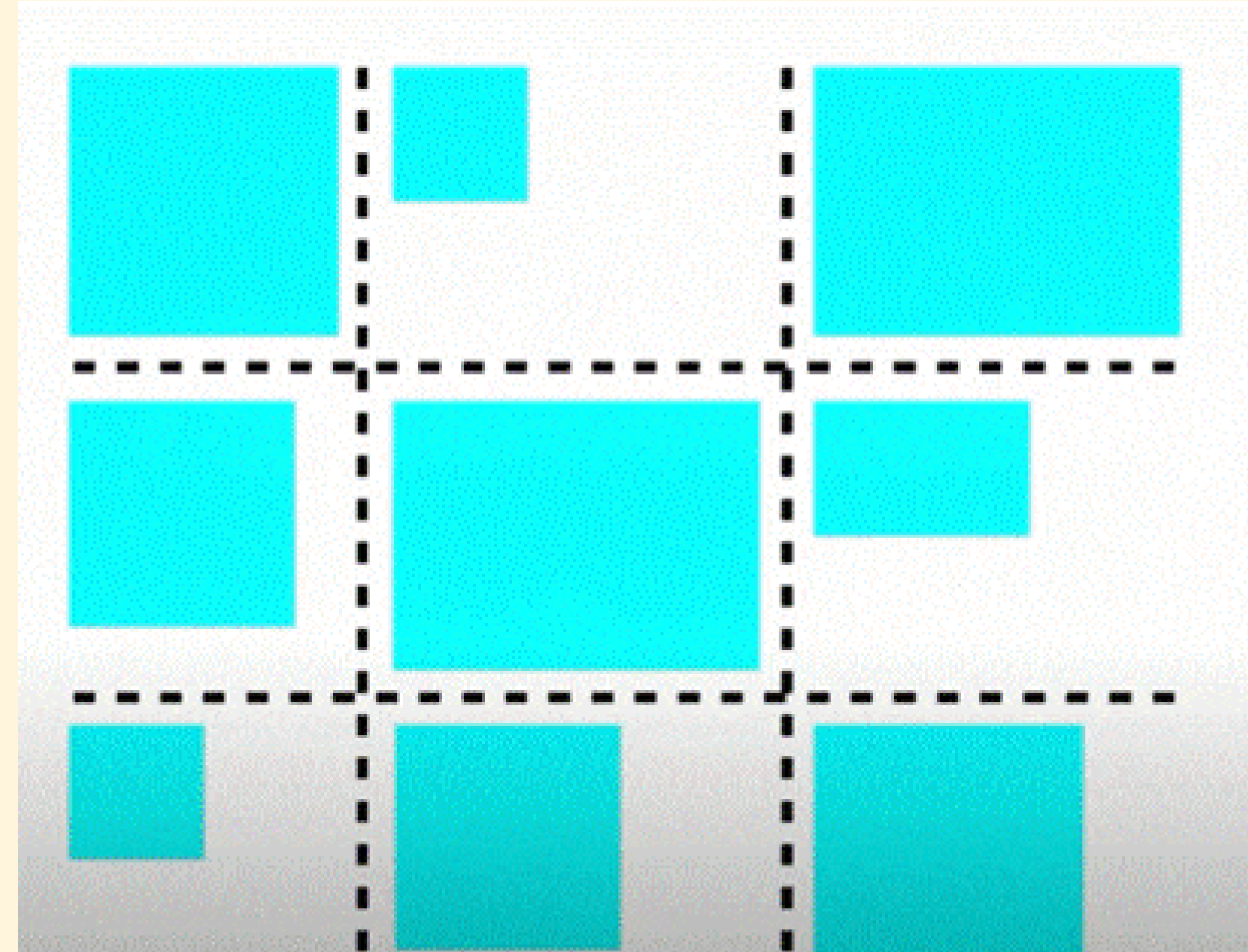# Introduction

CSS Grid and Flexbox are two very powerful CSS design tools.

We will compare them and see which one to choose and more important when to choose.
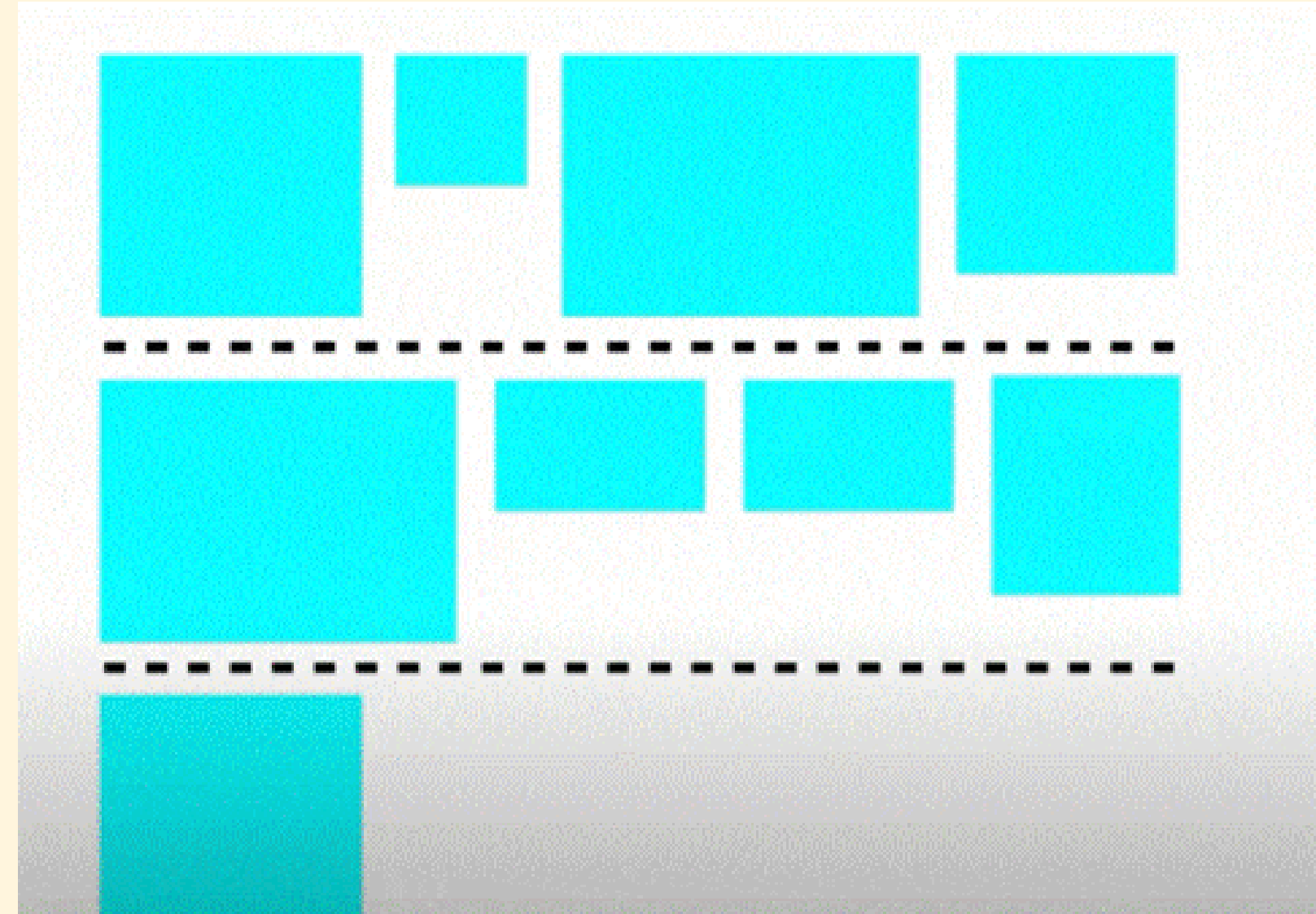
CSS Grid

- Is a grid system that is flexible and adaptable to many screen sizes.

- It can be used for both responsive and non-responsive layouts.

- It follows a set of guidelines that allow the designer to decide which elements respond to breakpoints, how they are placed in the grid and much more.

LU.

FLEXBOX

- It is a container that can display content on any device, regardless of screen size.

- It can be used to create responsive designs for your website that will work on all devices.

- It is a CSS3 one-dimensional layout mode that provides an easy and clean way to organize elements within a container.

-

DIFERENCE

- Flexbox can work on rows or columns at a time, whereas Grid, which is two dimensional, can work on both at the same time.

- Grid is layout based, whereas Flexbox is content based.

GRID

```
<style>
    html{
        background: #E3ED9D;
    }
    .container{
        display:grid;
        grid-auto-columns:minimax(15rem,auto);
        grid-template-columns:repeat(auto-fill,minmax(15rem,1fr));
        grid-gap:1rem;
    }
    .item{
        background: white;
        border:3px solid black;
        color: blue;
        padding:20px;
        font-size:2rem;
        text-align:center;
    }
</style>
```

FLEXBOX

```
<style>
    html{
        background: #E3ED9D;
    }
    .container{
        display:flex;
        flex-wrap: wrap;
        margin:-0.5rem;
    }
    .item{
        background: white;
        border:3px solid black;
        color: blue;
        padding:20px;
        font-size:2rem;
        text-align:center;
        margin:0.5rem;
    }
</style>
```

EXECUTION GRID

Lorem Ipsum is simply dummy text of the printing took a galley of type and scrambled it to make a type specimen book.	1	2	3	4
5	6	7	8	

EXECUTION FLEX

Lorem Ipsum is simply dummy text of the printing took a galley of type and scrambled it to make a type specimen book.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Flexbox vs Grid

When to use Flex-Layout?

Flexbox doesn't handle the layout for the whole page it handles the layout for a particular container and the items that are a direct child of that container.

You have a complicated design to function with and want maintainable web pages.

You wish to add gaps over the block elements.

You need to overlap elements.

You need a layout-first design.

When to use Grid Layout?

The grid helps you to create the outer layout of the page you can consider it as the skeleton of the page:

You need to align the element.

You need a content-first design.

In a situation where you want to overlap items in that situation, you need to use a Grid.

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JT