

Fluency Review

This is a full pdf updated with all of my lessons.

Click on a lesson to go to the page.

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Full Credit

Revised

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Name: Kirk Mortenson

Week 5

Lesson 1

Coding Topic: JavaScript - Loops, Conditional Statements, Functions, Variables, Parameters, Arrays, and Associative Arrays.

Description of Understanding: This is a topic I am familiar with I've done some basic coding to show my understanding of how Loops, Conditional Statements, Functions, Variables, are used the functions utilize parameters and I show my understanding of Arrays and objects forming Associative Arrays.

In the teaching video, I was using my original format of just code. I changed my format to a website instead of individual code and added more coding on arrays and associative arrays to round out my fluency and use of loops.

I'm using CodePen to embed my code on the website. This allows you to look at the JavaScript, the CSS, and the HTML as well as the result. You can use the buttons at the top of the form to toggle through the items or click on the EDIT on CodePen icon on the right top of the form to open to a full-screen version.

Teaching Video: [Zoom JavaScript Teaching Video link](#)

Starting at: Video is the full lesson

Also integrated with: I am utilizing JavaScript in many of the other lessons currently submitted JSON and Manipulating Class properties as well as the navigation menu of the website.

File	Website link	What should I be looking for?	Sandbox or Your code?
Website JavaScript Page	https://kmortenson.github.io/kmortenson.github.io/CIT-261-Mobile-Application-Development/javascript.html	Lesson 1 functions utilizing various JavaScript code	My code

Name: Kirk mortenson

Week

Lesson 2

Coding Topic: JavaScript Objects - Object Creation Functions, Inheritance, Properties, Methods, Instantiation

Description of Understanding:

It's funny when I first learned JavaScript, I didn't think of it as an Object-Oriented language but as I am working through this lesson, I have been reading a lot and comparing it to the other OOP languages I have learned. Now I have a better understand about creating objects as well as inheritance and Instantiation in relation to JavaScript.

In this lesson I have created objects in different ways to demonstrate.

Teaching Video: None

Starting at:

Also Integrated with:

File	Git Link	What should I be looking for?	Sandbox or Your code?
Website JavaScript Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/javascript.html	Lesson 2	My code

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Name: Kirk Mortenson

Week 6

Lesson 3

Coding Topic: JSON parse and Stringify

Description of Understanding: Parse and Stringify operations are fairly basic. I have used JSON for Web design and in applications to store data in languages like Java, JavaScript, and C#. Putting together the lesson for the class I reached out to multiple websites and books to see if there was any additional information I could insert into the lesson. I learned a lot more about the JSON file system but I decided to keep the lesson focused on Parse and Stringify to remain on scope.

I'm using CodePen to embed my code on the website. This allows you to look at the JavaScript, the CSS, and the HTML as well as the result. You can use the buttons at the top of the form to toggle through the items or click on the EDIT on CodePen icon on the right top of the form to open to a full-screen version.

Teaching Video: [Zoom JSON video lesson](#)

Starting at: Video is the full lesson

Also Integrated with:

File	Website Link	What should I be looking for?	Sandbox or Your code?
Website JSON Page	https://kmortenson.github.io/kmortenson.github.io/CIT-261-Mobile-Application-Development/json.html	Lesson 3 first lesson on the page	My code

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Name: Kirk Mortenson
Week 7

Lesson 4

Coding Topic: AJAX requesting a JSON file

Description of Understanding: I've used AJAX in JavaScript for web design as well as C# for data and Java. I like how streamlined using AJAX is having it able to update without reloading the page. In this function, I wanted to use an external source. I found an interesting site called IPinfo.io and utilized the JSON it produces. I still did a bit of reading to round out my knowledge and to better understand how Ajax works.

I'm using CodePen to embed my code on the website. This allows you to look at the JavaScript, the CSS, and the HTML as well as the result. You can use the buttons at the top of the form to toggle through the items or click on the EDIT on CodePen icon on the right top of the form to open to a full-screen version.

Teaching Video:

Starting at:

Also Integrated with:

File	Git Link	What should I be looking for?	Sandbox or Your code?
Website JSON Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/json.html	Lesson 4 second lesson on the page	My code

Name: Kirk Mortenson
Week

Lesson 5

Coding Topic: Local Storage API, Storing and Retrieving Simple Data, Arrays, Associative Arrays, and Objects

Description of Understanding: I have used local storage in the past for many programs. This lesson has rounded out my understanding of it and let me play with multiple data types with the code I wrote. I could have left the first box out but I wanted to show basic storage with a coded key, opposed to the second box that allows you to set the key. It's a good demonstration with the understanding that you can automate the process to store the data as well.

I added an additional section storing an Object. Sorry I missed it the first time. I specifically created the displays with and without Stringify to show the content and that is an object in memory. I verified the contents in the console.

Teaching Video:

Starting at:

Also Integrated with:

File	Git Link	What should I be looking for?	Sandbox or Your code?
HTML Website Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/html.html	Lesson 5 Local Storage	My code

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Name: Kirk Mortenson
Week

Lesson 6

Coding Topic: DOM Manipulation Using createElement, appendChild, insertBefore, removeChild, etc.

I've used limited DOM Manipulation in other programs but with this assignment I wanted to learn more. I checked out some books from the library, I looked through MDN, W3 and reviewed some videos on the subject. I learned quite a bit. I created a quick program to show basic editing of elements there are many more ways to manipulate the DOM pull information and many other things one I want to look into is DOM Geolocation.

Description of Understanding:

Teaching Video: no video

Starting at:

Also Integrated with:

File	Git Link	What should I be looking for?	Sandbox or Your code?
HTML Website Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/html.html	Lesson 6	My code

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Name: Kirk Mortenson
Week 7

Lesson 7

Coding Topic: Manipulating CSS Class Properties Using JavaScript

Description of Understanding: I've used this in some of my web designs so I put together a quick bit of code that just changes the CSS class from one to another. I referenced a few websites and books and there is a lot you can do with JavaScript and CSS and changing HTML but changing the class is pretty simple. I am currently putting the PowerPoint together for class next week. I'll resubmit the page when I have the lesson Video.

I'm using CodePen to embed my code on the website. This allows you to look at the JavaScript, the CSS, and the HTML as well as the result. You can use the buttons at the top of the form to toggle through the items or click on the EDIT on CodePen icon on the right top of the form to open to a full-screen version.

Teaching Video: [Zoom Teaching Video](#)

Starting at: video is the full lesson

Also Integrated with:

File	Website Link	What should I be looking for?	Sandbox or Your code?
Website JavaScript Page	https://kmortenson.github.io/kmortenson.github.io/CIT-261-Mobile-Application-Development/javascript.html	Lesson 7 functions Manipulating CSS Class Properties	My code

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Name: Kirk Mortenson
Week

Lesson 8

Coding Topic: Creating CSS3 Transitions and Animations in CSS and triggering them with JavaScript.

Description of Understanding: While creating the Transitions and Animation pages I was looking for ways I could adding JavaScript controls. I read through many of my text as well as searched out information on web docs and stack overflow. I also looked and some code from various applications I found on the web. Although I went with a simple solution, I studied some very interesting code.

Teaching Video:

Starting at:

Also Integrated with:

Lesson11

Designing, Defining and Triggering CSS3 Transitions without Custom Libraries

Lesson 13

Designing, Defining and Triggering CSS3 Animations without Custom Libraries

File	Git Link	What should I be looking for?	Sandbox or Your code?
Website CSS Page	https://kmortenson.github.io/kmortenson.github.io/CIT-261-Mobile-Application-Development/cssPrograms.html	Lesson 11 fade and return buttons	My code
Website CSS Page	https://kmortenson.github.io/kmortenson.github.io/CIT-261-Mobile-Application-Development/cssPrograms.html	Lesson 13 stop and start buttons	My code

Name: Kirk Mortenson
Week

Lesson 9

Coding Topic: Standard JavaScript Events Including those for Mobile Devices (Ex. onTouchBegin, onLoad, etc.) and Animation and Transition Events

Description of Understanding: I utilized my previous lesson and added to it to create the Events for mobile, animation and transitions as well as mouse. Many of the events that I studied were very similar in structure so I believe I have a great understanding of many of the events. During my studies I read over a massive list of events and CSS that can be utilize by them. This is a very powerful tool. I had a lot of fun messing with various event handlers and decided to integrate them with my existing code.

Teaching Video: No Video

Starting at:

Also Integrated with: Transitions, Transforms and Animations. But separate code.

File	Git Link	What should I be looking for?	Sandbox or Your code?
9.1	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/javascript.html	Events	My code
9.2	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/javascript.html	Mobile device	My code

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Name: Kirk Mortenson

Week 8

Lesson 10

Coding Topic: HTML5 Tags - Video, Audio, and Canvas

Description of Understanding: this is the first time I have utilized video, audio or Canvas.

Utilizing the tags to import the files and understanding the controls as well as the file formats utilized by various web browsers, I found a great list on MDN. I MP4 and OGG for Video and MP3, OGG and WAV for the Audio. I realized my video clip didn't have Audio but I think the Audio clip goes well with the video.

I took the lesson primarily as utilizing the audio and video tags I utilized some of the control's parameters like preloading and loop but with preloading, I understand the browser can override your request.

Canvas is huge I like the flexibility of just creating an image utilizing code, I can geek out on this because I do a lot of work in CAD and G code. But the ability to insert images and even video into the canvas space is really neat. Of my stack of books from the library, many have full chapters on Canvas and one book is just about Canvas.

I'm using CodePen to embed my code on the website. This allows you to look at the JavaScript, the CSS, and the HTML as well as the result. You can use the buttons at the top of the form to toggle through the items or click on the EDIT on CodePen icon on the right top of the form to open to a full-screen version.

Teaching Video: [zoom lesson 10 video HTML5 Tags](#)

Starting at: Full Video

Also Integrated with:

File	Website Link	What should I be looking for?	Sandbox or Your code?
Website HTML Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/html.html	Lesson 10 HTML5 Tags	My code

Name: Kirk Mortenson
Week 9

Lesson 11

Coding Topic: Designing, Defining and Triggering CSS3 Transitions without Custom Libraries

Description of Understanding: This was a lot of fun I used multiple sources for information like the CSS Definitive guide W3 schools and MDN docs. I also watched a few videos for additional information. I utilized some basic transitions to manipulate the CSS div in a hover over and then added the fade and return buttons for opacity to trigger the Transition with JavaScript for lesson 8. I utilized most of the Transition properties and these can be used on various CSS properties. I now understand and can apply these transitions.

Teaching Video: No Video

Starting at:

Also Integrated with: Creating CSS3 Transitions and Animations in CSS and triggering them with JavaScript.

File	Git Link	What should I be looking for?	Sandbox or Your code?
Website CSS Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/cssPrograms.html	Lesson 11	My code

Name: Kirk Mortenson
Week 9

Lesson 12

Coding Topic: Designing, Defining and Triggering CSS3 Transforms without Custom Libraries

Description of Understanding: This was a lot of fun as well, I used multiple sources for information like the CSS Definitive guide W3 schools and MDN docs. I also watched a few videos for additional information. I utilized many of the Transforms to manipulate the multiple div containers utilizing a hover. The application of one is very similar to the others. I didn't get into the 3D versions in my code but I understand how they work.

Again, my CAD geek was on full, thinking about how I could utilize these in programs.

I now understand and can apply these Transforms.

Teaching Video: No Video

Starting at:

Also Integrated with:

File	Git Link	What should I be looking for?	Sandbox or Your code?
Website CSS Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/cssPrograms.html	Lesson 12	My code

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Name: Kirk Mortenson
Week

Lesson 13

Coding Topic: Designing, Defining and Triggering CSS3 Animations without Custom Libraries

Description of Understanding: I used the properties CSS Animation with Transitions and Transforms to create an animation. I have done a lot of reading and had a lot of fun with the animations I think I have some ideas for the final project. I actually built multiple animations just messing around. Realizing in need to move on to other assignments so I settled on one the used all of the CSS I've been learning. I put in some Java script to control the animation to fulfill lesson 8 as well.

Teaching Video: No Video

Starting at:

Also Integrated with: Creating CSS3 Transitions and Animations in CSS and triggering them with JavaScript.

File	Git Link	What should I be looking for?	Sandbox or Your code?
Website CSS Page	https://kmortenson.github.io/kmortenson.github.io//CIT-261-Mobile-Application-Development/cssPrograms.html	Lesson 13	My code