

# Exercise 1

- Complete the following grid and flex tutorials: CSS Grid Garden Flex Froggy
- Complete all the levels
- Write a comparative table (pros and cons) between flexbox and grid
- Research about the best scenarios to use grid or flex



# Exercise 2: CSS Methodologies & SCSS

# **Learning Goals:**

- Understand and apply BEM, OOCSS, SMACSS, and SCSS
- Refactor existing spaghetti CSS into modular, maintainable code
- Practice writing reusable and scalable styles

#### **Scenario**

Your team has inherited a small project with unstructured HTML/CSS. You've been tasked to refactor the styles using modern methodologies and tools.



# **Project Description**

A **Team Members Section** with cards for each profile.

HTML:

```
<section class="team">
 <h2>Meet the Team</h2>
 <div class="card">
   <img src="https://www.w3schools.com/howto/img_avatar2.png" alt="Alice"</pre>
class="avatar">
   <h3 class="name">Alice</h3>
   Designer
   <button class="btn">Contact</button>
 </div>
 <div class="card">
   <img src="https://www.w3schools.com/howto/img_avatar.png" alt="Bob"</pre>
class="avatar">
   <h3 class="name">Bob</h3>
   Developer
   <button class="btn">Contact</button>
 </div>
</section>
```

CSS:

```
.card {
  border: 1px solid #ccc;
 padding: 15px;
  margin: 10px;
 text-align: center;
 width: 200px;
 display: inline-block;
}
.avatar {
 width: 80px;
 border-radius: 50%;
}
.name {
 font-size: 1.2em;
 margin: 10px 0;
}
.role {
 color: #777;
 font-style: italic;
}
.btn {
  background-color: #333;
 color: white;
 padding: 8px 12px;
 border: none;
 cursor: pointer;
}
```

## **Assignment Steps**

#### 1. Refactor to BEM

- a. Rename classes using BEM convention.
- **b.** Example: .card\_\_avatar, .card\_\_role, .card\_\_btn
- c. Consider modifiers: .card--featured, .btn--primary

#### 2. Apply OOCSS Principles

- a. Split structure and skin.
- **b.** Create reusable object classes like .media, .btn, .box
- c. Use classes like .btn + .btn--dark instead of btn with hardcoded styles

### 3. Organize with SMACSS

- a. Create logical file or comment sections: Base, Layout, Module, State, Theme
- b. Example: treat .card as a Module, .btn--dark as a State or Theme

#### 4. Convert to SCSS

- a. Nest related styles
- **b.** Use variables (\$primary-color, \$spacing)
- **c.** Use mixins (@mixin button-style)
- **d.** Use @import or @use with logical structure (optional, if using CodePen with SCSS enabled)