CSS Grid Cheat Sheet Illustrated in 2021 🎖️

#css #webdev #beginners #tutorial

Joy Shaheb 4. März • *Updated on 27. Mai* • 6 min read

Today we're gonna learn **CSS Grid** basics so that you can make your own responsive sites. I'll explain how each of Grid's properties work along with a CheatSheet that covers everything you can do with Grid. Let's Go 🎖️

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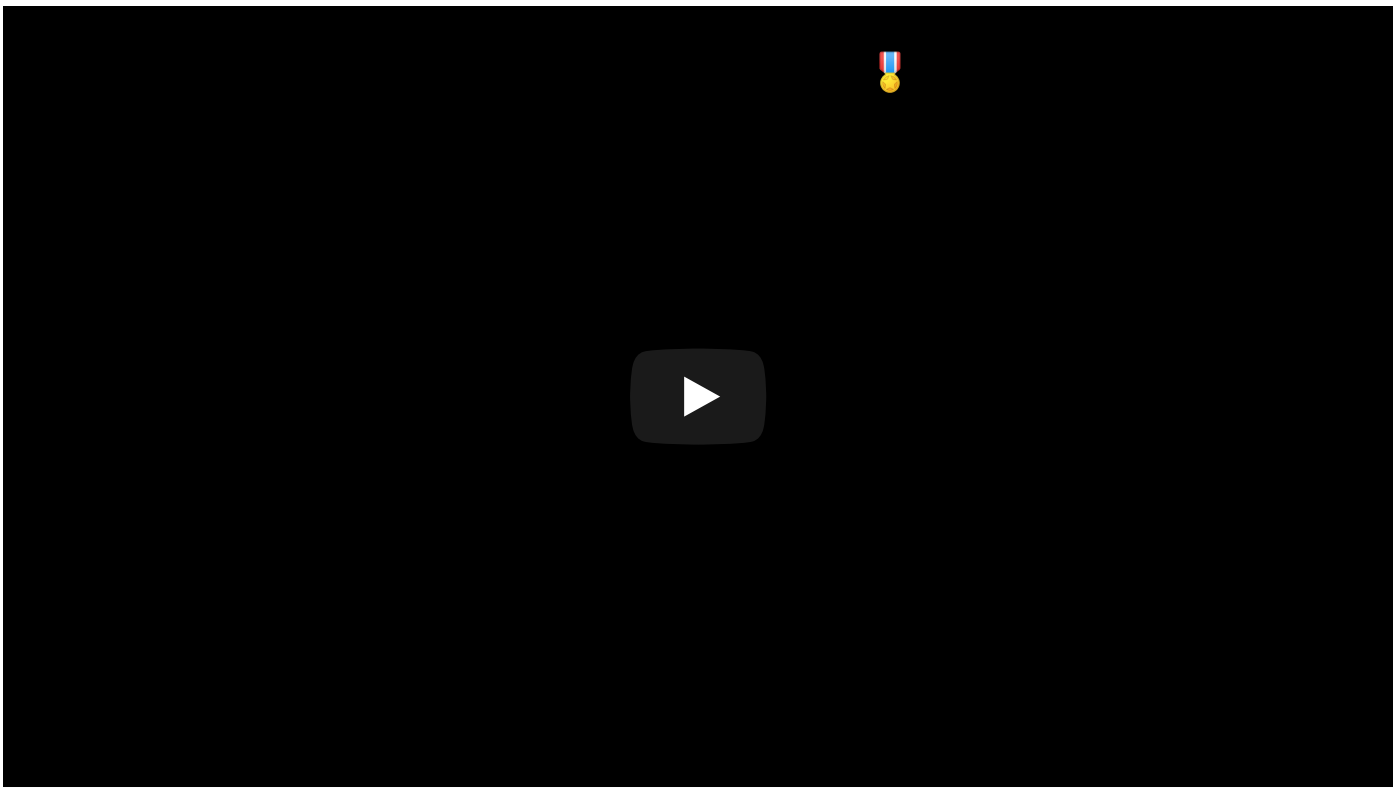
- Conclusion

You can watch this tutorial on YouTube as well if you like:

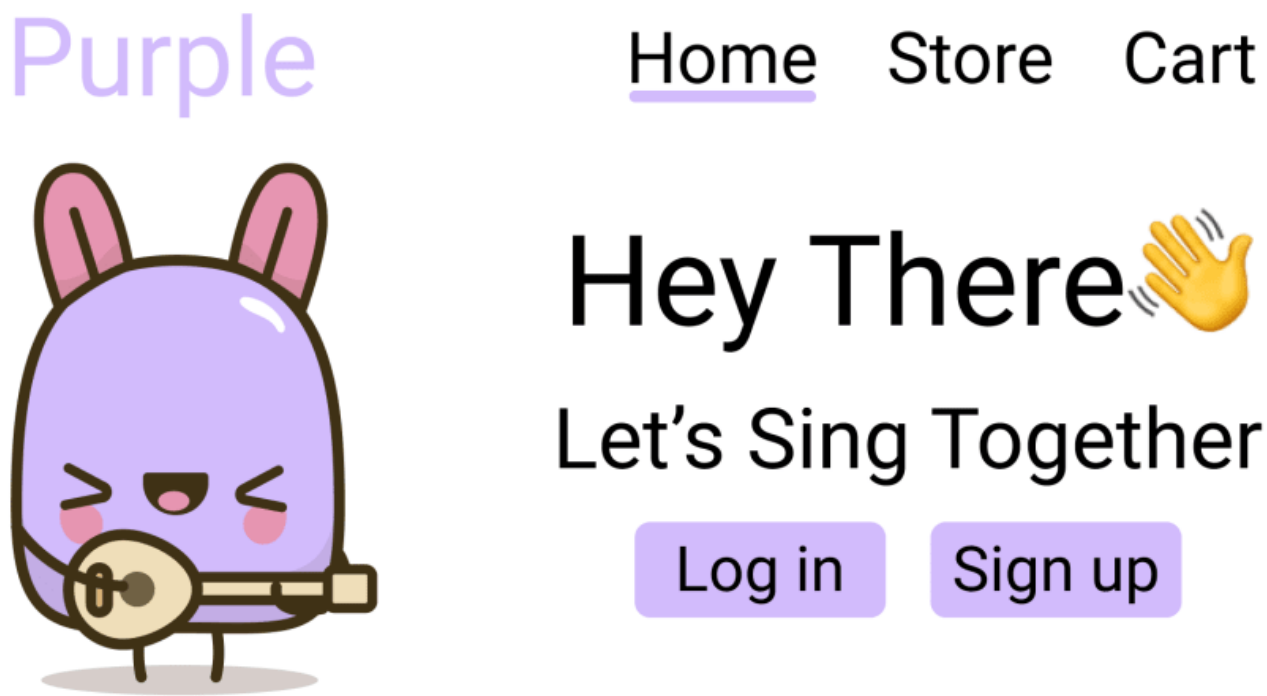


First, What is Grid?

Grid is a blueprint for making websites.

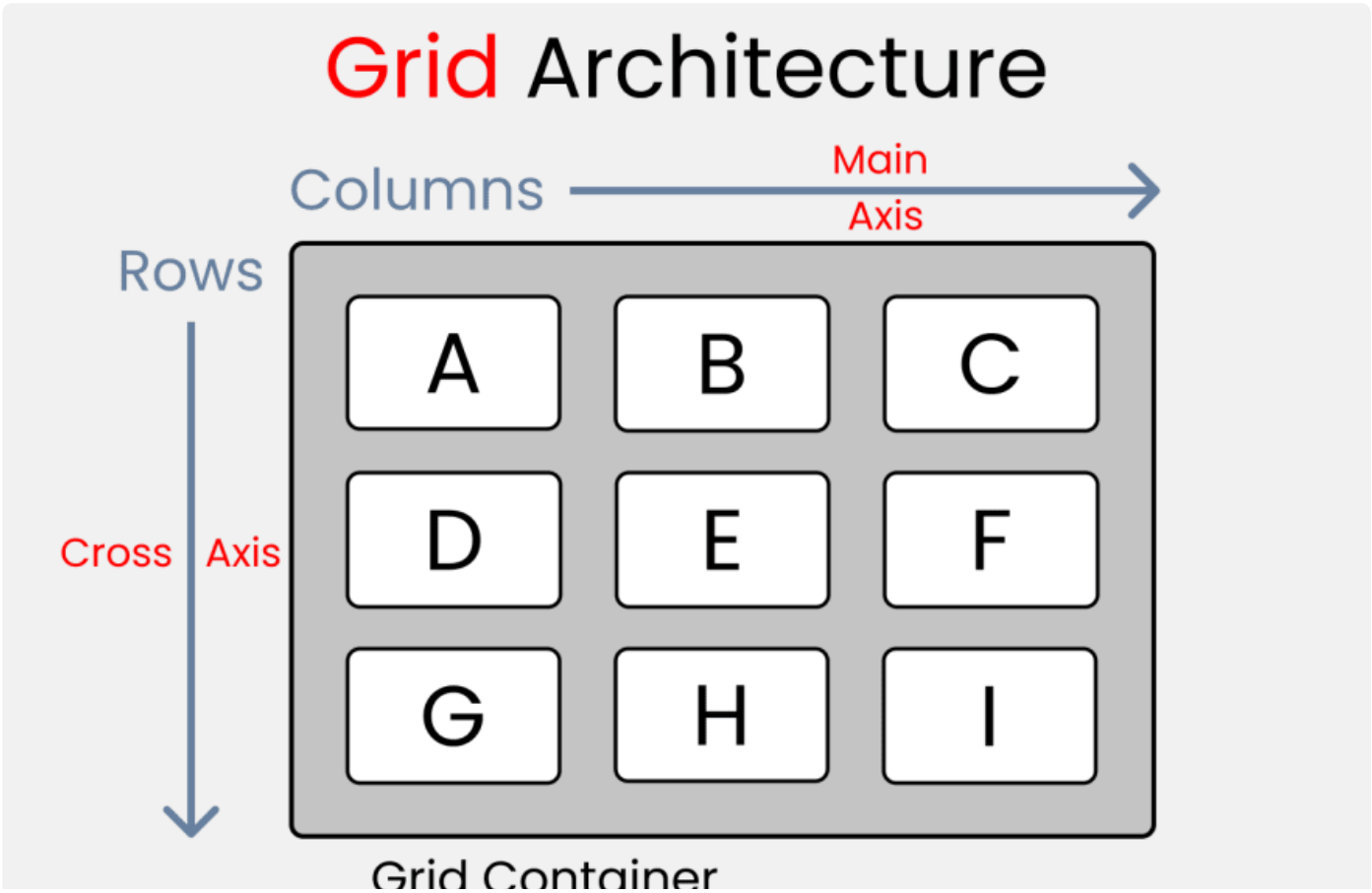
The Grid model allows us to layout the content of our website. Not only that, it helps us create the structures needed for creating responsive websites for multiple devices.

Here's a simple demo which I created using Grid as the main blueprint.



Grid Architecture

So how does Grid architecture work? The Grid items [Contents] are distributed along the main axis and cross axis. Using various Grid properties, we manipulate the items to create our website layouts.



How to Set Up the Project

For this project, you need to know little bit of HTML, CSS, and how to work with VS code. Follow along with me as we complete the following tasks:

1. Create a folder named "Project-1" & Open VS Code
2. Create index.html and style.css files
3. Install Live Server and run it.

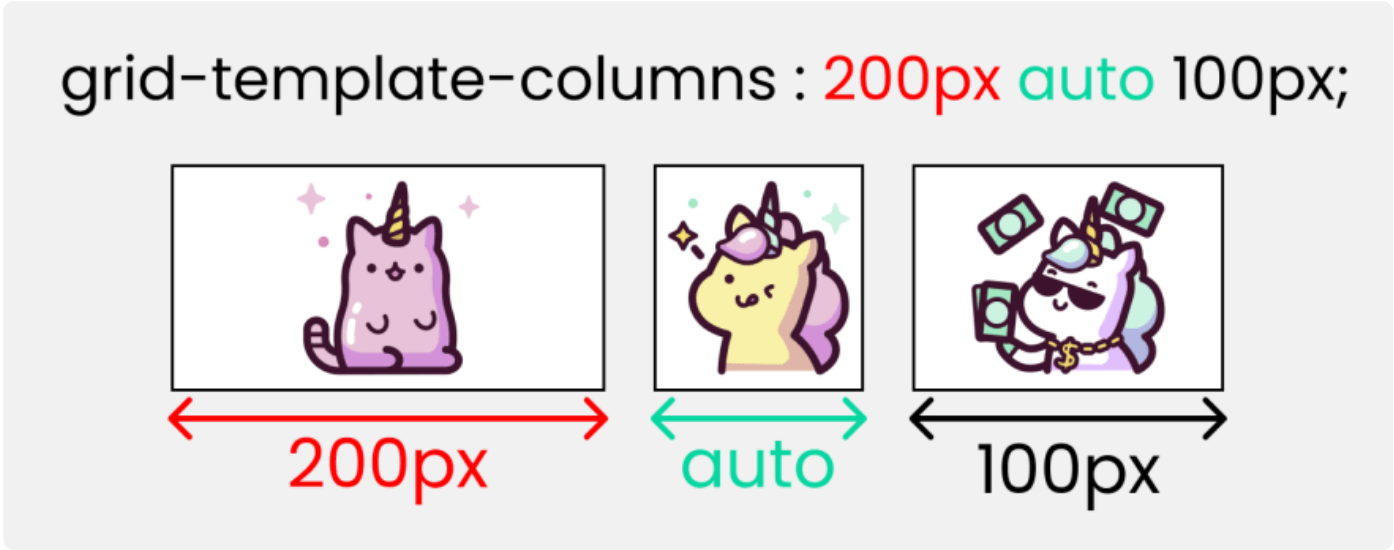
Or, you can just open Codepen and start coding.

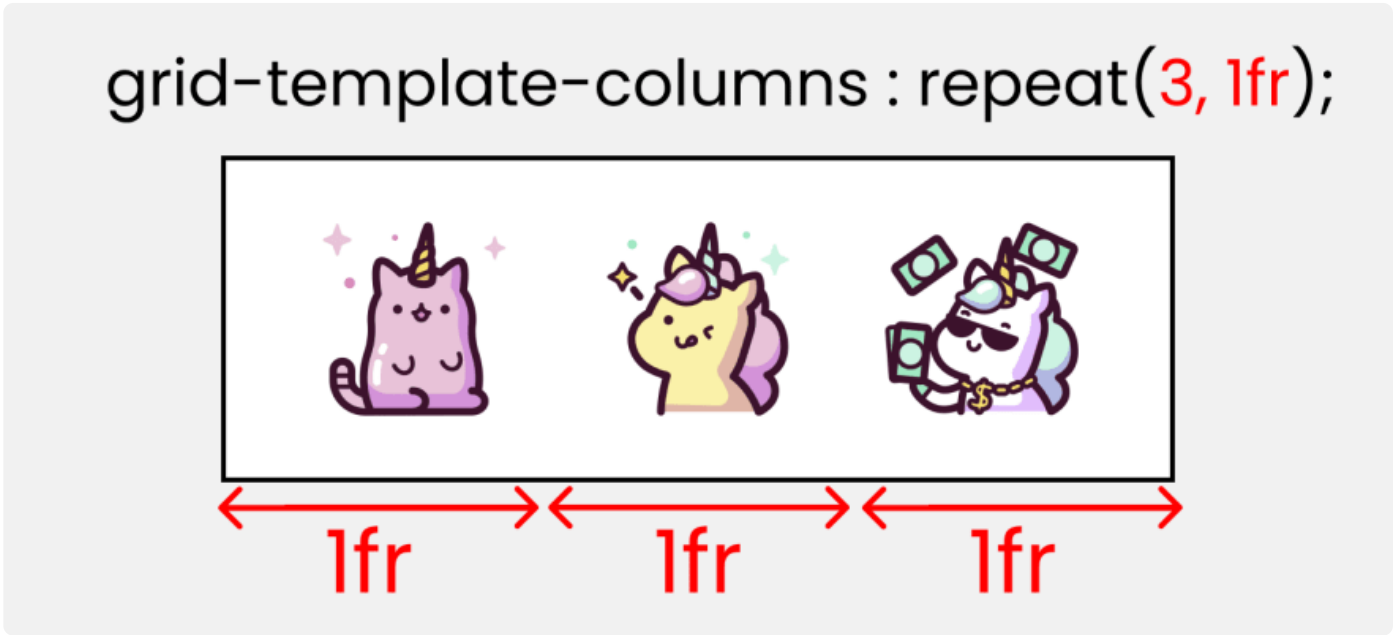
At the end of this tutorial, you will be able to make accurate and beautiful website layouts.

And...we're all set! Let's start coding. 😊

grid-template-columns

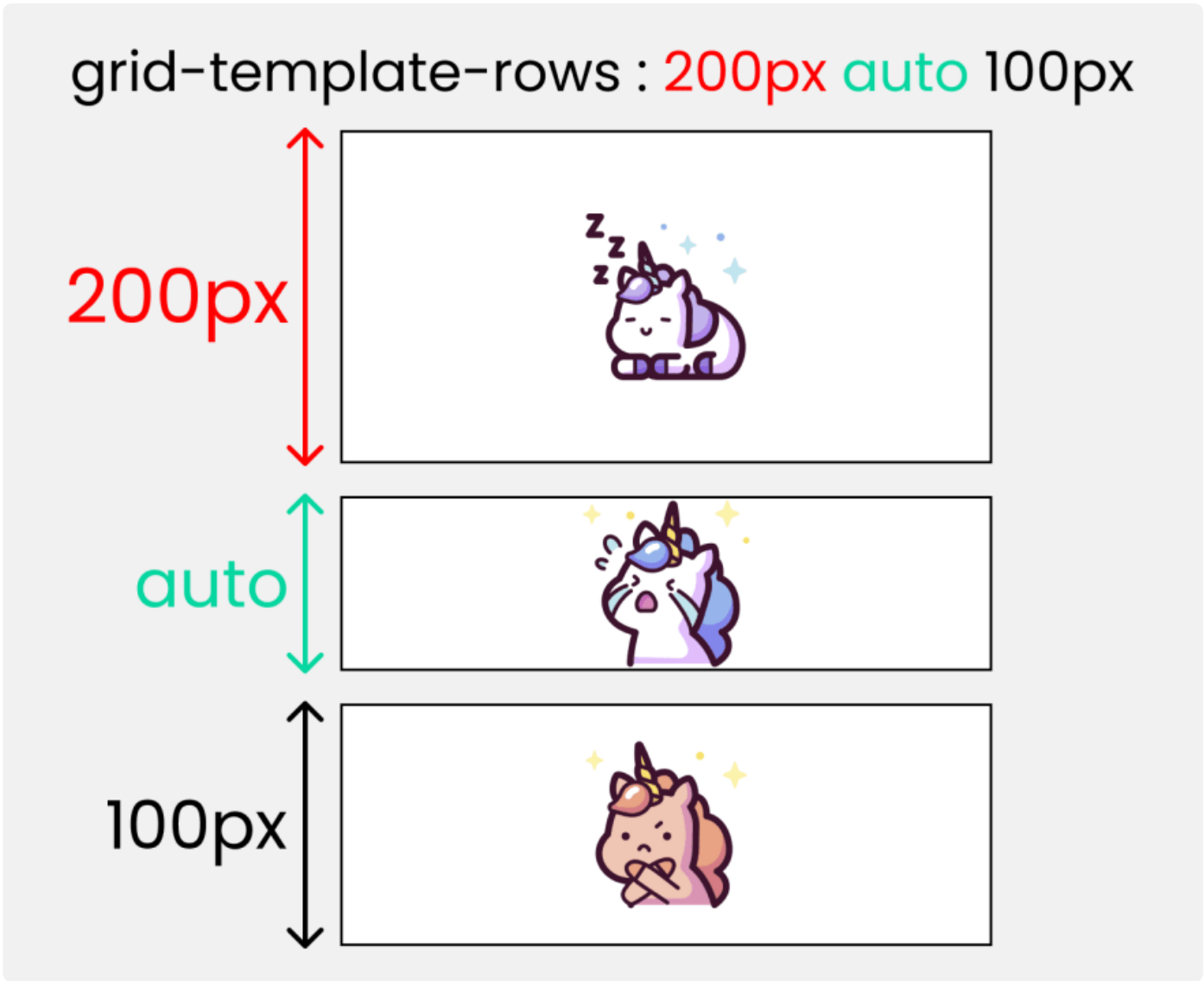
This is used to define the **Number & Width** of columns. You can either individually set the width of each column, or set an uniform width for all columns using "repeat()" function.

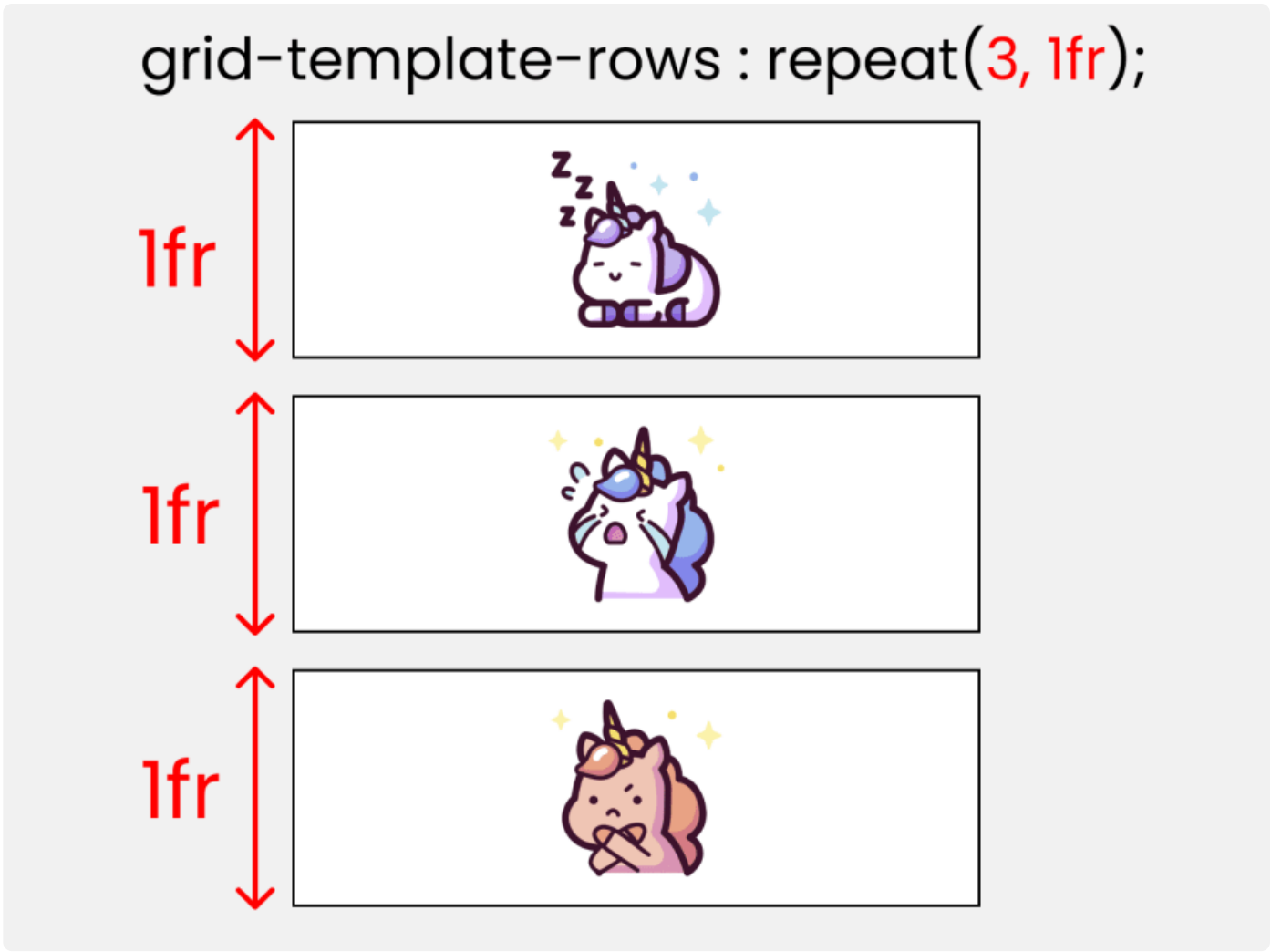




grid-template-rows

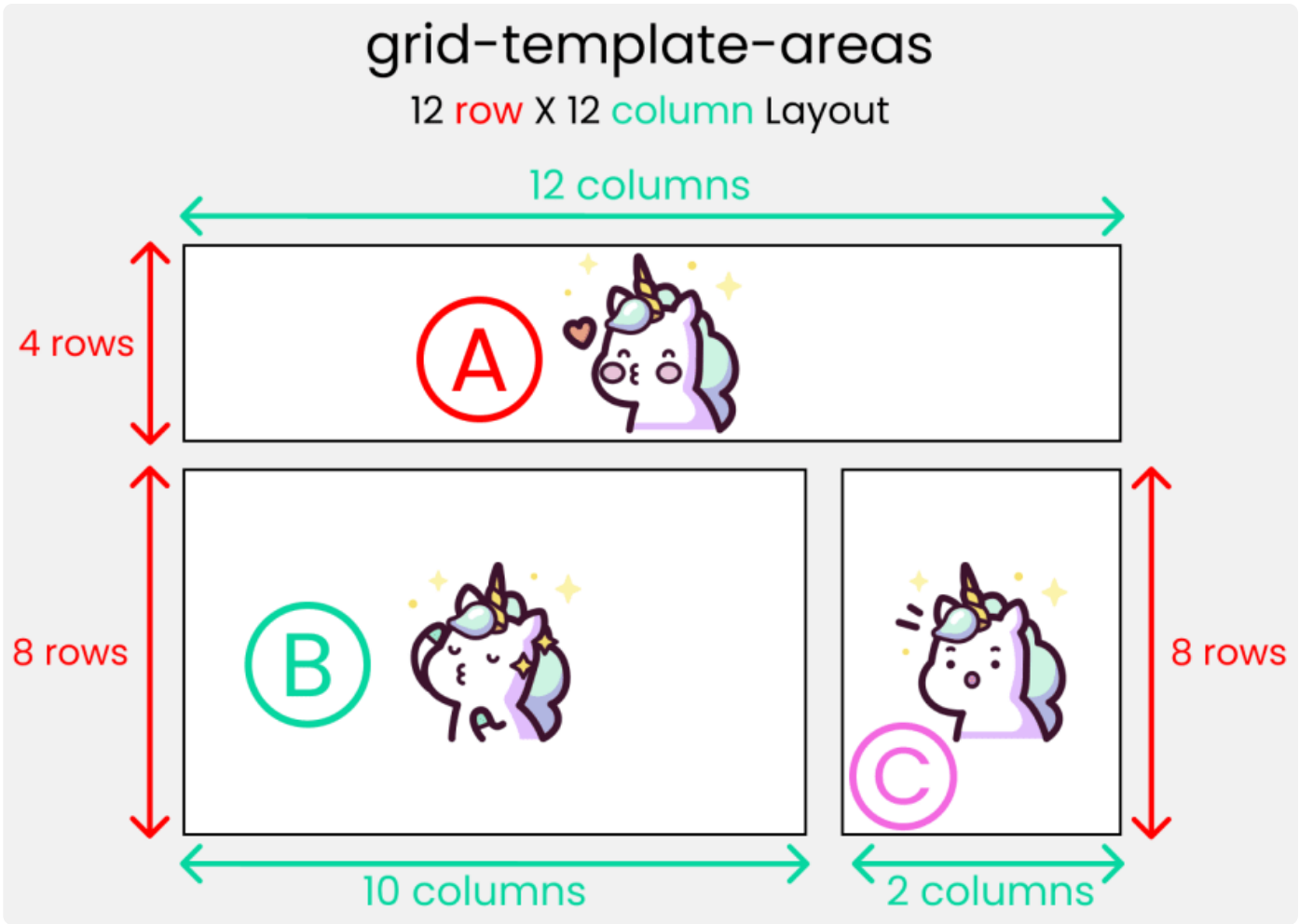
This is used to define the **Number & Height** of rows. You can either individually set the height of each row, or set an uniform height for all rows using "repeat()" function.


grid-template-rows : 200px auto 100px
200px
auto
100px

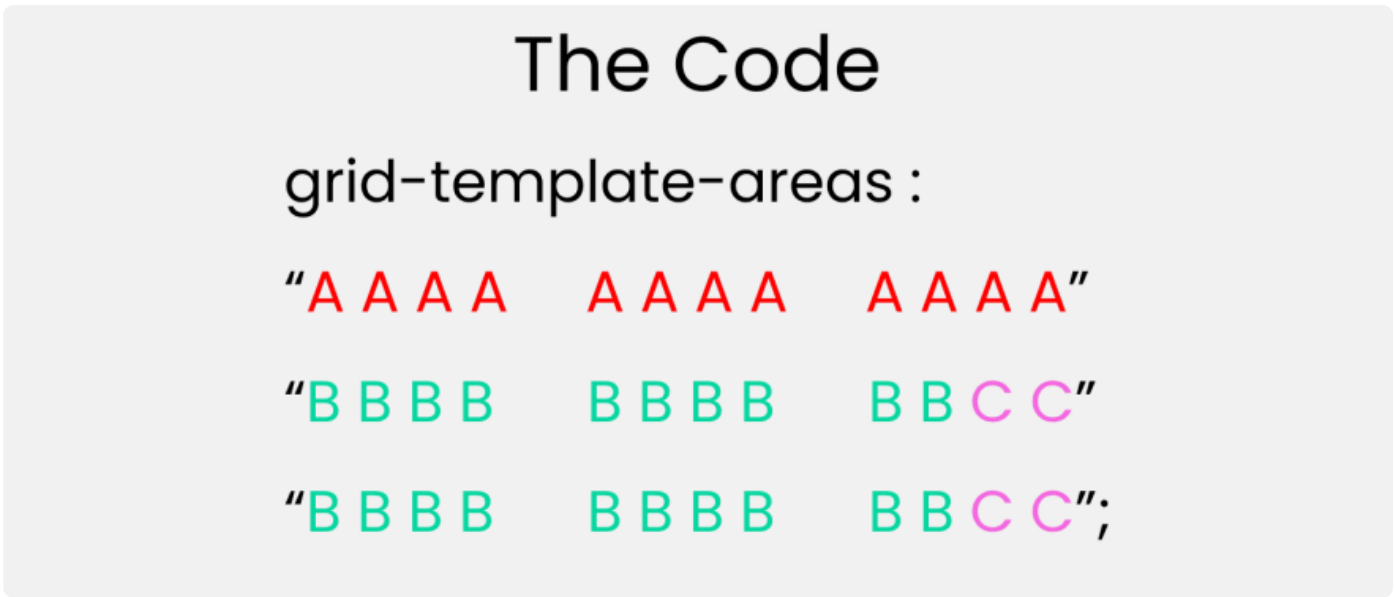


grid-template-areas

This is used to specify the amount of space a grid cell should carry in terms of column & row across the parent container. Life's Quite Easier With this as it allows us to see visually what we're doing.

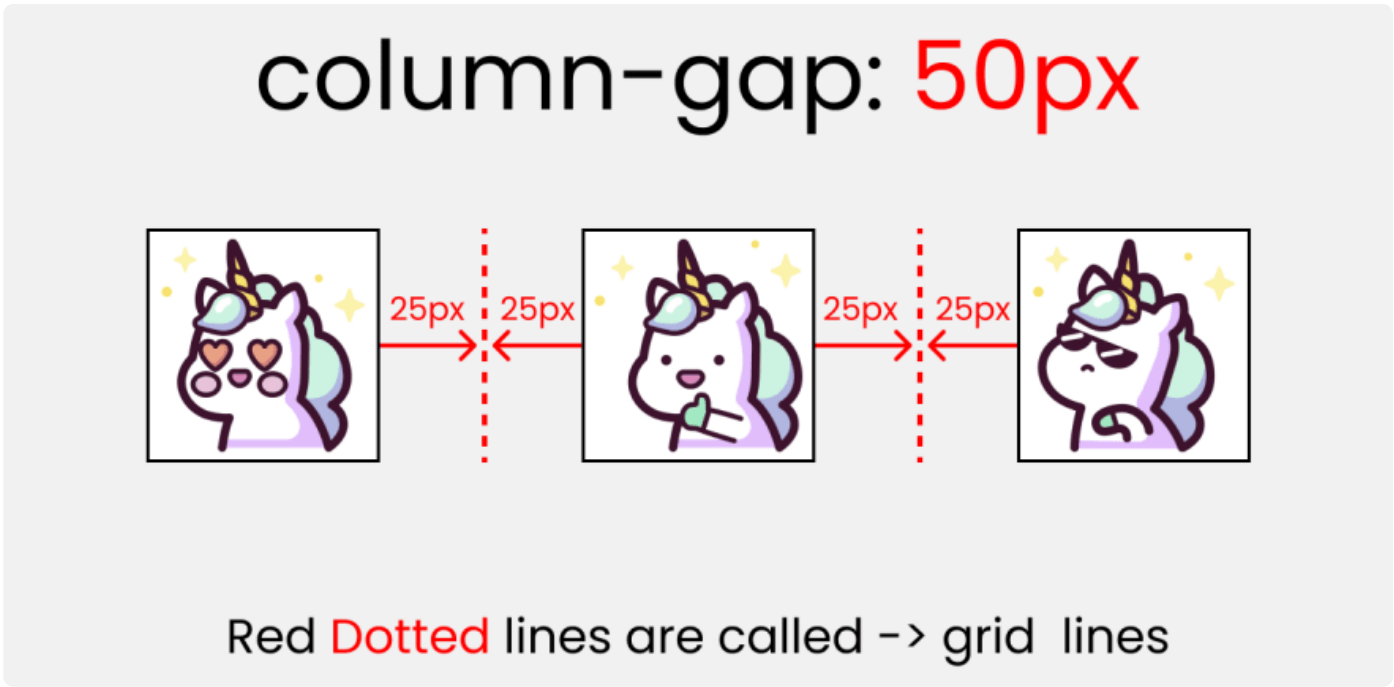


Call it, the blueprint(template) of our layout👇



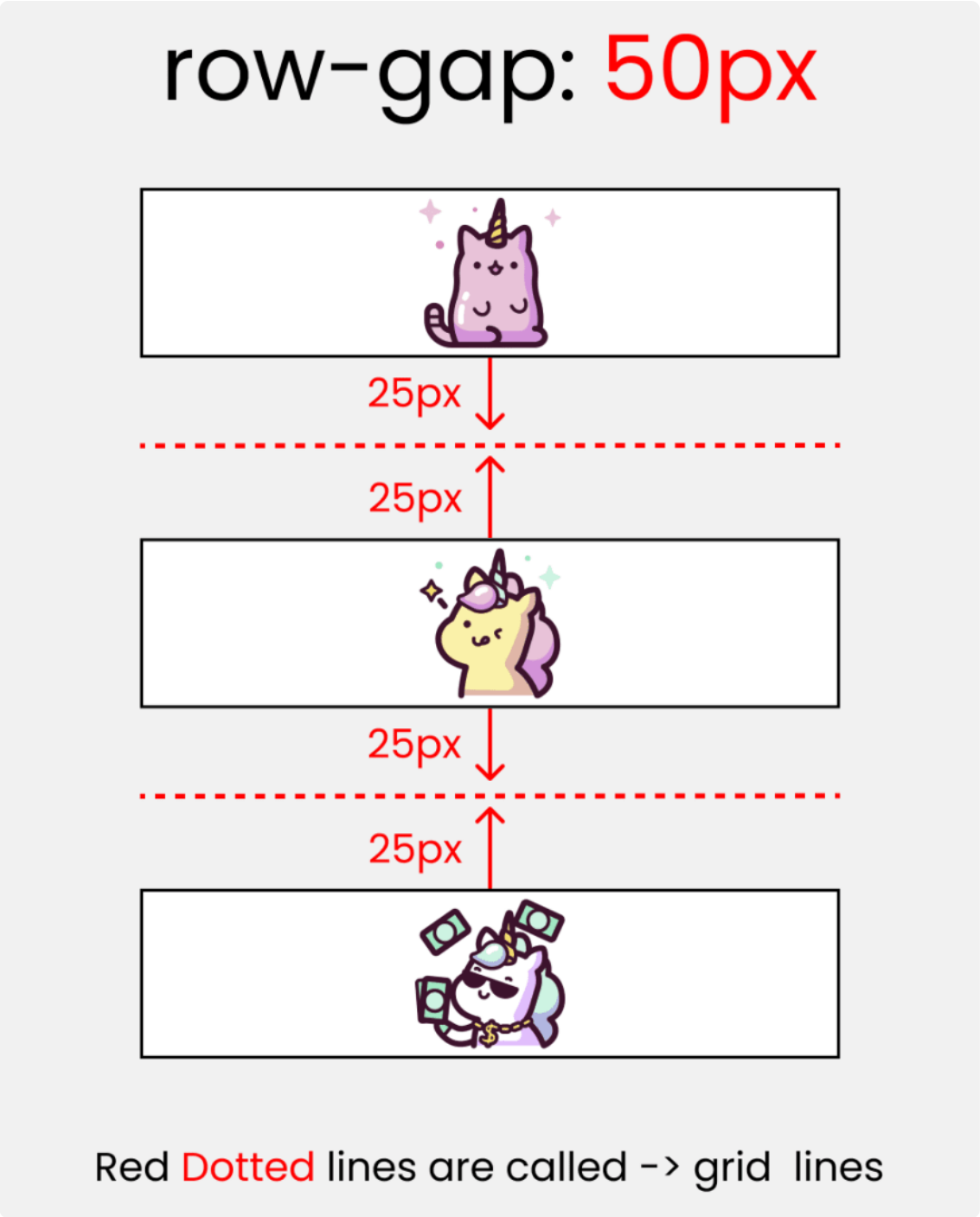
column-gap :

This property is used to place gap between **Columns** inside the grid 👇



row-gap :

This property is used to place gap between **Rows** inside the grid 👇



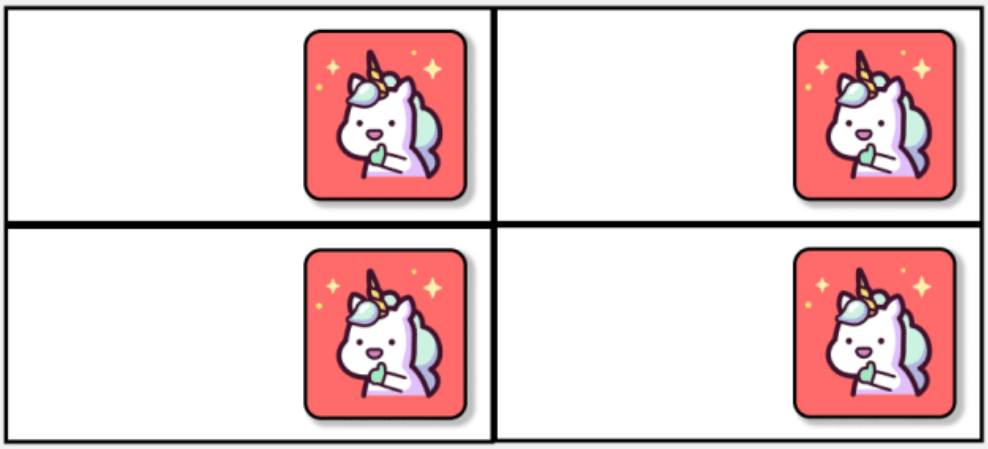
justify-items :

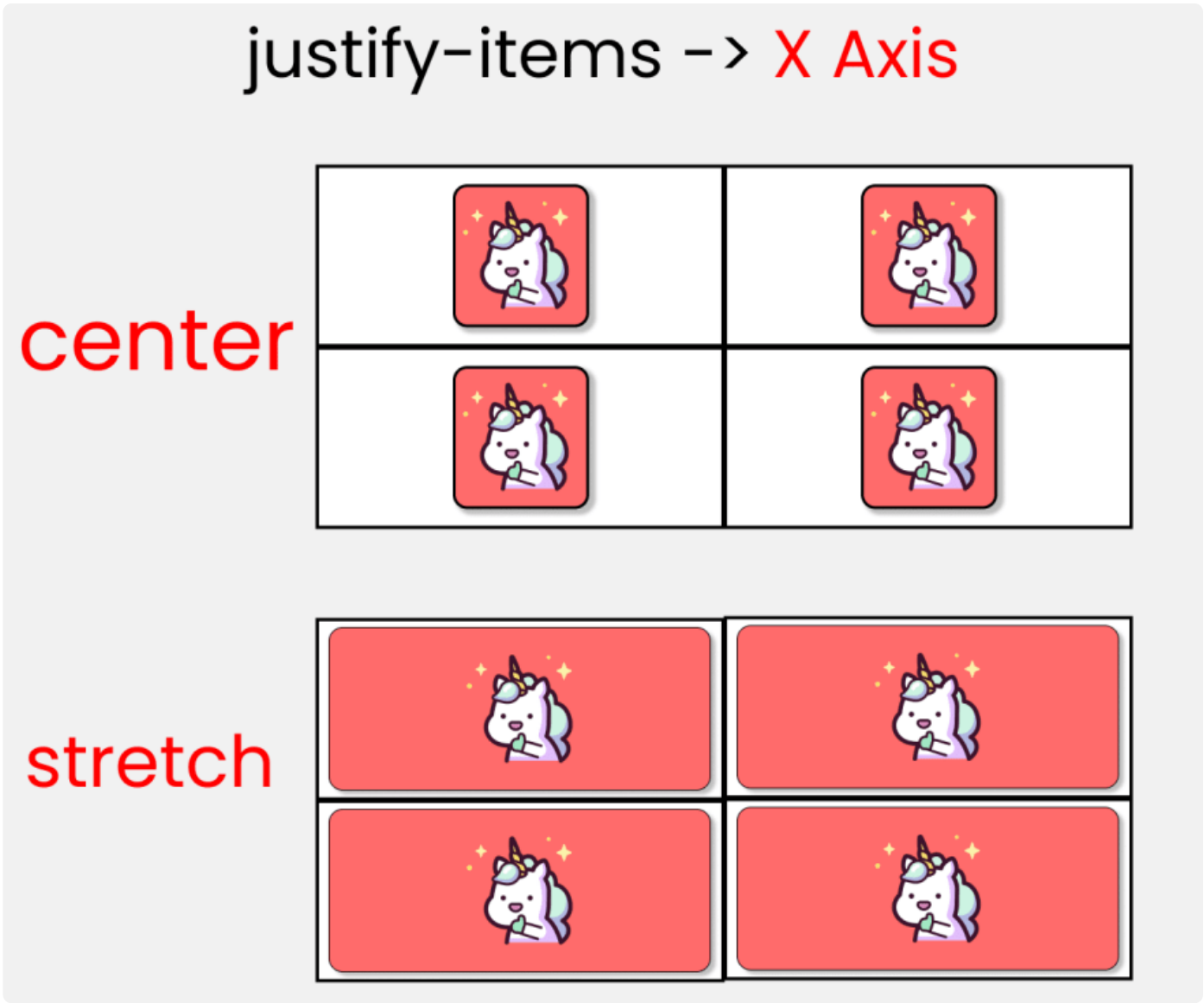
This is used to position grid-items (children) inside grid container along the **X-Axis[Main Axis]**. The **4** values are 👇

justify-items -> X Axis

Start

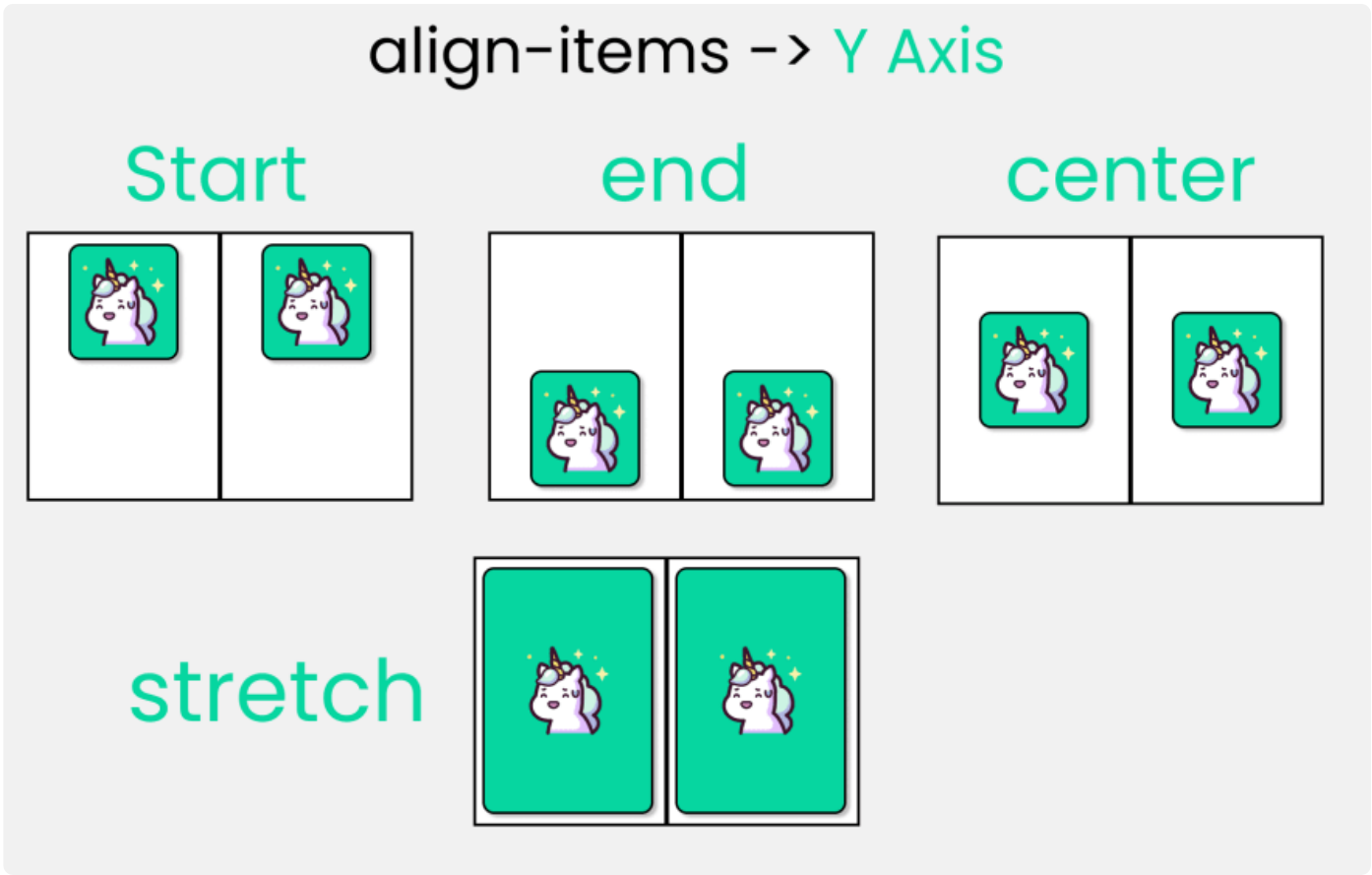
end





align-items :

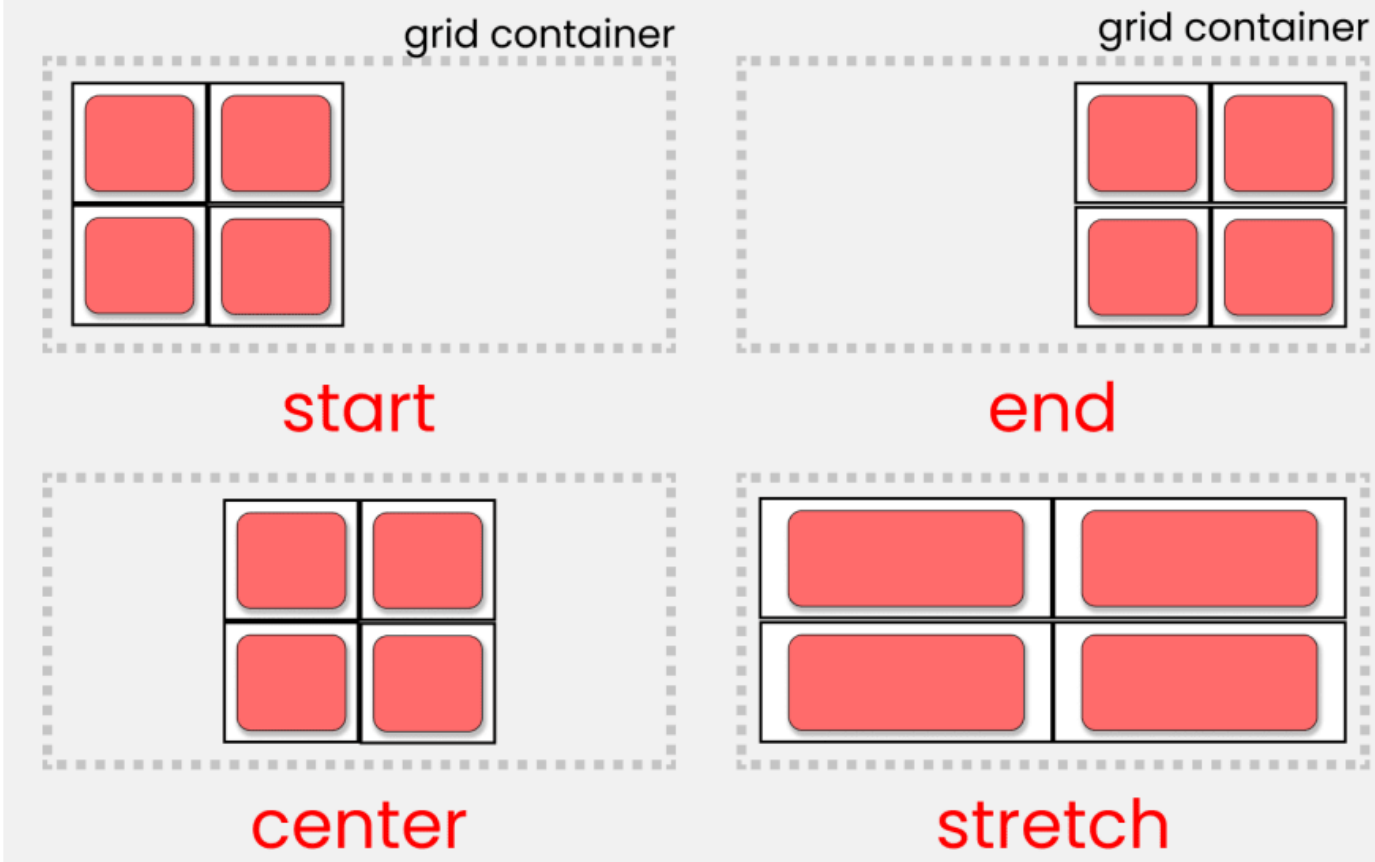
This is used to position grid-items (children) inside grid container along the **Y-Axis[Cross Axis]**. The **4** values are 👇



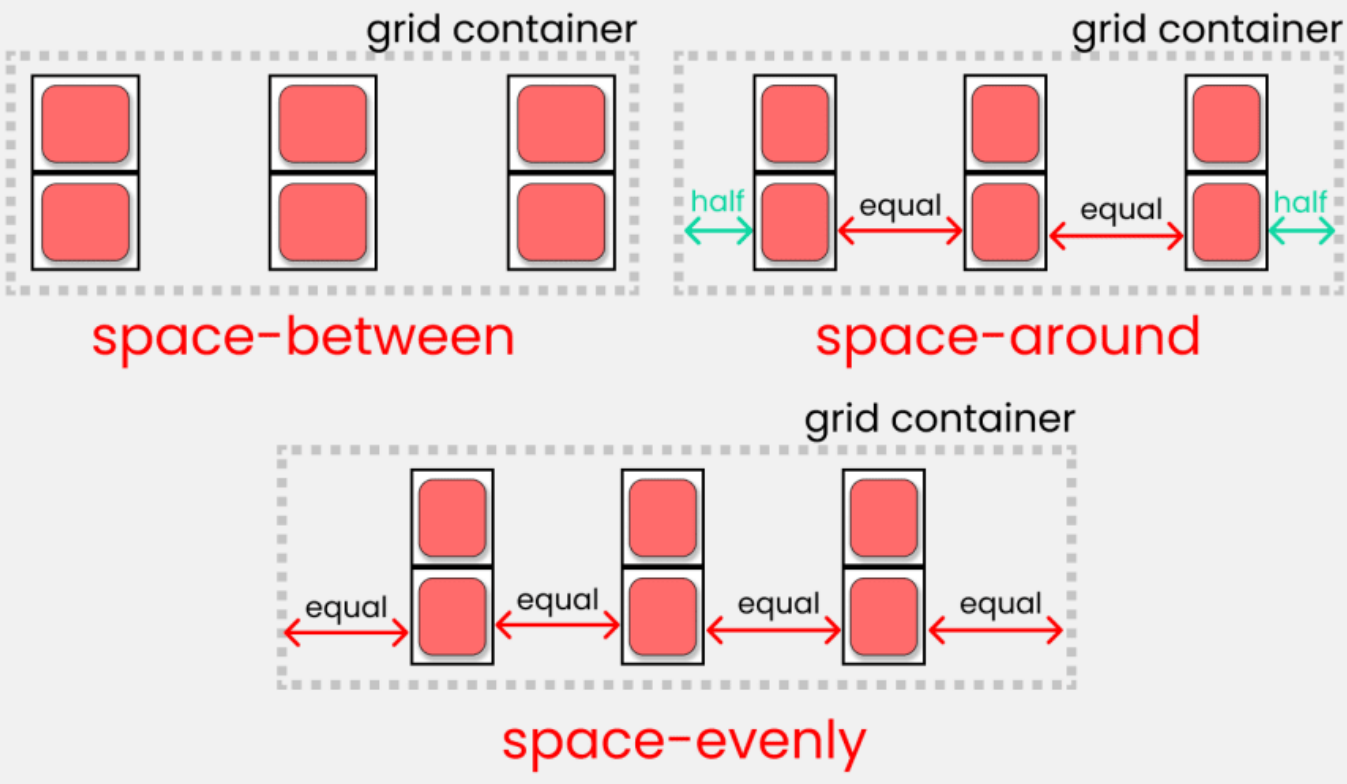
justify-content :

This is used to position our grid [Basically everything] inside grid container along the **X-Axis[Main Axis]**. The **7** values are 👇

justify-content -> X Axis

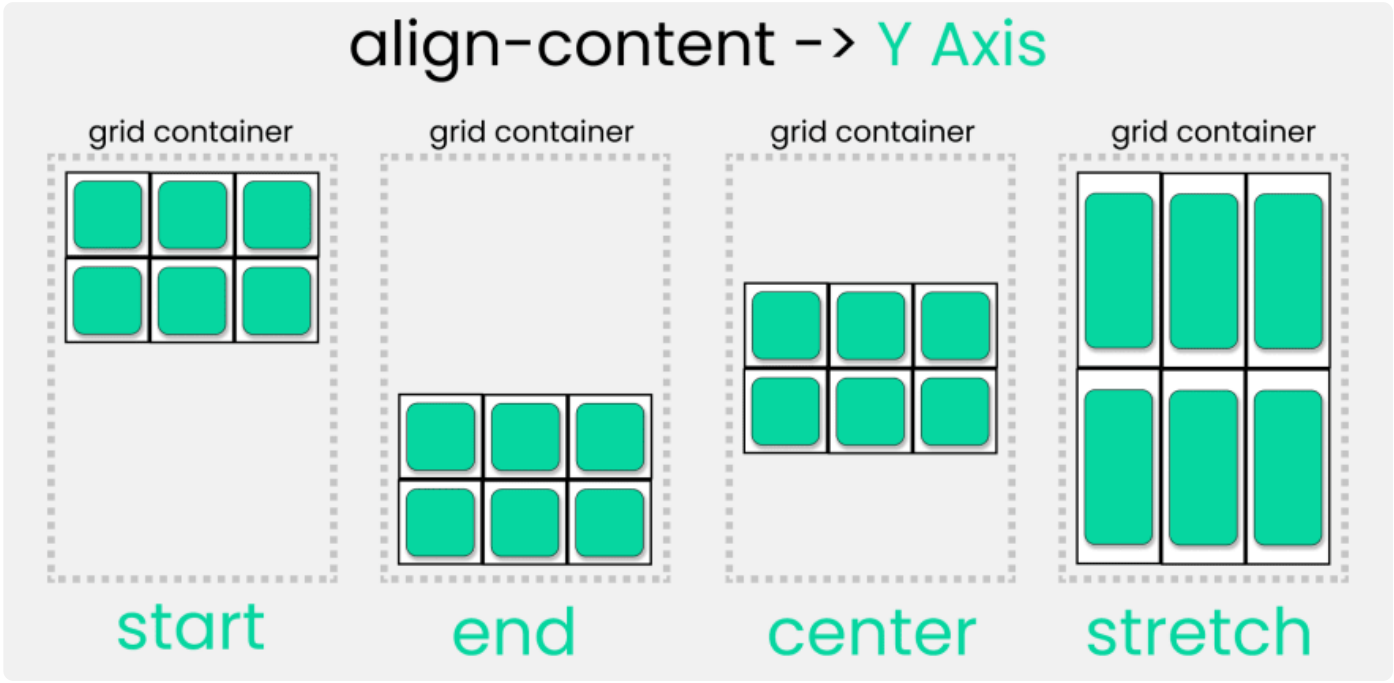


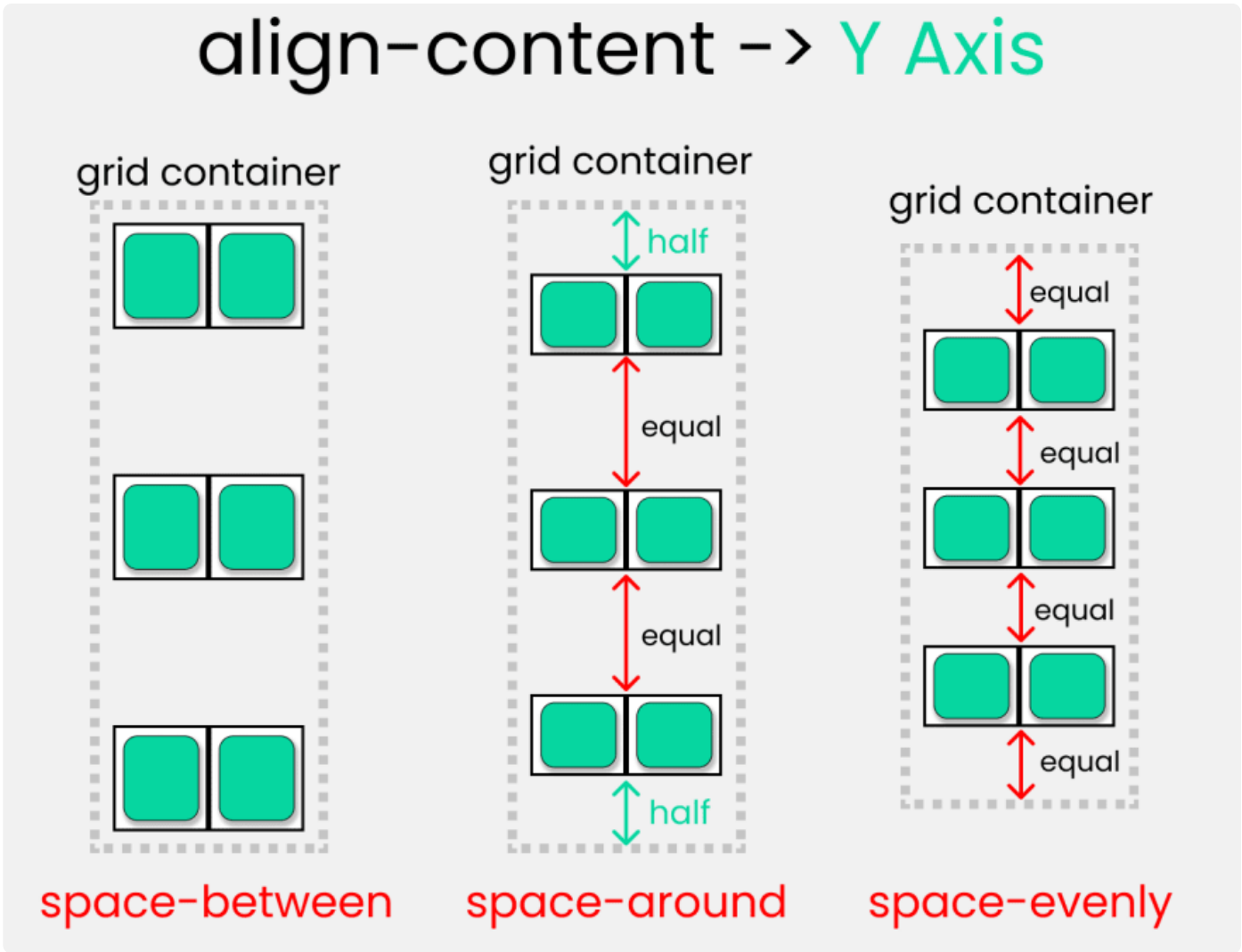
justify-content -> X Axis



align-content :

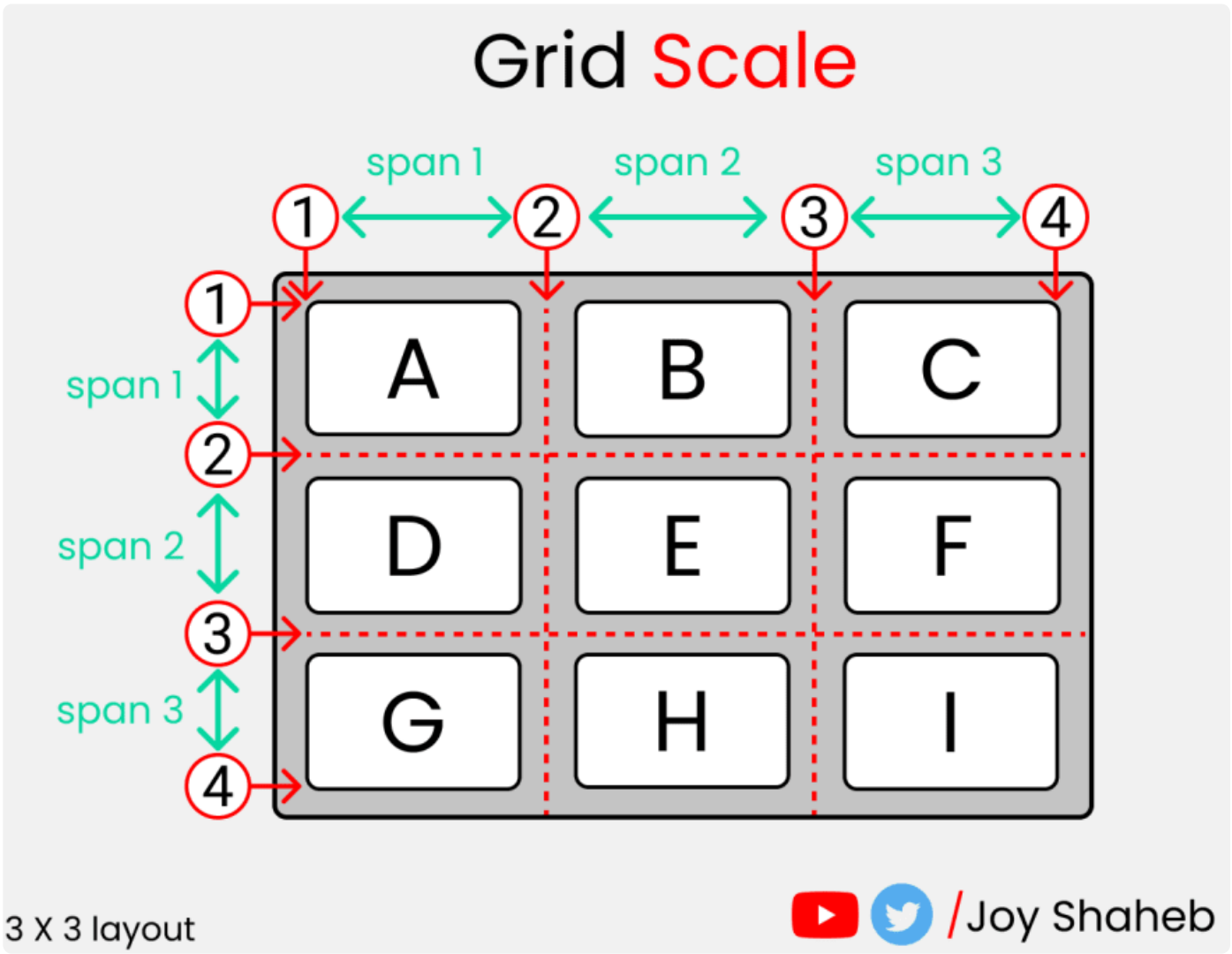
This is used to position our grid [Basically everything] inside grid container along the **Y-Axis[Cross Axis]**. The **7** values are 👇

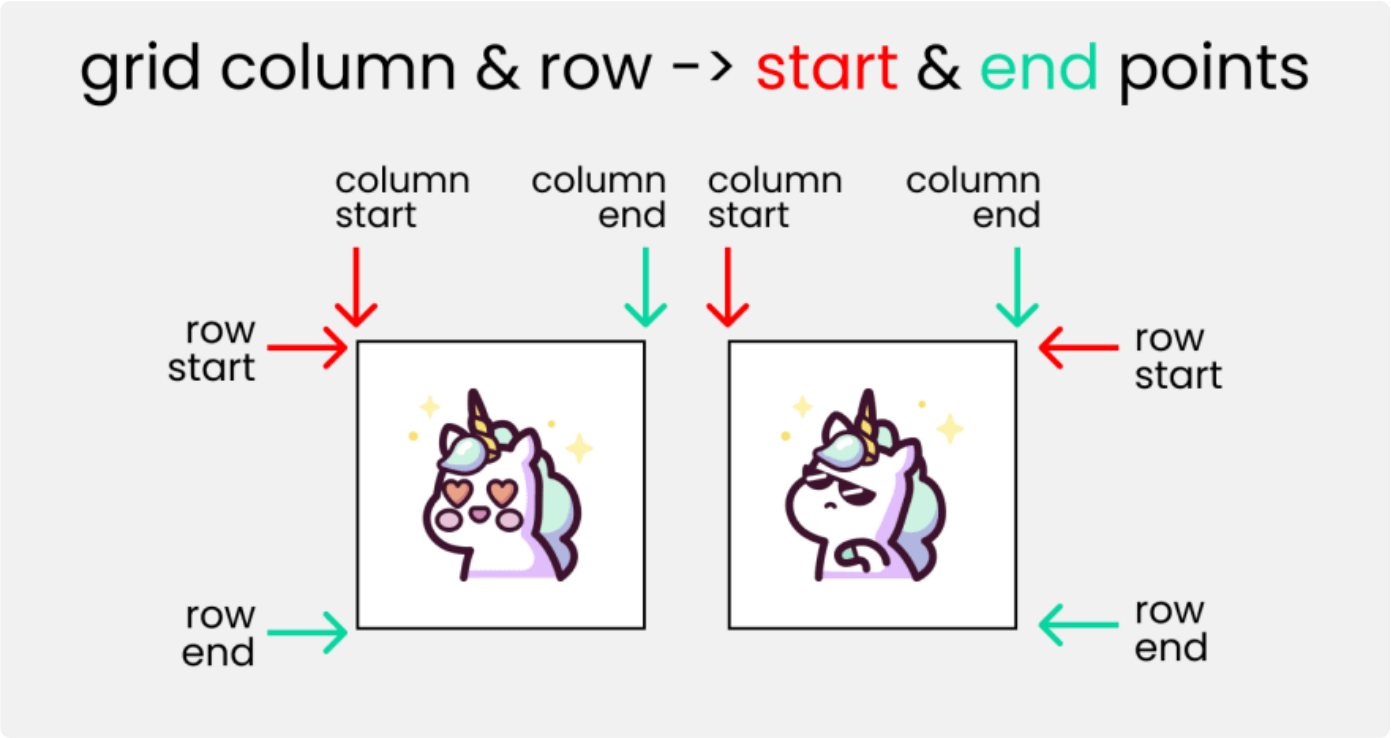




Children Properties

The Grid Scale





grid-column : start/end

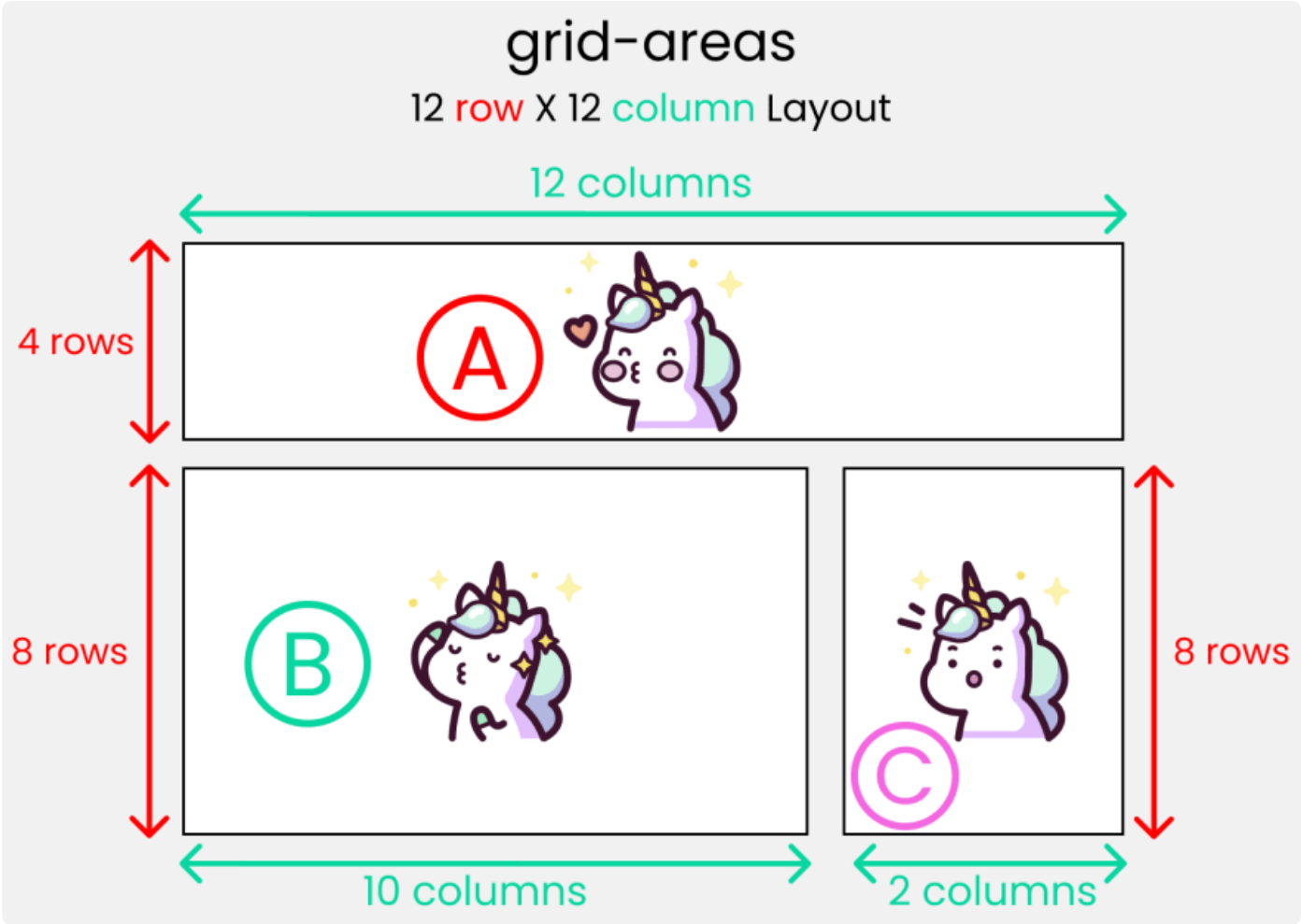
THESE 2 properties are used to join multiple **COLUMNS** together. It is a shorthand of **grid-column-start** & **grid-column-end** Skip to this topic on the video above if you're confused using the timestamps.

grid-row : start/end

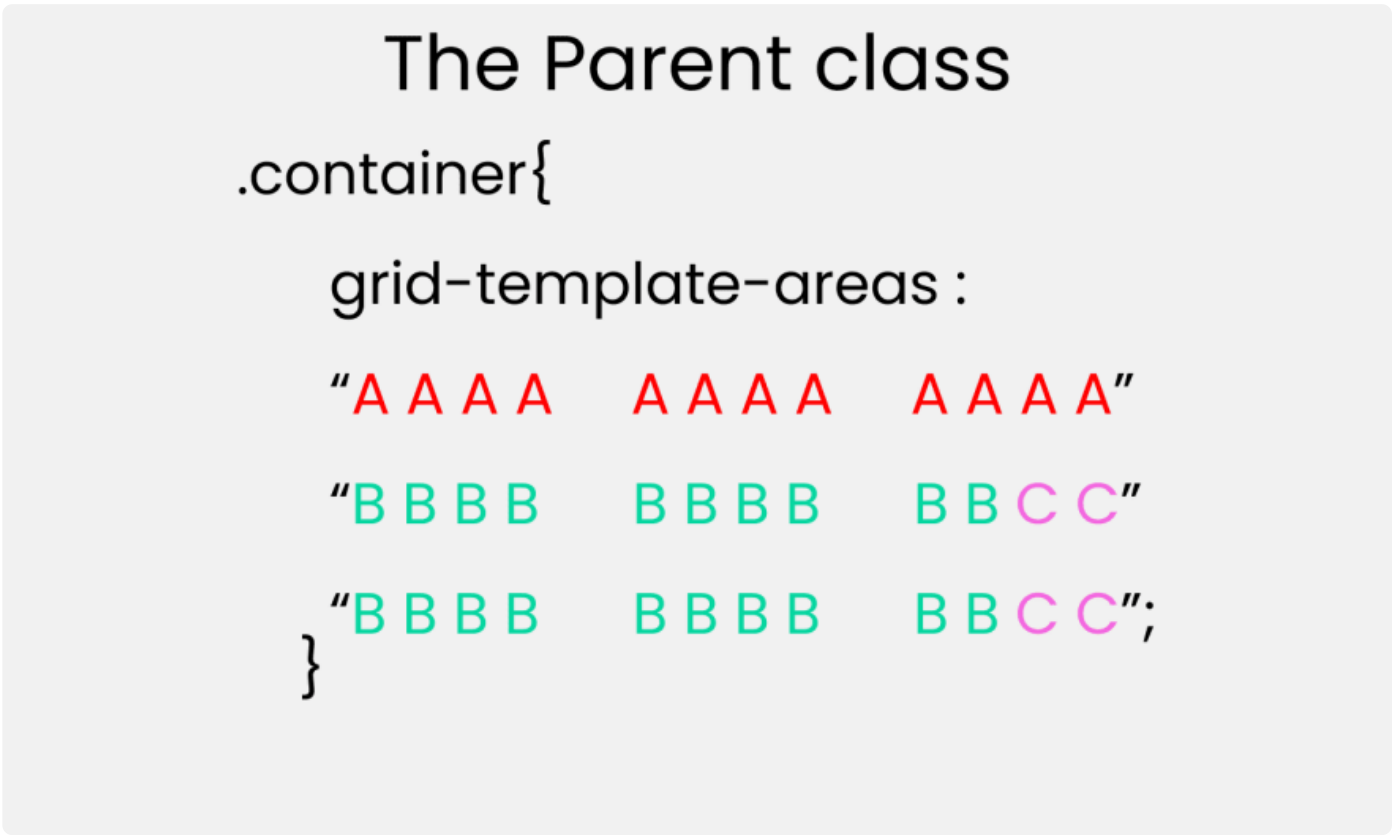
THESE 2 properties are used to join multiple **ROWS** together. It is a shorthand of **grid-row-start** & **grid-row-end**
Skip to this topic on the video above if you're confused using the timestamps.

grid-area :

At first, we need to setup grid-template-areas ☝ Once done, we have to specify the names used in parent class inside the children classes, like this👇



Specifying grid-template-areas inside parent container 👇



specifying the names used in parent container inside children classes with grid-areas 👇

The Children classes

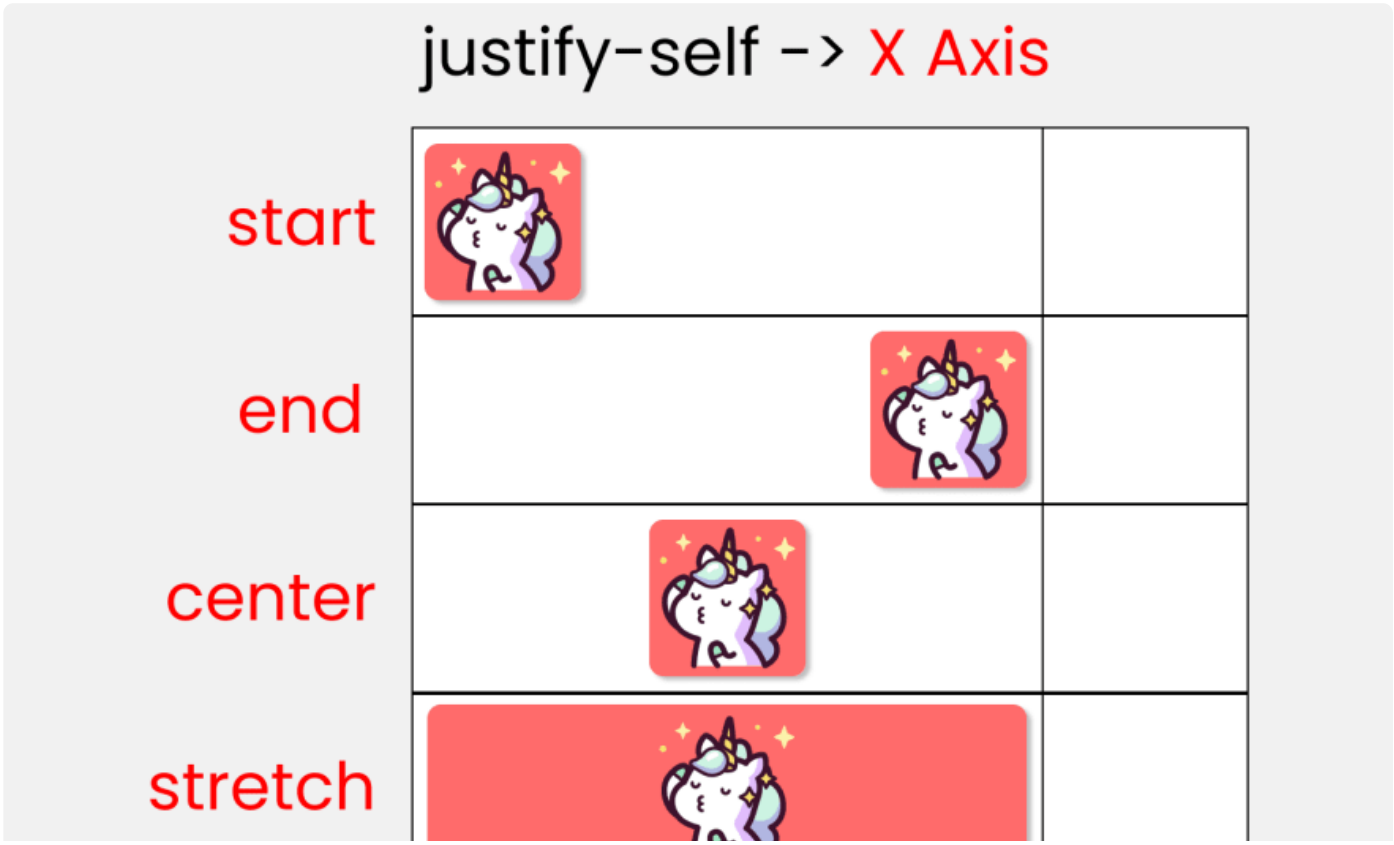
```
.image-1{
    grid-area : A ;
}

.image-2{
    grid-area : B ;
}

.image-3{
    grid-area : C ;
}
```

Justify-self :

This is used to position **1 individual** grid-item (children) inside grid container along the **X-Axis[Main Axis]**. The **4** values are 👇



align-self :

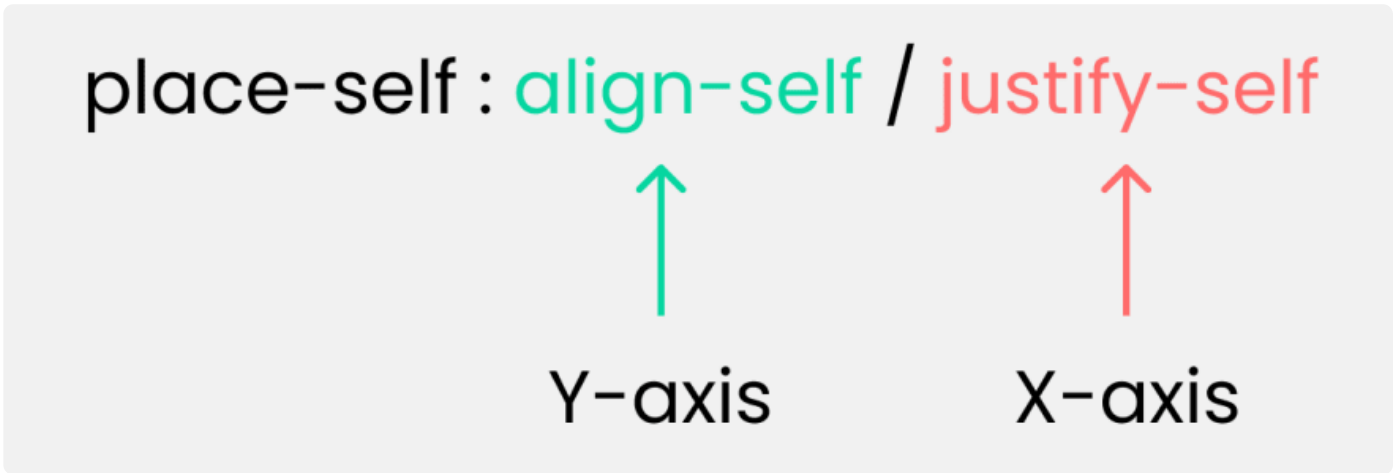
This is used to position **1 individual** grid-item (children) inside grid container along the **Y-Axis[Cross Axis]**. The **4** values are 👇

Short Hands

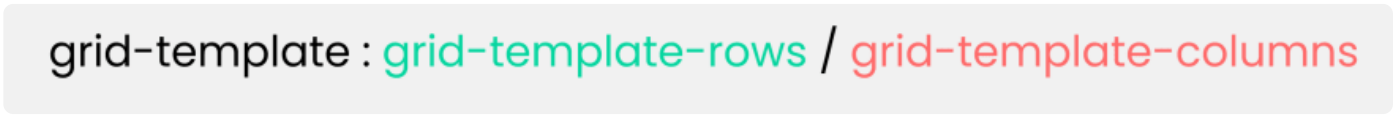
place-content :

place-items :

place-self :



grid-template :



gap/grid-gap :

gap/grid-gap :

```
gap : row-gap  column-gap;
```

Credits

Unicorns

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Conclusion

Here's Your Medal For reading till the end ❤️

Suggestions & Criticisms Are Highly Appreciated ❤️