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Tailwind CSS Basics & Advanced CSS Styling

& Team Building

Tailwind-css

```
text-xl
font-bold
underline
bg-blue-500
p-4
mt-2
```

```
<H1>
  <Hello !
  <p This is a paragrap.
</p>
```

Building Responsive, Modern Websites 🚀

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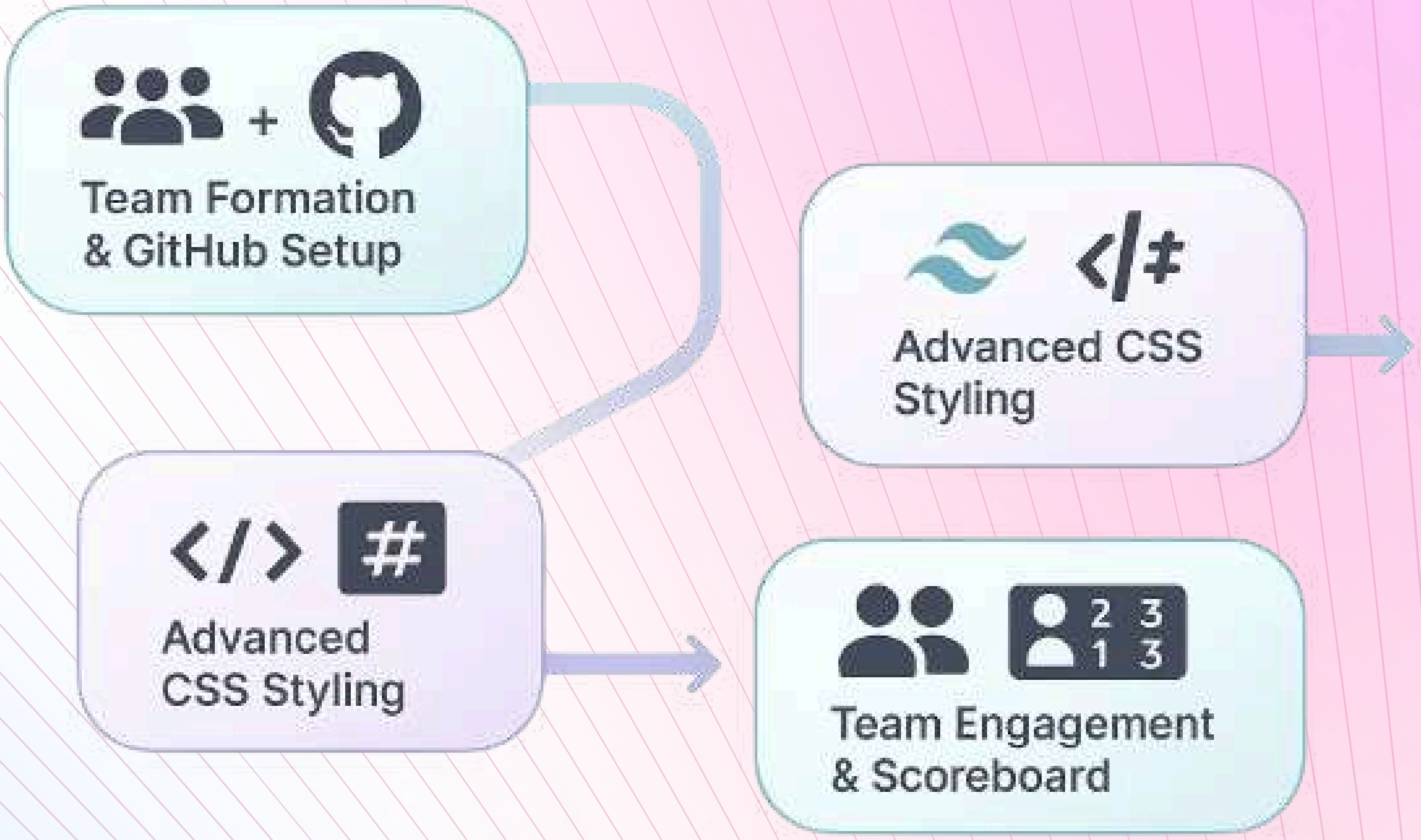
What You'll Learn Today

1. Team Formation & GitHub Organization
2. Introduction to Tailwind CSS
3. Advanced CSS Styling: Practical Layouts & Design
4. Fun Interaction: Team Engagement & Scorecard

SESSION FLOW



Team Formation & GitHub Setup

Advanced CSS Styling

Advanced CSS Styling

Team Engagement & Scoreboard

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Team Formation & GitHub Organization

1. Finalize Team Formation: Organize students into teams based on project topics (e.g., e-commerce, portfolio). Assign team leads and set goals.
2. GitHub Organization: Create shared repositories for each team.
3. Ensure everyone has a GitHub account, knows how to commit, push, and create pull requests.

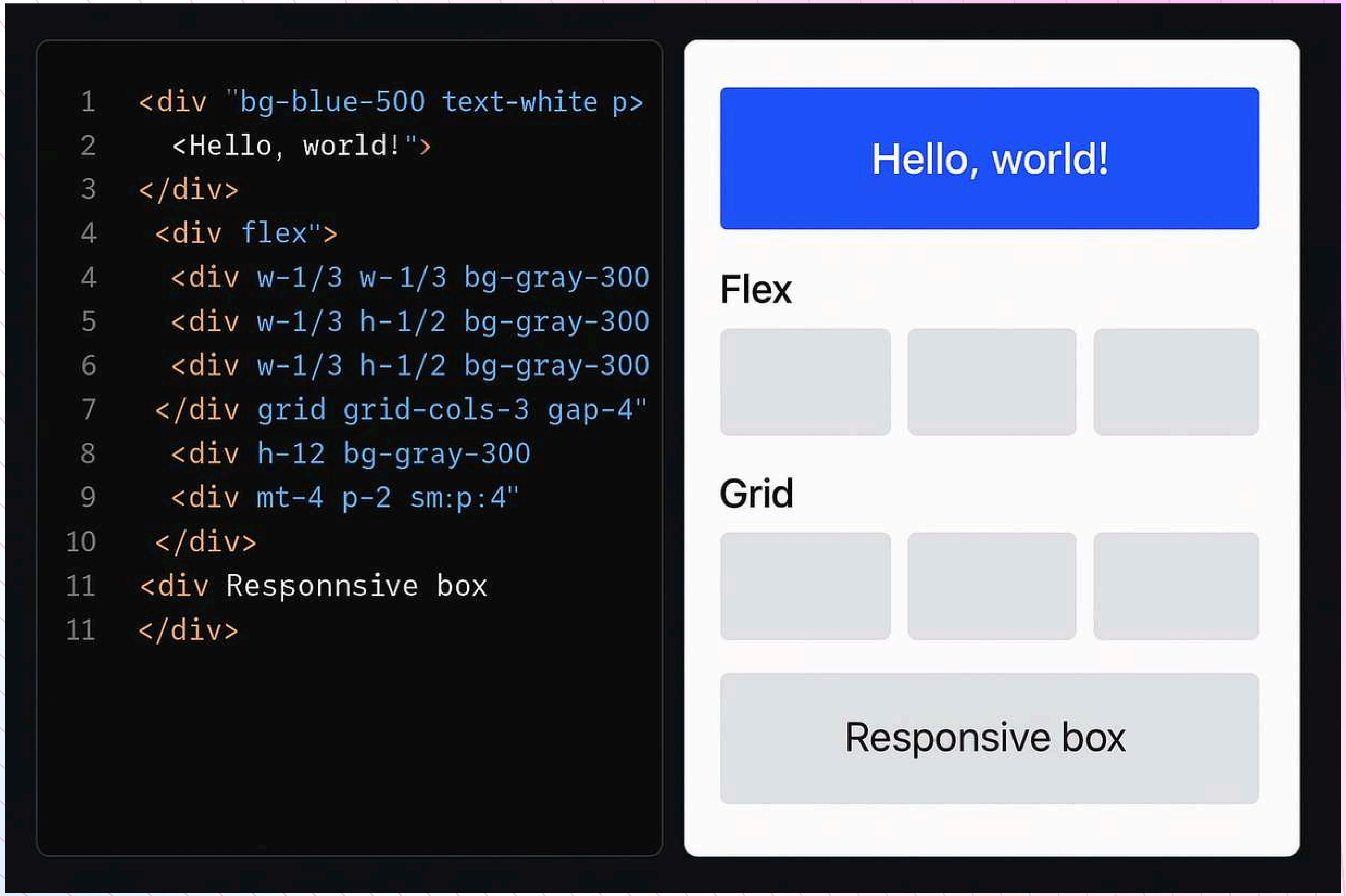
Introduction to Tailwind CSS

What is Tailwind CSS?

1. A utility-first CSS framework that allows for customizable, low-level styles.
2. Why use Tailwind: Speeds up development by using reusable utility classes.
3. Responsive design made easy: Tailwind provides predefined breakpoints for responsive layouts.

Code Snippet:

```
<div class="bg-blue-500 text-white p-4 rounded">
    <h1 class="text-xl">Welcome to Tailwind CSS</h1>
</div>
```



```
<div "bg-blue-500 text-white p>
  <Hello, world!">
</div>
 <div flex">
  <div w-1/3 w-1/3 bg-gray-300
  <div w-1/3 h-1/2 bg-gray-300
  <div w-1/3 h-1/2 bg-gray-300
 </div grid grid-cols-3 gap-4"
  <div h-12 bg-gray-300
  <div mt-4 p-2 sm:p:4"
 </div>
<div Responnsive box
</div>
```

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Tailwind CSS vs Bootstrap

Bootstrap :

A component-based framework that provides pre-built, styled components (like buttons, navbars).

B

Tailwind CSS :

A utility-first framework, which gives you low-level styling options (e.g., bg-blue-500, p-4), giving more flexibility

Code Comparison :

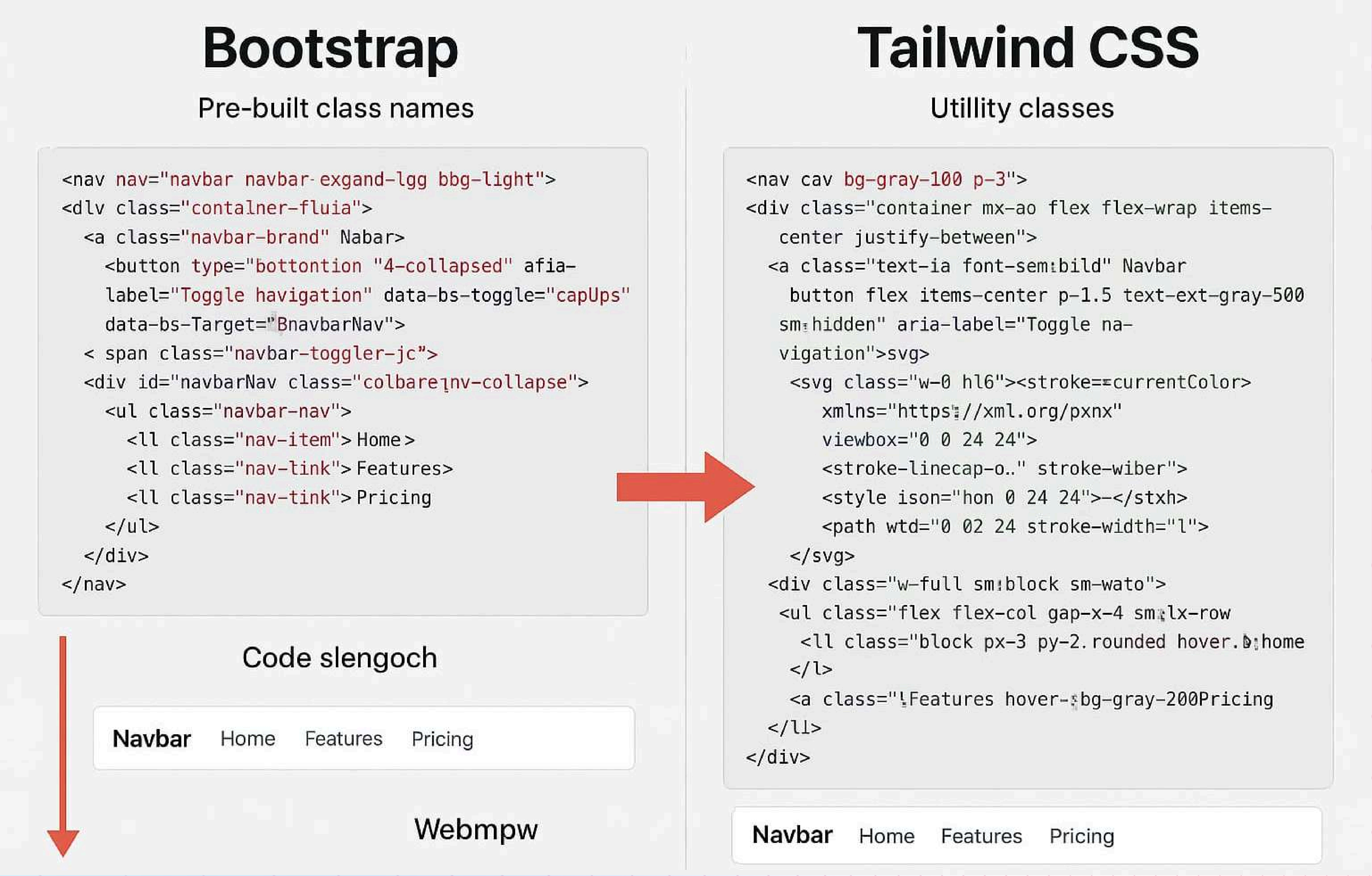
Bootstrap (Navbar)

```
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">Navbar</a>
</nav>
```

Tailwind CSS (Navbar)

```
<nav class="bg-blue-500 p-4 flex justify-between">
  <a href="#" class="text-white">Navbar</a>
</nav>
```

Tailwind CSS vs Bootstrap



Bootstrap

Pre-built class names

```
<nav nav="navbar navbar exgand-lgg bbg-light">
<dlv class="contalner-fluia">
  <a class="navbar-brand" Nabar>
    <button type="bottontion "4-collapsed" afia-
    label="Toggle havigation" data-bs-toggle="capUps"
    data-bs-Target="BnavbarNav">
  < span class="navbar-toggler-jc”>
  <div id="navbarNav class="colbareɿnv-collapse">
    <ul class="navbar-nav">
      <ll class="nav-item"> Home >
      <ll class="nav-tink"> Features>
      <ll class="nav-tink"> Pricing
    </ul>
  </div>
</nav>
```

Code slengoch

Navbar Home Features Pricing

Webmpw

Tailwind CSS

Utillity classes

```
<nav cav bg-gray-100 p-3">
<div class="container mx-ao flex flex-wrap items-
   center justify-between">
  <a class="text-ia font-sem:bild" Navbar
    button flex items-center p-1.5 text-ext-gray-500
   sm:hidden" aria-label="Toggle na-
   vigation">svg>
    <svg class="w-0 hl6"><stroke==currentColor>
       xmlns="https://xml.org/pxnx"
       viewbox="0 0 24 24">
       <stroke-linecap-o.." stroke-wiber">
       <style ison="hon 0 24 24">-</stxh>
       <path wtd="0 02 24 stroke-width="l">
    </svg>
  <div class="w-full sm:block sm-wato">
   <ul class="flex flex-col gap-x-4 sm:lx-row
     <ll class="block px-3 py-2. rounded hover.b:home
    </l>
    <a class="!Features hover-:bg-gray-200Pricing
  </ll>
</div>
```

Navbar Home Features Pricing

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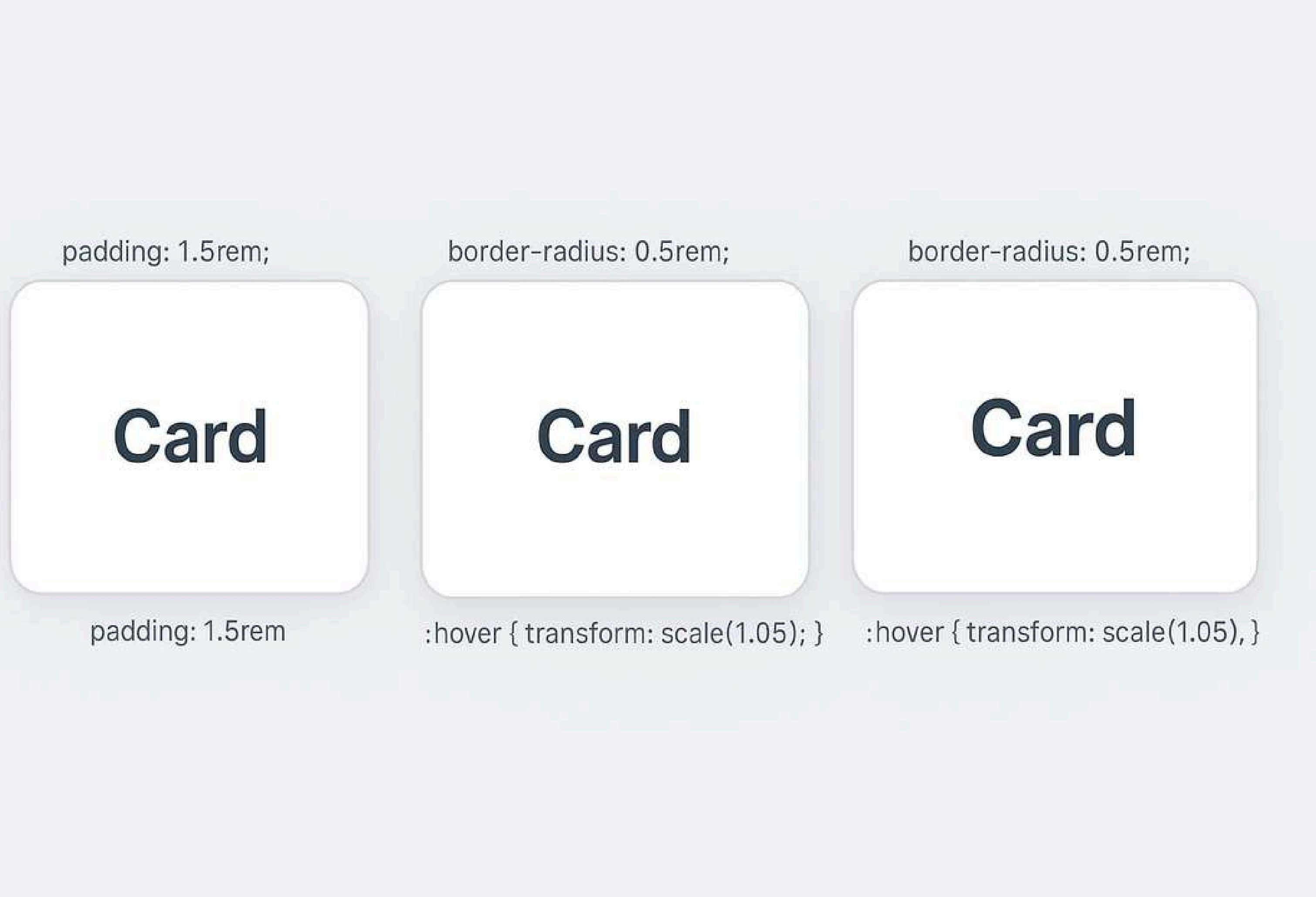
Advanced CSS Styling: Practical Layouts & Design

Text and Container Styling:

1. Text and Container Styling:
2. Focus on basic text styling (fonts, colors, line-height).
3. Apply container styles (padding, margin, border).



CSS Card Styles:

1. Design cards using Flexbox, add hover effects.
2. Adding Animations and Transitions:
3. Add hover effects and smooth transitions (e.g., fade-in).
4. Keyframe animations for effects (e.g., bounce, fade).

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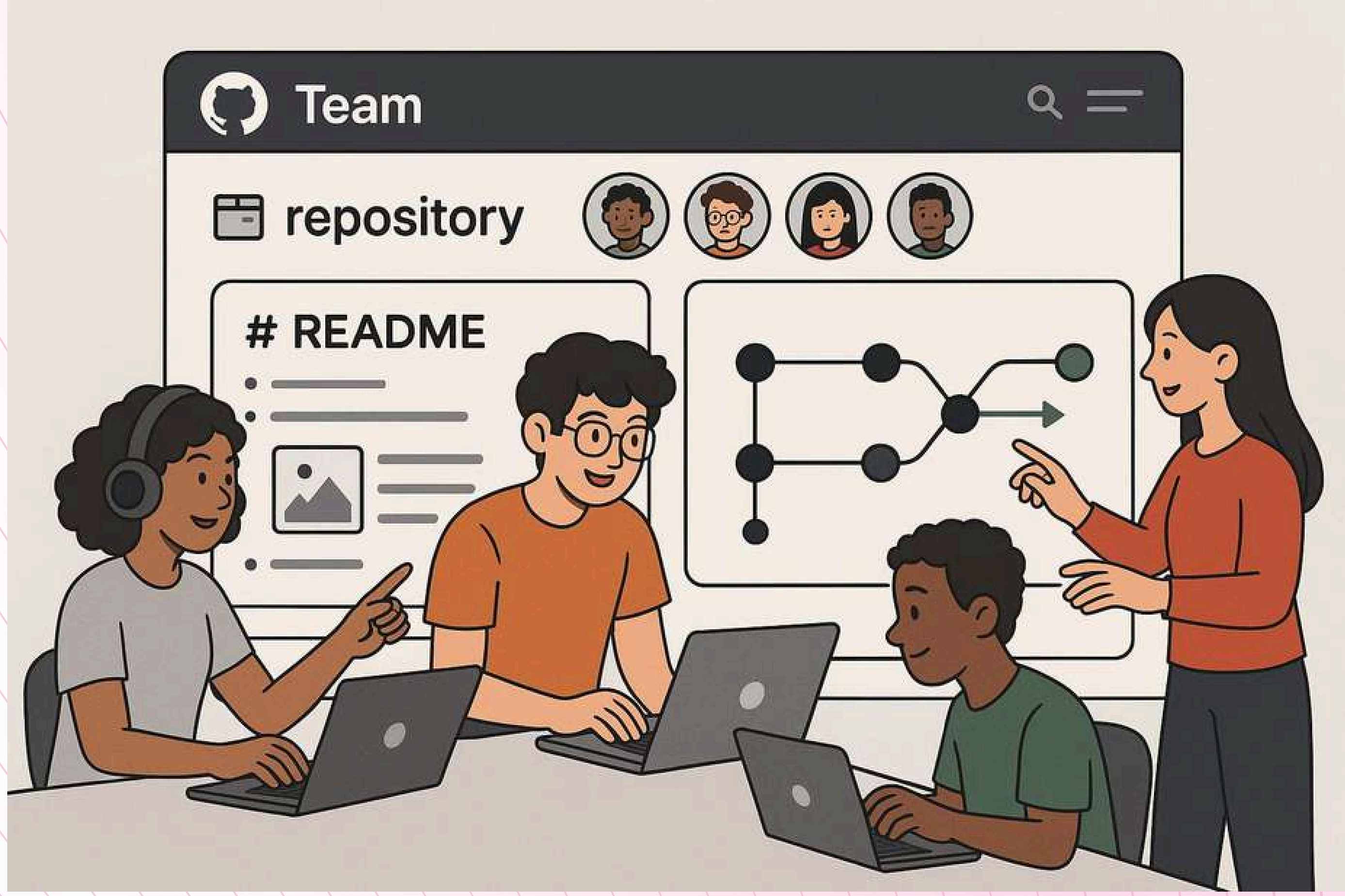
Fun Interaction & Team Engagement

Team Engagement:

1. Use scorecards to track team progress.
2. Introduce fun challenges (e.g., "Best Tailwind Layout of the Day!").

Team Progress Check-In:

1. Ensure teams are on track with their projects and provide assistance.
2. Encourage collaboration and effective use of GitHub.



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Q&A & Wrap-Up

Q&A Session:

Ask questions about Tailwind CSS, GitHub, or project setup.

Wrap-Up & What's Next:

Next session: Advanced CSS (animations, transitions), enhance frontend projects further with UI design principles.

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Outcome of Session 4

1. Set up team repositories and collaborate on GitHub.
2. Learned Tailwind CSS for responsive layouts and styling.
3. Applied advanced CSS (text styling, card designs, animations).
4. Started fake client project using Tailwind CSS and CSS effects.
5. Worked in teams, simulating real-world development.