BUILDING WITH MEANINGFUL CLASS NAMES

THINK → **BUILD** → ARCHITECT

BEM

- **B**lock **E**lement **M**odifier
- **BLOCK**: standalone component that is meaningful on its own.
- **ELEMENT**: part of a block that has no standalone meaning.
- **MODIFIER**: a different version of a block or an element.

```
.block {}
.block__element {}
.block__element--modifier {}
```

Low-specificity BEM selectors

```
<figure class="recipe">
  <div class="recipe__hero">
    <img class="recipe__img" src="
  </div>
  <div class="recipe__info">
    <div class="recipe__category">
      Veggie
    </div>
    <figcaption class="recipe__details">
      <h2 class="recipe__title">Pizza Vegetale 👌</h2>
      <p class="recipe__description">
        Yummy veggie pizza with tasty olives
      </p>
    </figcaption>
    <div class="recipe__stats-box">
      <div class="recipe__stat">
        <span class="recipe__stat-value">4.9</span>
        <span class="recipe__stat-name recipe__stat-name--1">Stars</span>
      </div>
      <div class="recipe__stat">
        <span class="recipe__stat-value">45</span>
        <span class="recipe__stat-name recipe__stat-name--2">Minutes</span>
      </div>
      <div class="recipe__stat">
        <span class="recipe__stat-value">2</span>
        <span class="recipe__stat-name recipe__stat-name--3">Persons</span>
      </div>
    </div>
  </div>
  <a class="recipe__btn btn btn--round" href="#">Try</a>
</figure>
```

ARCHITECTING WITH FILES AND FOLDERS

THINK → BUILD → ARCHITECT

THE 7-1 PATTERN

7 different folders for partial Sass files, and
1 main Sass file to import all other files into
a compiled CSS stylesheet.

THE 7 FOLDERS

- base/
- components/
- layout/
- pages/
- themes/
- abstracts/
- vendors/

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HOW CSS WORKS: A LOOK BEHIND THE SCENES

LECTURE

IMPLEMENTING BEM IN THE NATOUR PROJECT

WHAT YOU WILL LEARN IN THIS LECTURE

- How to use the BEM method in practice.

SECTION 4 – INTRODUCTION TO SASS AND NPM

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WHAT IS SASS?

WHAT IS SASS AND HOW DOES IT WORK?

SASS

Sass is a CSS preprocessor, an extension of CSS that adds power and elegance to the basic language.

SASS SOURCE CODE → (Sass compiler) → COMPILED CSS CODE

MAIN SASS FEATURES

- **Variables**: for reusable values such as colors, font-sizes, spacing, etc;
- **Nesting**: to nest selectors inside of one another, allowing us to write less code;
- **Operators**: for mathematical operations right inside of CSS;
- **Partials and imports**: to write CSS in different files and importing them all into one single file;
- **Mixins**: to write reusable pieces of CSS code;
- **Functions**: similar to mixins, with the difference that they produce a value that can than be used;
- **Extends**: to make different selectors inherit declarations that are common to all of them;
- **Control directives**: for writing complex code using conditionals and loops (not covered in this course).

SASS AND SCSS: CLEARING UP THE CONFUSION

Sass syntax

```
.navigation
  list-style: none
  float: left

  & li
    display: inline-block
    margin-left: 30px
```

SCSS syntax

```
.navigation {
  list-style: none;
  float: left;

  & li {
    display: inline-block;
    margin-left: 30px;
  }
}
```

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A BRIEF INTRODUCTION TO THE COMMAND LINE

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NPM PACKAGES: LET'S INSTALL SASS LOCALLY

A BRIEF INTRODUCTION TO NPM AND THE NODE ECOSYSTEM

Allows developers to write and run JavaScript applications on the server. Developers started using node.js to also write tools to help them with **local web development**.

NPM is a simple command line interface that allows developers to **install and manage packages** on their local computers. There are all kinds of open-source **tools, libraries and frameworks** needed for modern development. Modern web development could simply not exist without a package manager.

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NPM SCRIPTS: LET'S WRITE AND COMPILE SASS LOCALLY

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THE EASIEST WAY OF AUTOMATICALLY RELOADING A PAGE ON FILE CHANGES

SECTION 5 – NATOURS PROJECT PART 2

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CONVERTING OUR CSS CODE TO SASS: VARIABLES AND NESTING

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IMPLEMENTING THE 7-1 CSS ARCHITECTURE WITH SASS

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REVIEW: BASIC PRINCIPLES OF RESPONSIVE DESIGN AND LAYOUT TYPES

REVIEW: BASIC RESPONSIVE DESIGN PRINCIPLES

1

FLUID GRIDS AND LAYOUTS

To allow content to easily adapt to the current viewport width used to browse the website. Uses `%` rather than `px` for all layout-related lengths.

2

FLEXIBLE/RESPONSIVE IMAGES

Images behave differently than text content, and so we need to ensure that they also adapt nicely to the current viewport.

3

MEDIA QUERIES

To change styles on certain viewport widths (breakpoints), allowing us to create different version of our website for different widths.

LAYOUT TYPES

THIS PROJECT

FLOAT LAYOUTS

2ND PROJECT

FLEXBOX

3RD PROJECT

CSS GRID

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LECTURE

BUILDING A CUSTOM GRID WITH FLOATS

WHAT YOU WILL LEARN IN THIS LECTURE

- How to architect and build a simple grid system;
- How the attribute selector works;
- How the `:not` pseudo-class works;
- How `calc()` works, and what's the difference between `calc()` and simple Sass operations.

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LECTURE

BUILDING THE ABOUT SECTION - PART 1

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WHAT YOU WILL LEARN IN THIS LECTURE

- Thinking about components;
- How and why to use utility classes;
- How to use the `background-clip` property;
- How to `transform` multiple properties simultaneously;
- How to use the `outline-offset` property together with `outline`;
- How to style elements that are NOT hovered while others are.

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LECTURE

BUILDING THE FEATURES SECTION

WHAT YOU WILL LEARN IN THIS LECTURE

- How to include and use an icon font;
- Another way of creating the “skewed section” design;
- How and when to use the direct child selector.

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LECTURE

BUILDING THE TOURS SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to build an amazing, rotating card;
- How to use `perspective` in CSS;
- How to use the `backface-visibility` property;
- Using background blend modes;
- How and when to use `box-decoration-break`;

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LECTURE

BUILDING THE STORIES SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to make text flow around shapes with `shape-outside` and `float`;
- How to apply a `filter` to images;
- How to create a background video covering an entire section;
- How to use the `<video>` HTML element;
- How and when to use the `object-fit` property.

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LECTURE

BUILDING THE BOOKING SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to implement “solid-color gradients”;
- How the general and adjacent sibling selectors work and why we need them;
- How to use the `::input-placeholder` pseudo-element;
- How and when to use the `:focus`, `:invalid`, `placeholder-shown` and `:checked` pseudo-classes;
- Techniques to build custom radio buttons.

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BUILDING THE FOOTER

WHAT YOU WILL LEARN IN THIS LECTURE

- How to design a simple website footer.

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BUILDING THE NAVIGATION – PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- What the “checkbox hack” is and how it works;
- How to create custom animation timing functions using cubic bezier curves;
- How to animate “solid-color gradients”;
- How and why to use `transform-origin`;
- In general: create an amazingly creative effect!

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BUILDING THE NAVIGATION – PART 2

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LECTURE

BUILDING A PURE CSS POPUP - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to build a nice popup with only CSS;
- How to use the `:target` pseudo-class;
- How to create boxes with equal height using `display: table-cell`;
- How to create CSS text columns;
- How to automatically hyphenate words using `hyphens`.

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SECTION 6 – NATOURS PROJECT PART 3

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NATOURS PROJECT - ADVANCED RESPONSIVE DESIGN (PART 3)

LECTURE

MOBILE-FIRST VS DESKTOP-FIRST AND BREAKPOINTS

RESPONSIVE DESIGN STRATEGIES

```
html { font-size: 20px; }
@media (max-width: 600px) {
  html { font-size: 16px; }
}
```

DESKTOP-FIRST

- Start writing CSS for the desktop: large screen;
- Then, media queries shrink design to smaller screens.

MOBILE-FIRST

- Start writing CSS for mobile devices: small screen;
- Then, media queries expand design to a large desktop screen;
- Forces us to reduce websites and apps to the absolute essentials.

```
html { font-size: 16px; }
@media (min-width: 600px) {
  html { font-size: 20px; }
}
```

RESPONSIVE DESIGN STRATEGIES: MAX-WIDTH AND MIN-WIDTH

Media queries don't add any importance or specificity to selectors, so code order matters — **media queries at the end**

IS MOBILE-FIRST RIGHT FOR YOU?

PROS

- 100% optimised for the mobile experience;
- Reduces websites and apps to the absolute essentials;
- Results in smaller, faster and more efficient products;
- Prioritizes content over aesthetic design, which may be desirable.

CONS

- The desktop version might feel overly empty and simplistic;
- More difficult and counterintuitive to develop;
- Less creative freedom, making it more difficult to create distinctive products;
- Clients are used to see a desktop version of the site as a prototype;
- Do your users even use the mobile internet? What's the purpose of your website?

NO MATTER WHAT YOU DO, ALWAYS KEEP BOTH DESKTOP AND MOBILE IN MIND

SELECTING OUR BREAKPOINTS: THE OPTIONS

BAD

GOOD

PERFECT

SELECTING OUR BREAKPOINTS: A GOOD APPROACH

[http://gs.statcounter.com/screen-resolution-stats#monthly-201608-201708-bar]

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LET'S USE THE POWER OF SASS MIXINS TO WRITE MEDIA QUERIES

WHAT YOU WILL LEARN IN THIS LECTURE

- How to use a powerful Sass mixing to write all our media queries;
- How to use the `@content` and `@if` Sass directives;
- Taking advantage of Chrome DevTools for responsive design.

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WRITING MEDIA QUERIES - BASE, TYPOGRAPHY AND LAYOUT

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WRITING MEDIA QUERIES - LAYOUT, ABOUT AND FEATURES SECTIONS

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WRITING MEDIA QUERIES - TOURS, STORIES AND BOOKING SECTIONS

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NATOURS PROJECT – ADVANCED RESPONSIVE DESIGN (PART 3)

LECTURE

AN OVERVIEW OF RESPONSIVE IMAGES

WHAT ARE RESPONSIVE IMAGES ANYWAY?

Responsive design

Maintainable and scalable code

Web performance

RESPONSIVE IMAGES

The goal of responsive images is to serve the **right image** to the **right screen size** and device, in order to avoid downloading unnecessary large images on smaller screens.

WHEN TO USE RESPONSIVE IMAGES: THE 3 USE CASES

RESOLUTION SWITCHING

Large screen

Small screen

(Decrease image resolution on smaller screen)

DENSITY SWITCHING

@2x screen (high-res)

@1x screen (low-res)

(Half the image resolution on @1x screen)

ART DIRECTION

Large screen

Small screen

Image details were preserved, but the image is different

(Different image on smaller screen)

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NATOURS PROJECT - ADVANCED RESPONSIVE DESIGN (PART 3)

LECTURE

RESPONSIVE IMAGES IN HTML - ART DIRECTION AND DENSITY SWITCHING

WHAT YOU WILL LEARN IN THIS LECTURE

- How to use the `srcset` attribute on the `<img>` and `<source>` elements, together with density descriptors;
- How and why to use the `<picture>` element for art direction;
- How to write media queries in HTML.

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LECTURE

RESPONSIVE IMAGES IN HTML - DENSITY AND RESOLUTION SWITCHING

WHAT YOU WILL LEARN IN THIS LECTURE

- How to allow the browser to decide the best image to download, using the `srcset` attribute, width descriptors, and the `sizes` attribute of the `<img>` element.

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RESPONSIVE IMAGES IN CSS

WHAT YOU WILL LEARN IN THIS LECTURE

- How to implement responsive images in CSS;
- How to use resolution media queries to target high-resolution screens with 2x.
- How to combine multiple conditions in media queries.

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LECTURE

TESTING FOR BROWSER SUPPORT WITH @SUPPORTS

WARNING!

MANY OF THE NEW CSS FEATURES I SHOWED YOU ARE HIGHLY EXPERIMENTAL AND ONLY WORK IN TOP MODERN BROWSERS

ALWAYS CHECK CANIUSE.COM BEFORE USING A MODERN CSS PROPERTY IN PRODUCTION

USE GRACEFUL DEGRADATION WITH @SUPPORTS

WHAT YOU WILL LEARN IN THIS LECTURE

- How to use `@supports` feature queries;
- Implement graceful degradation on selected properties;
- How to use `backdrop-filter`.

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SETTING UP A SIMPLE BUILD PROCESS WITH NPM SCRIPTS

A SIMPLE BUILD PROCESS

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WRAPPING UP THE NATOURS PROJECT: FINAL CONSIDERATIONS

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

WHY FLEXBOX: AN OVERVIEW OF THE PHILOSOPHY BEHIND FLEXBOX

A TRUE REVOLUTION

FLEXBOX

- Flexbox is a new module in CSS3 that makes it easy to align elements to one another, in different directions and orders;
- The main idea behind flexbox is to give the container the ability to expand and to shrink elements to best use all the available space;
- Flexbox replaces float layouts, using less, and more readable and logical code;
- Flexbox completely changes the way that we build one-dimensional layouts;
- A true revolution in CSS!

MAIN FLEXBOX CONCEPTS

```
display: flex
```

(display: flex-inline)

FLEXBOX PROPERTIES OVERVIEW

CONTAINER

1. **flex-direction: row** | row-reverse | column | column-reverse
2. **flex-wrap: nowrap** | wrap | wrap-reverse
3. **justify-content: flex-start** | flex-end | center | space-between | space-around | space-evenly
4. **align-items: stretch** | flex-start | flex-end | center | baseline
5. **align-content: stretch** | flex-start | flex-end | center | space-between | space-around

ITEM

1. **align-self: auto** | stretch | flex-start | flex-end | center | baseline
2. **order: 0** | <integer>
3. **flex-grow: 0** | <integer>
4. **flex-shrink: 1** | <integer>
5. **flex-basis: auto** | <length>

flex: 0 1 auto | <int> <int> <len>

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A BASIC INTRO TO FLEXBOX: THE FLEX CONTAINER

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A BASIC INTRO TO FLEXBOX: FLEX ITEMS

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A BASIC INTRO TO FLEXBOX: ADDING MORE FLEX ITEMS

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PROJECT OVERVIEW

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

DEFINING PROJECT SETTINGS AND CUSTOM PROPERTIES

WHAT YOU WILL LEARN IN THIS LECTURE

- How and why to use CSS custom properties.

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE OVERALL LAYOUT

WHAT YOU WILL LEARN IN THIS LECTURE

- How to think about the overall layout of an app;
- Use flexbox in a real-world project for the first time.

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SECTION

TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE HEADER - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- Why to use SVG icons vs. font icons;
- How to find, generate and use SVG sprites in HTML;
- How to change the color of an SVG icon in CSS;
- How to use more advanced flexbox alignment techniques, including `justify-content`, `align-items`, `align-self` and `flex`.

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BUILDING THE HEADER - PART 2

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LECTURE

BUILDING THE HEADER - PART 3

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE NAVIGATION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to use `scaleY` and multiple transition properties with different settings, to create a creative hover effect;
- How and why to use the `currentColor` CSS variable;
- How to use some more advanced flexbox alignment techniques, including `flex-direction`, `justify-content` and `align-items`.

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BUILDING THE NAVIGATION - PART 2

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE HOTEL OVERVIEW - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to create an infinite animation;
- How to use `margin: auto` with flexbox, and why it's so powerful;
- Continue to use flexbox properties for easy positioning and alignment.

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BUILDING THE HOTEL OVERVIEW - PART 2

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE DESCRIPTION SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- Continue to use flexbox, including `flex-wrap` to build a multi-column list;
- How and why to use CSS masks with `mask-image` and `mask-size`.

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BUILDING THE DESCRIPTION SECTION - PART 2

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE USER REVIEWS SECTION

WHAT YOU WILL LEARN IN THIS LECTURE

- Continue using and practicing flexbox.

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

BUILDING THE CTA SECTION

WHAT YOU WILL LEARN IN THIS LECTURE

- Yet another creative and modern hover effect 😍

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

WRITING MEDIA QUERIES - PART 1

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WRITING MEDIA QUERIES - PART 2

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TRILLO PROJECT - MASTER FLEXBOX!

LECTURE

WRAPPING UP THE TRILLO PROJECT: FINAL CONSIDERATIONS

CHALLENGES, ANYONE?

1. Display some kind of user menu when hovering over the username in `.user-nav`;
2. Display a message menu when hovering over the chat icon in `.user-nav` (maybe like facebook);
3. Display a box with search suggestions as soon as the user starts typing in the search field;
4. Create a caption for the `.gallery__item` with a nice hover effect;
5. Make the page 100% responsive even for viewport sizes below 500px, maybe even responsive images.

SECTION 8 – CSS GRID INTRO

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SECTION INTRO

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A QUICK INTRODUCTION TO CSS GRID LAYOUTS

LECTURE

WHY CSS GRID: A WHOLE NEW MINDSET

A WHOLE NEW MINDSET

CSS GRID

- CSS Grid Layout is a brand new module that brings a two-dimensional grid system to CSS for the first time;
- CSS Grid replaces float layouts, using less, and more readable and logical CSS and HTML;
- CSS Grid works perfectly together with Flexbox, which is best to handle one-dimensional components and layouts;
- CSS Grid completely changes the way that we envision and build two-dimensional layouts.

A WHOLE NEW MINDSET

World's best luxury homes

Lorem, ipsum dolor sit amet consectetur adipisicing elit. Tenetur distinctio necessitatibus pariatur voluptatibus.

Only the best properties

Voluptatum mollitia quae. Vero ipsum sapiente molestias accusamus rerum sed a eligendi aut quia.

All homes in top locations

Tenetur distinctio necessitatibus pariatur voluptatibus quidem consequatur harum.

New home in one week

Vero ipsum sapiente molestias accusamus rerum. Lorem, ipsum dolor sit amet consectetur adipisicing elit.

Top 1% realtors

Quidem consequatur harum, voluptatum mollitia quae. Tenetur distinctio necessitatibus pariatur voluptatibus.

Secure payments on XXX

Pariatur voluptatibus quidem consequatur harum, voluptatum mollitia quae.

CSS GRID TERMINOLOGY

```
display: grid
```

(display: grid-inline)

CSS GRID TERMINOLOGY

CSS GRID PROPERTIES OVERVIEW

CONTAINER

1. grid-template-rows
   grid-template-columns
   grid-template-areas
   → grid-template

2. grid-row-gap
   grid-column-gap
   → grid-gap

3. justify-items
   align-items
   justify-content
   align-content

4. grid-auto-rows
   grid-auto-columns
   grid-auto-flow

ITEM

1. grid-row-start
   grid-row-end
   → grid-row
   grid-column-start
   grid-column-end
   → grid-column
   → grid-area

2. justify-self
   align-self

3. order

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QUICK SETUP FOR THIS SECTION

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CREATING OUR FIRST GRID

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GETTING FAMILIAR WITH THE FR UNIT

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POSITIONING GRID ITEMS

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SPANNING GRID ITEMS

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GRID CHALLENGE

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GRID CHALLENGE: A BASIC SOLUTION

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NAMING GRID LINES

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NAMING GRID AREAS

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IMPLICIT GRIDS VS. EXPLICIT GRIDS

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ALIGNING GRID ITEMS

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ALIGNING TRACKS

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A QUICK INTRODUCTION TO CSS GRID LAYOUTS

LECTURE

USING MIN-CONTENT, MAX-CONTENT AND THE MINMAX() FUNCTION

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A QUICK INTRODUCTION TO CSS GRID LAYOUTS

LECTURE

RESPONSIVE LAYOUTS WITH AUTO-FIT AND AUTO-FILL

SECTION 9 – NEXTER PROJECT – MASTER CSS GRID LAYOUTS!

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LECTURE

PROJECT OVERVIEW & SETUP

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SECTION

NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE OVERALL LAYOUT - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to build a complex and modern layout using advanced CSS Grid techniques;
- How to choose different row and column track sizes for different types of content.

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LECTURE

BUILDING THE OVERALL LAYOUT - PART 2

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE FEATURES SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How and why to create grids inside of grids;
- How to create a responsive component without media queries;
- How to build a small component using CSS Grid.

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BUILDING THE FEATURES SECTION - PART 2

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE STORY SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to deal with overlapping grid items;
- Why images are special and behave differently than other grid items;
- How to decide if flexbox is a better tool in certain situations.

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BUILDING THE STORY SECTION - PART 2

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE HOMES SECTION - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to build a rather complex component using a mix of CSS Grid properties, overlapping and flexbox.

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BUILDING THE HOMES SECTION - PART 2

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE GALLERY - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to create a complex grid-looking gallery;
- Using `object-fit` together with images for grid items.

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LECTURE

BUILDING THE GALLERY - PART 2

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE FOOTER

WHAT YOU WILL LEARN IN THIS LECTURE

- Apply the concepts you already learned.

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE SIDEBAR

WHAT YOU WILL LEARN IN THIS LECTURE

- Apply the concepts you already learned.

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NEXTER PROJECT - MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE HEADER - PART 1

WHAT YOU WILL LEARN IN THIS LECTURE

- How to manage vertical spacing in a responsive layout using CSS Grid techniques;
- How to use `::before` and `::after` as grid items.

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NEXTER PROJECT – MASTER CSS GRID LAYOUTS!

LECTURE

BUILDING THE REALTORS SECTION

WHAT YOU WILL LEARN IN THIS LECTURE

- Apply the concepts you already learned.

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WRITING MEDIA QUERIES - PART 1

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BROWSER SUPPORT FOR CSS GRID

SECTION 10 – THAT'S IT, EVERYONE!

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THAT'S IT, EVERYONE!

LECTURE

SEE YOU NEXT TIME, CSS MASTER!

END