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W2 Advanced Grid / Subgrid

Print

Starts Jan 12, 2025 11:59 PM

This week we will refine our CSS Grid skills, focussing on the following topics:

- grid's various alignment & justification properties
- grid and z-index: positioning without positioning
- subgrid
- named grid areas

Class Exercise 1: Advanced Grid Workout (Density 2024)

Link

In this class exercise, we will explore the use of the following things:

- grid-auto-flow
- subgrid
- wider color gamuts than sRGB

Class Exercise 2: Faces Grid 2025

Link

This exercise or class demo will cover the following topics:

- named grid lines
- subgrid
- javascript setInterval for looping animation, do...while, etc

It will also briefly introduce blend modes, but grid and subgrid will be the main focus here.

Blend modes will be covered in greater detail later in the term.

Videos: Density 2025 Advanced Grid Properties, Step by Step

Link

A step by step video series taking you through the first exercise we did in class today.

It will serve as a good introduction to the following things:

- grid line numbers
- grid-auto-flow
- subgrid
- css selector nesting
- css media query nesting
- and more

Videos: Faces 2025 Layout, Step by Step by Step

Link

Starts Jan 12, 2025 9:30 AM

This video series will take you through the complex **Faces 2025** we will likely do in class, if time permits.

Otherwise, please code along with this series on your own time.

Wk2 Grid Layout: The Eatery

Assignment

Overdue - January 21 at 9:30 AM

Available on Jan 12, 2025 12:01 AM. Access restricted before availability starts.

For this exercise, please go to this page on my teaching site:

https://wrmf.ca/posts/the-eatery-restaurant-menu-wmdd4835-2020-responsive-page/

This page has starter files to download, descriptions of each section in the page you will build, and a link to a short movie describing the behaviour of the page.

Instructions on how to hand the project in are also included there.

Class Exercise 3: JazzIcons Advanced CSS

Feedback icon

FINAL EXAM

CSS Color In Depth
(Optional Module)

Tailwind Framework
(Optional Module)

SASS: Syntactically
Awesome Style Sheets
(Optional Module)



Link

In this exercise, we will investigate

- Visual Studio Code selection efficiencies
- CSS Nesting
- Grid Alignment Properties
- CSS Custom Properties
- The CSS Color-Mix Function
- and more...

There is also a Loom video series (link available further down on this page) covering most of what we do in this exercise.

Friends of Subgrid Layout Demonstration



Link

This is a very short but focussed demonstration of using Subgrid to make **wildly varied content** line up and look organized.

The techniques used here will be helpful in parts of The Eatery assignment.

Loom Videos: CSS Subgrid



Link

A series of videos on CSS Subgrid, which gives parent elements the ability to arrange not just children, but grandchildren, great-grandchildren, and so on, all using the same grid.

Subgrid is now deemed to be part of **Baseline 2023**, meaning that it is available across all major browsers.

In the video series, I might have mentioned it having only a small percentage of the market: that's only because at the time I recorded the videos, subgrid was supported only by Firefox and Safari (unlike now).

I have added a Subgrid component to this week's exercise. In The Eatery, you will need to use Subgrid in the STAFF and the BLOG sections.

Loom Videos: Grid Auto-Fit & Auto-Fill in Action



Link

This video series creates a front page layout that leverages the following advanced grid properties:

- Auto-Fit
- Auto-Fill
- Align-items
- Justify-Content / Justify Items
- MinMax() employed in repeat function

In addition, it discusses the following important subjects

- Creating responsive typography with **clamp()**
- Creating interesting background patterns

Optional Loom Videos: Advanced Grid Properties



Link

I have posted a in-depth series of short Loom videos about more advanced Grid Properties.

The early videos will help with the Eatery exercise

Later videos discuss some very powerful Grid properties.

Video 6 discusses the easiest way (by far) of perfectly centering elements vertically and horizontally.

Videos 7 and 8 discuss using Grid like CSS positioning.

Videos 9 & 10 discuss grid's auto-flow and auto-fit properties, which are insanely powerful tools that can create magic layouts.

Loom Videos: CSS Custom Properties



Link

I've included this video series in case you have not used CSS Custom Properties (aka CSS variables) before.

I suspect that most of you have, however.

Feel free to skip this series if you've used Custom Properties before.

Loom Videos: JazzIcons StepByStep





 Link


This video series will take you through the JazzIcons exercise we did in class.

It contains a lot of precise work with CSS grid.

The last three videos of the series demonstrate how to use the amazing new color-mix function in CSS.

Solution Videos for W2 The Eatery

 Link

 Starts Jan 21, 2025 10:00 AM