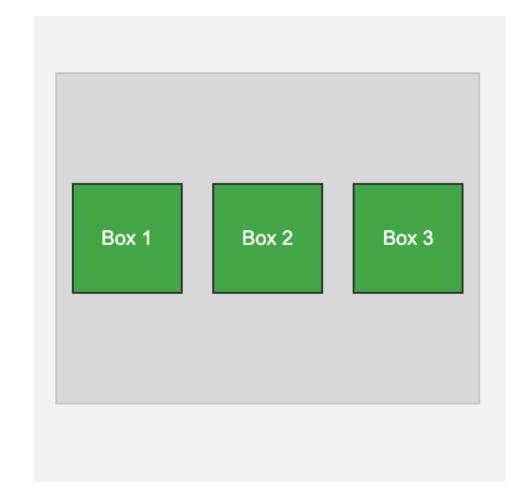






FLEXBOX AND GIT COLLABORATION

- Lesson Overview:
- In this lesson, we will be introduced to:
- Wireframing and layout planning using Microsoft Excel or Google Sheets.
- Flexbox fundamentals: display: flex, flex-direction, and flex-wrap.
- Flexbox alignment: justify-content, align-items, and understanding the flex axis.
- Git collaboration using branches and pull requests.





WIREFRAMING AND LAYOUT PLANNING

- Definition: Wireframing is an essential step in designing the structure of your website before diving into code.
- This gives you a visual blueprint of where elements will be placed and how they will be grouped.

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	banner image								
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TOOLS FOR WIREFRAMING

- Why use tools like Microsoft Excel or Google Sheets?
- Simple, grid-based layout planning.
- Easy to modify and collaborate on.
- Quick to set up without learning new design software.

Example:

Create a 3x3 grid to represent the website structure.

Plan for a header, content sections, and footer.

Demo...

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	Service 1			Service 1				Service 1	
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FLEXBOX BASICS

- Flexbox is a powerful tool for creating responsive layouts.
- It allows you to align elements dynamically across different screen sizes.



DISPLAY: FLEX

display: flex

display: flex turns a container into a Flexbox container.

- This affects how its child elements are laid out.
- Items inside .container will now follow Flexbox rules for alignment and positioning.

```
.container {
   display: flex;
}
```



FLEX-DIRECTION

- flex-direction: defines the direction in which the flex items are placed in the flex container.
- row (default): Horizontal layout.
- column: Vertical layout.
- row-reverse: Reverses the order of items horizontally.
- column-reverse: Reverses the order of items vertically.
- Example:

```
.container {
   display: flex;
   flex-direction: column;
}
```



FLEX-WRAP

 By default, Flexbox tries to fit items on a single line.

flex-wrap allows items to wrap onto multiple lines.

- nowrap: All items stay on one line.
- wrap: Items will wrap to the next line if they overflow.
- wrap-reverse: Items wrap in reverse order.

Demo...

```
.container {
   display: flex;
   flex-wrap: wrap;
}
```



FLEXBOX ALIGNMENT

- justify-content aligns flex items along the main axis (horizontal if flex-direction: row, vertical if flexdirection: column).
- flex-start: Align items to the start.
- center: Center items.
- space-between: Distribute items with space between them.
- space-around: Space around items, with even margins.

```
.container {
   display: flex;
   justify-content: center;
}
```



ALIGN-ITEMS

- align-items aligns items along the cross axis (perpendicular to the main axis).
- flex-start: Align items to the top.
- center: Center items vertically.
- stretch: Items stretch to fill container.

```
.container {
   display: flex;
   align-items: center;
}
```



THE FLEX AXIS

- Main Axis: Defined by flex-direction. Horizontal if row, vertical if column.
- Cross Axis: Perpendicular to the main axis.
- **Tip**: Understanding the axes helps you control alignment using justify-content (main axis) and align-items (cross axis).

Demo...



GIT COLLABORATION

- Git enables team collaboration by allowing multiple people to work on the same project.
- This section covers branching, pull requests, and merging.



GIT BRANCHING

- Why use branches?
- Each developer can work on a feature without affecting the main codebase.
- Avoids conflicts by isolating work.
- Creating a branch:

git checkout -b feature-branch



COMMITTING AND PUSHING CHANGES

 Once you've made changes, commit and push them to the remote repository.

```
git add .
git commit -m "Added new feature"
git push origin feature-branch
```



PULL REQUESTS AND MERGING

- A pull request (PR) is how changes from a feature branch get reviewed and merged into the main branch.
- Pull Request Steps:
- 1. Push your branch to GitHub.
- 2. Open a pull request for review.
- 3. Once approved, merge the branch.

git merge feature-branch



BRANCH CLEANUP

After merging, delete the old branch to keep the repository clean.

git branch -d feature-branch



RECAP

- Wireframing helps plan your website's layout.
- Flexbox provides a powerful, flexible layout system.
- CSS transitions and transformations bring subtle animations and effects.
- **Git collaboration** ensures smooth teamwork through branches and pull requests.

- Website Wireframe Beginner's Guide: https://blog.hubspot.com/website/websitewireframe
- CSS Tricks: A Complete Guide to Flexbox: https://css-tricks.com/snippets/css/a-guide-to-flexbox/
- Git Branches in a Nutshell
 https://git-scm.com/book/en/v2/Git-BranchingBranches-in-a-Nutshell



QUESTIONS?