Mastering CSS

Introduction
CSS Flexbox vs Grid

JAIVANTH
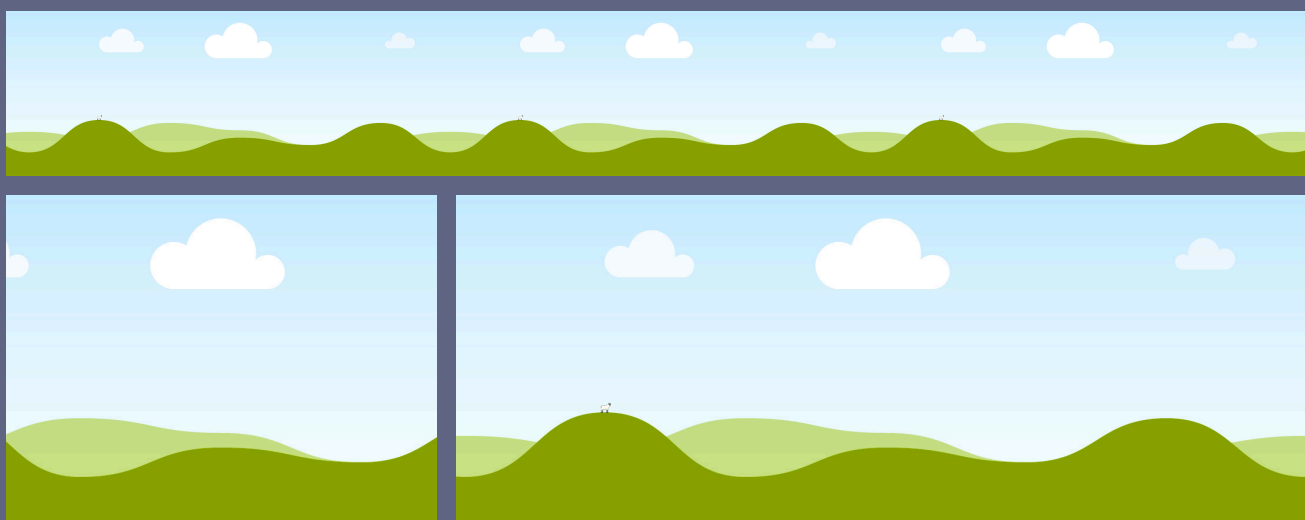
1D vs 2D Layouts

Flexbox = One-dimensional (row or column)

Grid = Two-dimensional (row and column)

When to Use Flexbox?

Use Flexbox for:

Navigation bars

Centering elements

Lists of items in one direction

Components inside cards or modals
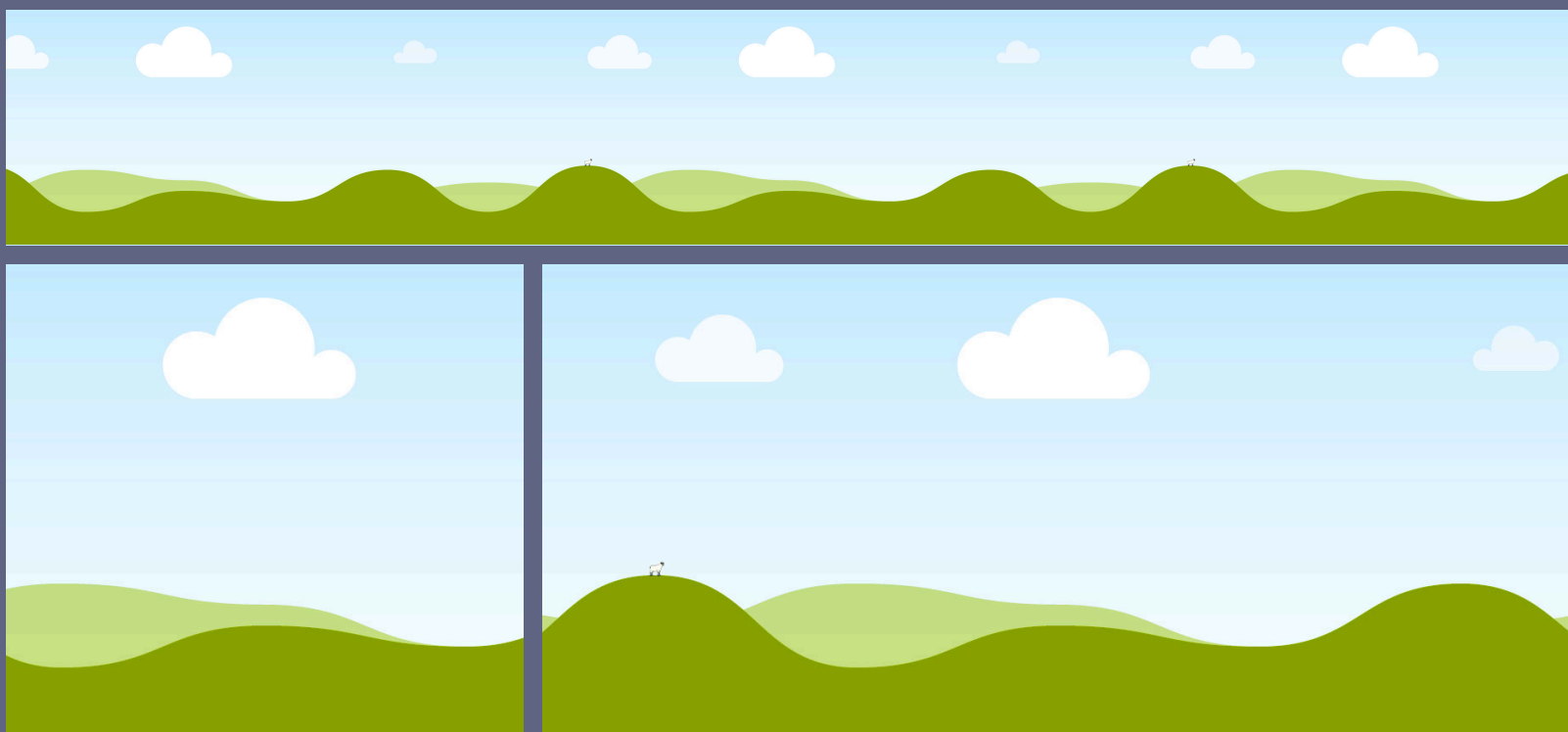
When to Use Grid?

Use Grid for:

Full page layouts

Dashboards

Galleries with rows and columns

Complex nested structures

Pros & Cons of Flexbox

Pros:

Simple to implement

Great for dynamic resizing

Aligns items easily (e.g., center, space-between)

Works well in nested components

Cons:

Limited to 1D layouts

Complex layouts become harder to manage

Requires hacks for some spacing/alignment tricks

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Pros & Cons of Grid

Pros:

Perfect for 2D layouts

Precise control over rows and columns

Named grid areas improve readability

Cleaner media query handling

Cons:

Slightly more complex to learn

Can be overkill for simple UI

Less intuitive for dynamic content wrapping

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Summary Cheat Sheet

Feature	Flexbox	Grid
Layout Type	1D	2D
Use For	Components	Full layouts
Easy to Start?	Yes	Moderate

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