler to parent `.note-output` and then new button `.note-delete`*

```
$(".note-output").on("click", "button.note-delete" , function() {  
    //delete parent note  
    $(this).parent().remove();  
    //set note selector  
    var $note = $(".note-output p");  
    //check for empty notes, and then remove note-controls  
    if (checkExist($note) === false) {  
        //hide note-controls  
        $(".note-controls").hide();  
    }  
});
```

- DEMO 3 - travel notes - demo 3

Image - HTML5, CSS, & JS - week 6 - demo 3

travel notes

record notes from various cities and places visited...

add note

breakfast in Antibes

lunch in Nice

dinner in Monaco

app's copyright information, additional links...

Travel Notes - Demo 3

HTML5, CSS, & JS - example - part II

delete option - per note

- now allow our users to delete a single note
- single note option is awkward at the moment
- simply allow a user to either mouseover or select a note to show additional options
 - *showing the available delete button*
- enable a user to select their note of choice
 - *need to bind a click event to a note*

```
//handle click event per note  
$(".note-output").on("click", "p", function() {  
  ...  
}
```

- user selects a note
 - *no check for previous other visible delete buttons*
 - *ensure only delete button for selected note is shown*

Image - HTML5, CSS, & JS - too many delete buttons

travel notes

record notes from various cities and places visited...

add note

cannes note

nice note

monaco note

antibes note

app's copyright information, additional links...

Travel Notes - Week 6 - Too many delete buttons

HTML5, CSS, & JS - example - part 12

delete option - per note

- return to our earlier function, `checkVisible()`
- modify to allow better abstraction and usage
- modify to test for visibility
 - *then simply return a boolean value*

```
//check element visibility - expects single element relative to display:none
function checkVisible(element) {
  //check if element is hidden or not
  if (element.is(":hidden")) {
    return true;
  } else {
    return false;
  }
}
```

- also need to modify check for the `.note-controls` in `createNote()` function

```
...
//check visibility of note controls
if (checkVisible($(".note-controls")) === true) {
  $(".note-controls").fadeIn();
}
...
```

HTML5, CSS, & JS - example - part 13

delete option - per note

- updated handler for note selection now checks for visible delete buttons

```
//handle click event per note
$(".note-output").on("click", "p", function() {
  //check if other delete buttons visible
  if (checkVisible($(".button.note-delete")) === true) {
    $(".button.note-delete").hide();
  }
  $(this).children("button.note-delete").show();
});
```

- bind handler for the user clicking on a note
- check whether other delete buttons are visible on any other notes
 - *if visible, we can simply hide these delete buttons*
 - *then show the delete option for the currently selected note*
- later abstract this function to handle other options associated with each note
- DEMO 4 - travel notes - demo 4

HTML5, CSS, & JS - example - part 14

style note(s)

- add some additional styling to our notes
 - *start with some changes to the design of each note*
 - *then considered the overall `.note-output` section*
- remove styling for alternating notes, set uniform style per note

```
/* note paragraph output */  
.note-output p {  
  margin: 10px;  
  padding: 10px;  
  border: 1px solid #b1c4b1;  
  cursor:pointer;  
}
```

- need to add some styling for our delete button, and position it within each note

```
/* note delete button */  
.note-output p button.note-delete {  
  display: block;  
  padding: 5px;  
  margin: 5px 5px 10px 0;  
  border-radius: 0;  
  border: 1px solid #dedede;  
  cursor: pointer;  
}
```

HTML5, CSS, & JS - example - part 15

style note(s)

- add some styling for the button's hover pseudo-class
 - *acts as useful feedback to the user that the button is an active element*

```
.note-output p button.note-delete:hover {  
  background-color: #aaa;  
  color: #fff;  
}
```

- also consider adding some similar feedback to our note
 - *a sign of active as the user moves their mouse cursor over each note*

```
/* note paragraph output hover */  
.note-output p:hover {  
  border: 1px solid #1a3852;  
}
```

- DEMO 5 - travel notes - demo 5

HTML5, CSS, & JS - example - part 16

style note(s)

- a couple of issues that still need to be fixed in the application
 - *first issue is lack of consistency in styling our buttons*
- fixed by abstracting our CSS styling for a default button
 - *specific button styles can be added later*

```
/* default button style */
button {
  padding: 2px;
  margin: 2px;
  border-radius: 0;
  border: 1px solid #dedede;
  cursor: pointer;
}
```

- removed the need for a ruleset to style the button for
 - *adding a note, delete all notes, and the single delete button per note*

HTML5, CSS, & JS - example - part 17

style note(s)

- also create a default ruleset for a button hover pseudo-class
 - *again reducing our need for repetition in the stylesheet*

```
/* default button hover style */  
button:hover {  
  background-color: #aaa;  
  color: #fff;  
}
```

- iterative development is fine
 - *continue to abstract styles, overall design, and logic as we develop an application*

HTML5, CSS, & JS - example - part 18

style note(s)

- second issue is the expected interaction with each note
 - *issue is simply that a user cannot choose to remove this option*
- should be able to toggle its view and options
- update interaction by modifying handler for click event on a note
 - **NB:** `toggle()` for events was removed in jQuery 1.9
 - *build our own*

```
//handle click event per note
$(".note-output").on("click", "p", function() {
    //check if other delete buttons visible
    if (checkVisible($(".button.note-delete")) === true) {
        //set all siblings to active=false to ensure checks are correct
        $(this).siblings().attr("active", "false");
        $(".button.note-delete").hide();
    }
    //then handle click event for current note
    if (!$ (this).attr("active") || $(this).attr("active") === "false") {
        $(this).attr("active", "true");
        $(this).children("button.note-delete").show();
    } else if ($(this).attr("active") === "true") {
        $(this).attr("active", "false");
        $(this).children("button.note-delete").hide();
    }
});
```

- DEMO 6 - travel notes - demo 6

HTML5, CSS, & JS - example - part 19

a few extras to consider...

- alternative layouts
 - *grid*
 - *squares*
 - *snippet view*
 - *table*
 - *lists...*
- notifications
- snippets with expansion
- split views
 - *note snippet with contextual/media per note...*
- drag and drop delete
- filters
- sort options
- tags
- much, much more...

Image - Square notes - a bit of fun

travel notes

record notes from various cities and places visited...

add note

add

Delete all

cannes

nice

monaco

antibes

frejus

st tropez

eze

app's copyright information, additional links...

Travel Notes - Week 6 - Squares

- DEMO - travel notes - squares

JS Objects - quick recap - part I

- important JavaScript primitive
 - *one of the most frequently used as well*
- created with curly braces,

```
var object1 = {  
  "a": "nine",  
  "b": "ten"  
};
```

- access internal variables of this object using the dot . operator

```
console.log(object1.a);
```

- update the value of an internal variable

```
object1.a = "amelia";
```

JS Objects - quick recap - part 2

- also create an empty variable, and then assign values as necessary

```
var object1 = {};
```

- an object can contain variables with values of different types
- store variables in an object with types such as strings, arrays, and even other objects
- function variables behave just like any other variables in JavaScript
 - *we can also store them in our objects as needed*

```
var $a = $("p");  
$a.hide();
```

- simply attach a function to a jQuery object

JSON - quick recap

- a JSON object is effectively a JavaScript object
 - *contained within curly braces*

```
{  
  "country": "France",  
  "city": "Marseille"  
}
```

- objects can contain multiple name/value pairs
- object stored in the form of a string
- to send a JS object
 - *create it in the application's code*
 - *then convert it to a string*
 - *finally use it as required*
- a lot of the AJAX is abstracted to JavaScript libraries

JSON - pros and cons

useful pros

- more concise, less verbose than XML and HTML
 - *potentially faster execution of data...*
- regularly used with JavaScript
 - *includes good support*
- language agnostic, interoperability
 - *can be used with many different programming languages*
- can also be called from many different domains
 - *eg: JSON-P...*

some cons

- may present security risk
 - *malicious content due to JavaScript XSS*
 - *need to verify source for JSON...*
- syntax is precise, unforgiving

JS and JSON - functions

- creating some JSON string is easy enough
- also easily create a JSON string from a JavaScript object
 - *and vice-versa*
- use the JavaScript `stringify` function

```
var jsonObject1 = JSON.stringify(object1);  
console.log(jsonObject1);
```

- similarly parse a JSON string to a JS object

```
var object2 = JSON.parse(jsonObject1);  
console.log(object2);
```


AJAX and JSON - part I

intro

- AJAX is as a simple way to load data
 - *often new or updated data*
 - *into a current page without having to refresh the browser window*
- common form of data for work with AJAX is JSON
- many common usage scenarios and examples for AJAX
 - *autocomplete in forms*
 - *live filtering of search queries*
 - *real-time updates for content and data streams*
- also use AJAX to help us load data behind the scenes
 - *preparing content for our users before a specific request is received*
 - *helps to speed up page responses and data load times*
- AJAX uses an asynchronous model for processing requests
- user can continue to perform various tasks, queries, and work
 - *whilst the browser itself continues to load data*
- inherent benefit of AJAX should include
 - *a more responsive site, intuitive usage and interface experience*

AJAX and JSON - part 2

asynchronous model

- traditional synchronous model normally stops a page
 - *until it has loaded and processed a requested script*
- AJAX enables a browser to request data from the server
 - *without this synchronous pause in usage*
- AJAX's **asynchronous processing model**
 - *often known as **non-blocking***
 - *allows a page to load data and process user's interactions*
- server responds with the requested data
 - *an event will be fired by the browser*
 - *event can then call a function to process the data*
 - *often JSON, XML, or simply HTML*
- browser will use an **XMLHttpRequest** object to help handle these AJAX requests
- browser will not wait for a response

JSON and jQuery - get a file - part I

initial setup

- try some AJAX with a JSON file

```
{  
  "country": "France",  
  "city": "Marseille"  
}
```

- save this content to our docs/json/trips.json file
- run on a server, local or remote
 - browser security restrictions for JavaScript
 - local server such as XAMPP, Python's SimpleHTTPServer, Node.js...

```
python -m SimpleHTTPServer 8080
```

- initially use the `getJSON()` function to test reading this content

```
$.getJSON("docs/json/trips.json", function(trip) {  
  console.log(trip);  
});
```

- console output is expected JSON object

```
Object { country: "France", city: "Marseille" }
```

JSON and jQuery - get a file - part 2

test with site

- now use this return object to load our data as required within a site

```
//overall app logic and loader...
function loadJSON() {
    "use strict";

    $.getJSON("docs/json/trips.json", function(trip) {
        //element for trip data
        var $tripData = $("

");
        //add some content from json to element
        $tripData.html(trip.city + ", " + trip.country);
        //append content to .note-output section
        $(".note-output").append($tripData);
    });
};

$(document).ready(loadJSON);


```

- DEMO-AJAXI - AJAX - demo I

JSON and jQuery - get a file - part 3

array for trips...

- need to store multiple trips
 - *multiple countries, multiple cities, and so on...*
- need to work with JSON arrays
 - *update `trips.json` file for cities*

```
{
  "cities": [
    {
      "name": "Marseille",
      "region": "Provence-Alpes-Côte d'Azur"
    },
    {
      "name": "Paris",
      "region": "Île-de-France"
    }
  ]
}
```

JSON and jQuery - get a file - part 4

load an array for trips...

- update JavaScript to load array and set data as required

```
//overall app logic and loader...
function loadJSON() {
    "use strict";

    $.getJSON("docs/json/trips.json", function(trips) {
        //element for trip data
        var $cityData = $("<ul>");

        //iterate over cities array - trips.cities...
        var $cities = trips.cities;
        $cities.forEach(function (item) {
            var $city = $("<li>");
            $city.html(item.name + " in the region of " + item.region);
            $cityData.append($city);
        })
        //append list to .note-output
        $(".note-output").append($cityData);
    });
};

$(document).ready(loadJSON);
```

- DEMO-AJAX2 - AJAX - demo 2

HTML5, CSS, & JS - travel notes

a few extras to consider...

- alternative layouts
 - *grid*
 - *squares*
 - *snippet view*
 - *table*
 - *lists...*
- notifications
- snippets with expansion
- split views
 - *note snippet with contextual/media per note...*
- drag and drop delete
- filters
- sort options
- tags
- much more...

CSS grid layout - part I

intro

- grid designs for page layout, components...
 - *increasingly popular over the last few years*
 - *useful for creating responsive designs*
- quick and easy to layout a scaffolding framework for our structured content
- create boxes for our content
 - *then position them within our grid layout*
- content can be stacked in a horizontal and vertical manner
 - *creating most efficient layout for needs of a given application*
- another benefit of CSS grids is that they are framework and project agnostic
 - *thereby enabling easy transfer from one to another*
- concept is based upon a set number of columns per page with a width of 100%
- columns will increase and decrease relative to the size of the browser window
- also set break points in our styles
 - *helps to customise a layout relative to screen sizes, devices, aspect ratios...*
 - *helps us differentiate between desktop and mobile viewers*

Image - Grid Layout



CSS grid layout - part 2

grid.css

- build a grid based upon 12 columns
 - *other options with fewer columns as well*
- tend to keep our grid CSS separate from the rest of the site
 - *maintain a CSS file just for the grid layout*
- helps abstract the layout from the remaining styles
 - *makes it easier to reuse the grid styles with another site or application*
- add a link to this new stylesheet in the head element of our pages

```
<link rel="stylesheet" type="text/css" href="assets/styles/grid.css">
```

- ensure padding and borders are included in total widths and heights for an element
 - *reset `box-sizing` property to include the `border-box`*
 - *resetting box model to ensure padding and borders are included*

```
* {  
  box-sizing: border-box;  
}
```

CSS grid layout - example - part 3

grid.css

- set some widths for our columns, 12 in total
 - *each representing a proportion of the available width of a page*
 - *from a 1/12th to the full width of the page*

```
.col-1 {width: 8.33%;}  
.col-2 {width: 16.66%;}  
.col-3 {width: 25%;}  
.col-4 {width: 33.33%;}  
.col-5 {width: 41.66%;}  
.col-6 {width: 50%;}  
.col-7 {width: 58.33%;}  
.col-8 {width: 66.66%;}  
.col-9 {width: 75%;}  
.col-10 {width: 83.33%;}  
.col-11 {width: 91.66%;}  
.col-12 {width: 100%;}
```

- classes allow us to set a column span for a given element
 - *from 1 to 12 in terms of the number of grid columns an element may span*

CSS grid layout - example - part 4

grid.css

- then set some further styling for each abstracted col- class

```
[class*="col-"] {  
  position: relative;  
  float: left;  
  padding: 20px;  
  border: 1px solid #333;  
}
```

- create columns by wrapping our content elements into rows
- each row always needs 12 columns

```
<div class="row">  
  <div class="col-6">left column</div>  
  <div class="col-6">right column</div>  
</div>
```

CSS grid layout - example - part 5

grid.css

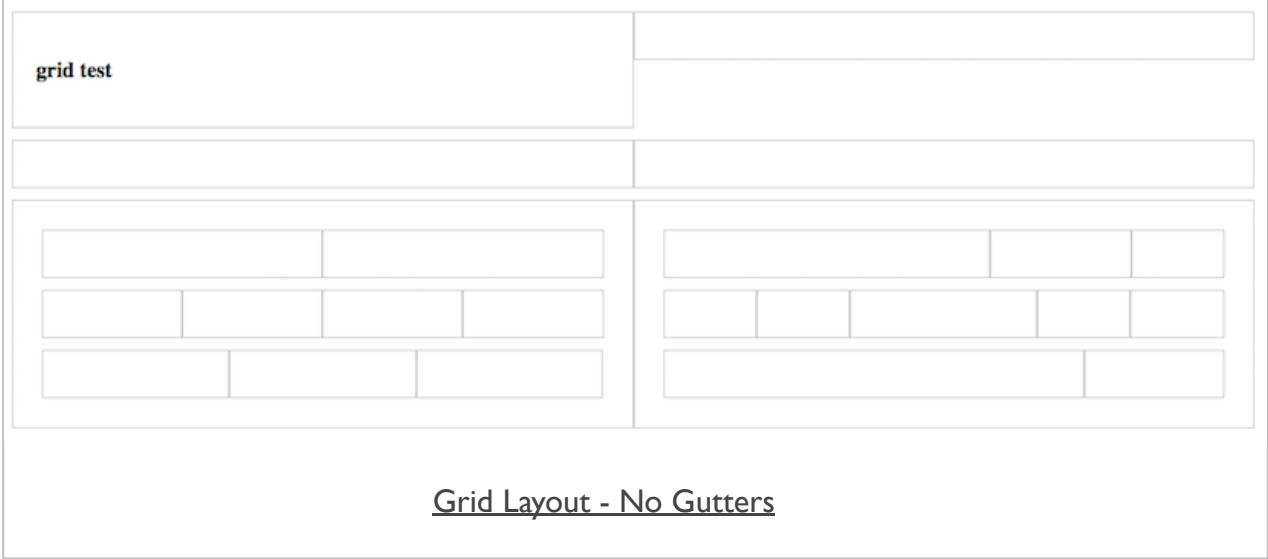
- due to the initial CSS of float left, each column is floated to the left
- columns are interpreted by subsequent elements in the hierarchy as non-existent
 - *initial placement will reflect this design*
- prevent this issue in layout, add the following CSS to grid stylesheet

```
.row:before, .row:after {  
  content: " ";  
  clear: both;  
  display: block;  
}
```

- benefit of the clearfix, `clear: both`
 - *make row stretch to include columns it contains*
 - *without the need for additional markup*

DEMO - Grid Layout I - no gutters

Image - Grid Layout I



CSS grid layout - example - part 6

grid.css

- add gutters to our grid to help create a sense of space and division in the content
- simplest way to add a gutter to the current grid css is to use padding
 - *rows can use padding, for example*

```
.row {  
  padding: 5px;  
}
```

- issue with simply adding padding to the columns
 - *margins are left in place, next to each other*
 - *column borders next to each with no external column gutter*
- fix this issue by targeting columns that are a sibling to a preceding column
- means we do not need to modify the first column, only subsequent siblings

```
[class*="col-"] + [class*="col-"] {  
  margin-left: 1.6%;  
}
```

Image - Grid Layout 2

grid test 2 - gutters



app's copyright information, additional links...

Grid Layout - Gutters Overflow

CSS grid layout - part 7

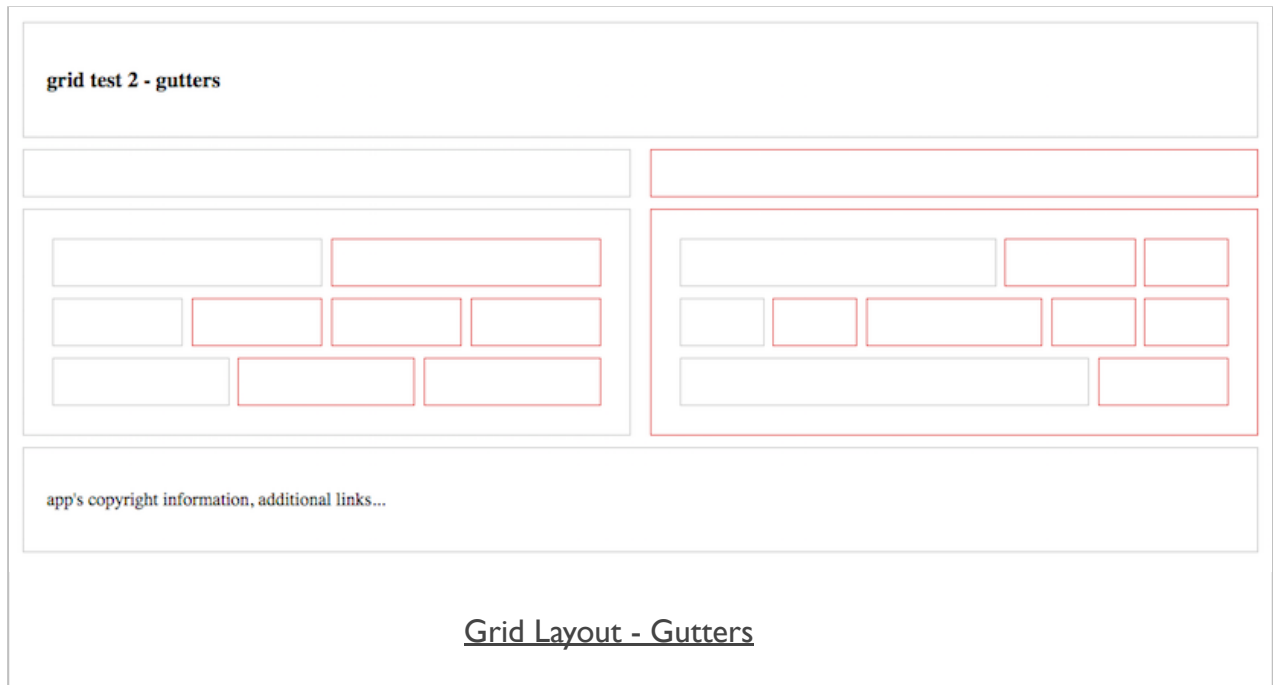
grid.css

- to fix this issue we recalculate permitted % widths for our columns in the CSS
 - *we now have % widths as follows*

```
.col-1 {width: 6.86%;}  
.col-2 {width: 15.33%;}  
.col-3 {width: 23.8%;}  
.col-4 {width: 32.26%;}  
.col-5 {width: 40.73%;}  
.col-6 {width: 49.2%;}  
.col-7 {width: 57.66%;}  
.col-8 {width: 66.13%;}  
.col-9 {width: 74.6%;}  
.col-10 {width: 83.06%;}  
.col-11 {width: 91.53%;}  
.col-12 {width: 100%;}
```

DEMO - Grid Layout 2 - gutters

Image - Grid Layout 3



CSS grid layout - part 8

media queries

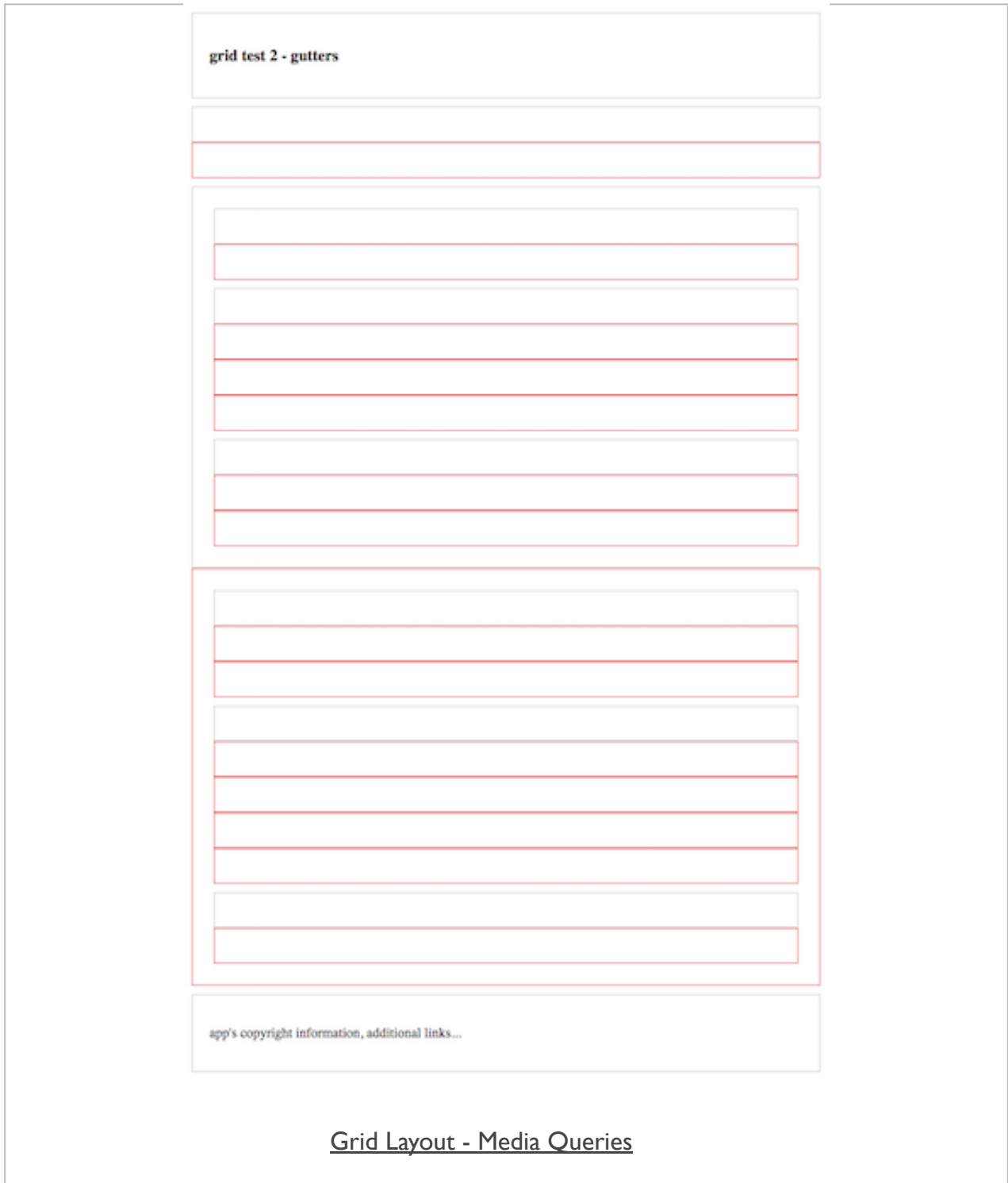
- often need to consider a mobile-first approach
- introduction of CSS3, we can now add **media queries**
- modify specified rulesets relative to a given condition
 - eg: screen size for a desktop, tablet, and phone device
- media queries allow us to specify a breakpoint in the width of the viewport
 - will then trigger a different style for our application
- could be a simple change in styles
 - such as colour, font etc
- could be a modification in the grid layout
 - effective widths for our columns per screen size etc...

```
@media only screen and (max-width: 900px) {  
  [class*="col-"] {  
    width: 100%;  
  }  
}
```

- gutters need to be removed
 - specifying widths of 100% for our columns

```
[class*="col-"] + [class*="col-"] {  
  margin-left:0;  
}
```

Image - Grid Layout 4



HTML5, CSS, & JS - example - part I

add grid layout

- update the layout of our Travel Notes application to include a grid layout
- apply this grid layout to the overall application
 - *organisation and presentation of the notes*
- remove the centred, fixed width for the body in our style.css stylesheet
- removes centre styling, results in content spanning full width of browser window
- add the grid layout to help us control this layout

```
<link rel="stylesheet" type="text/css" href="assets/styles/grid.css">
```

- then modify content categories, child elements to use new grid css

```
<!-- document header -->
<header>
  <div class="row">
    <div class="col-5">
      <h3>travel notes</h3>
      <h5>record notes from various places visited...</h5>
    </div>
    <div class="col-7"></div>
  </div>
</header>
```

Image - HTML5, CSS, & JS - grid layout

<div><div>travel notes</div><div>record notes from various places visited...</div></div>	
<div><div>add note</div><div><div></div><div>add</div></div></div>	
<div>app's copyright information, additional links...</div> <div>Grid Layout - Updated Header</div>	

HTML5, CSS, & JS - example - part 2

add grid layout

- update our main content to position the note-input and note-controls

```
<!-- note input -->
<section class="note-input">
  <div class="row">
    <div class="col-12">
      <h5>add note</h5>
      <input><button>add</button>
    </div>
  </div>
</section>
<!-- note controls for delete... -->
<section class="note-controls">
  <div class="row">
    <div class="col-12">
      <button id="notes-delete">Delete all</button>
    </div>
  </div>
</section>
```

- still need to amend style.css to remove additional fixed styling

Image - HTML5, CSS, & JS - grid layout 2

travel notes

record notes from various places visited...

add note

add

Delete all

note

app's copyright information, additional links...

Grid Layout - mixed grid and fixed

HTML5, CSS, & JS - example - part 3

add grid layout

- fix mixed rendering by removing width, margin, and padding for `.note-controls`

```
/* note controls */  
.note-controls {  
  border-bottom: 1px solid #dedede;  
  display: none;  
}
```

- continue to update Travel Notes app
 - *modify output for notes*
 - *add further options for users*

DEMO - Travel Notes - grid layout with media queries

HTML5, CSS, & JS - example - part 4

add flex to grid layout

- an additional option to consider - flex layouts
 - *a recent W3 working draft*
 - *aims to provide efficient way to align and proportion content*
- known as **Flexbox Layout**
 - *idea is to apportion width and height for content*
 - *proportions relative to container even when their size is unknown or dynamic*
- flex layout could, in theory, replace a full grid layout
 - *considered more a complement to overall grid structure*
- defined flex container expands items to fill the container's available space
 - *can also shrink them to prevent any possible overflow*
- think of a flex layout as supporting multiple directions
 - *direction agnostic*
- many properties available for **flex**
 - *focus upon styling flex container and any flex items*

HTML5, CSS, & JS - example - part 5

add flex to grid layout

- we might specify CSS properties for a flex container

```
.flex-container {  
display: flex; /* defines container as flex */  
flex-direction: row; /* defines positioning of items added to container */  
flex-wrap: wrap; /* defines whether to wrap items to another line */  
justify-content: flex-start; /* defines start point and distribution of items */  
}
```

- allows us to position our container starting at the left
 - *items contained in a row*
 - *contained items wrapping to additional lines if necessary*
- many additional options available for each property
- also add rulesets for specific styling of items within a flex container
- we could add properties to a flex item such as
 - *specify the order of the flex items*
 - *whether a particular item can grow or shrink relative to content*
 - *default size of an item before any remaining space is distributed*
 - *individual alignment for a given item...*

HTML5, CSS, & JS - example - part 6

add flex to notes

- flex container and items useful for organising and positioning our notes
- due to uncertainty about content, size, and general note requirements
 - *flex positioning and styling removes the need for assumptions or fixed sizes*
- we can start to modify the styling and rendering of our notes using flex

```
/* flex item */  
.flex-item {  
  flex-basis: 300px; /* default size before extra */  
  flex-grow: 1; /* all items will be equal */  
}
```

- gives us a default smallest size for each note
- then the ability for each note to grow to fill the row as required
- also work with responsive layouts
 - *due to the minimum size and the option to grow for each item*
 - *and wrap flex items per flex container*
- modify and update styles as we develop travel notes app

DEMO - Travel Notes - grid layout with flex notes

Image - HTML5, CSS, & JS - Flex Notes

travel notes

record notes from various places visited...

menu...

search...

add note

add

Delete all

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app's copyright information, additional links...

Grid Layout - flex notes

Image - HTML5, CSS, & JS - Flex Notes 2

travel notes

record notes from various places visited...

menu...

search...

add note

add

Delete all

cannes

nice

monaco

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app's copyright information, additional links...

Grid Layout - flex notes - medium

Image - HTML5, CSS, & JS - Flex Notes 3

travel notes

record notes from various places visited...

menu...

search...

add note

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Grid Layout - flex notes - small

HTML5, CSS, & JS - example - part 7

add flex to notes

Notes with Flex and Media Queries

Demos

Travel notes app - part 1

- DEMO 3 - travel notes - part 1 - demo 3
- DEMO 4 - travel notes - part 1 - demo 4
- DEMO 5 - travel notes - part 1 - demo 5
- DEMO 6 - travel notes - part 1 - demo 6

Travel Notes app - part 2

- DEMO 1 - Travel Notes - part 2 - demo 1
- DEMO 2 - Travel Notes - part 2 - demo 2

AJAX demos

- DEMO-AJAX1 - AJAX - week 9 - demo 1
- DEMO-AJAX2 - AJAX - week 9 - demo 2

Extra demos

- DEMO Squares
- Grids
 - *Grids 1 - Grid*
 - *Grids 2 - Grid 2 with gutters*

References

JavaScript & Libraries

- [jQuery](#)
- [jQuery API](#)
- [jQuery - .getJSON\(\)](#)
- [jQuery :parent selector](#)
- [JSLint - JavaScript Validator](#)
- [JSONLint - JSON Validator](#)
- [JSONP](#)
- [W3 - CSS Flexible Box Layout Module I](#)
- [W3 - JS Object](#)
- [W3 - JS Performance](#)