





Flexbox (1D Layout)

Flexbox is used for one-dimensional layouts (rows or columns).

Parent (Container) Properties

Property	Description	Values
<code>display: flex;</code>	Activates flexbox layout for the container.	N/A
<code>flex-direction</code>	Defines the direction of flex items.	<code>row</code> (default), <code>row-reverse</code> , <code>column</code> , <code>column-reverse</code>
<code>justify-content</code> 	Aligns items horizontally in the container.	<code>flex-start</code> , <code>flex-end</code> , <code>center</code> , <code>space-between</code> , <code>space-around</code> , <code>space-evenly</code>
<code>align-items</code> 	Aligns items vertically in the container.	<code>flex-start</code> , <code>flex-end</code> , <code>center</code> , <code>baseline</code> , <code>stretch</code>
<code>align-content</code> 	Aligns multiple lines of items (if wrapping is enabled) vertically .	Same values as <code>align-items</code>
<code>flex-wrap</code>	Controls whether items wrap to a new row/column if needed.	<code>nowrap</code> (default), <code>wrap</code> , <code>wrap-reverse</code>





Child (Item) Properties

Property	Description	Values
<code>order</code>	Changes the order of items.	Integer (e.g., <code>1</code> , <code>-1</code>)
<code>flex-grow</code>	Controls how much an item grows relative to others.	Number (e.g., <code>0</code> , <code>1</code> , <code>2</code>)
<code>flex-shrink</code>	Controls how much an item shrinks relative to others.	Number (e.g., <code>0</code> , <code>1</code> , <code>2</code>)
<code>flex-basis</code>	Specifies the initial size of an item (before growing/shrinking).	<code>auto</code> , length units (e.g., <code>50%</code> , <code>100px</code>)
<code>align-self</code> 	Overrides <code>align-items</code> for a specific item.	Same values as <code>align-items</code>



🌟 Grid (2D Layout)

Grid is used for two-dimensional layouts (rows and columns).



Parent (Container) Properties

Property	Description	Values
<code>display: grid;</code>	Activates grid layout for the container.	N/A
<code>grid-template-columns</code>	Defines the columns in the grid.	Length units (e.g., <code>100px</code> , <code>1fr</code> , <code>auto</code>)
<code>grid-template-rows</code>	Defines the rows in the grid.	Same as above
<code>grid-template-areas</code>	Defines named areas of the grid layout.	Text values matching child <code>grid-area</code> names.
<code>gap</code>	Sets spacing between rows and columns.	<code>10px</code> , <code>1rem</code> , etc.
<code>justify-items</code> 	Aligns items horizontally within their grid cell.	<code>start</code> , <code>end</code> , <code>center</code> , <code>stretch</code>
<code>align-items</code> 	Aligns items vertically within their grid cell.	Same values as <code>justify-items</code>
<code>justify-content</code> 	Aligns the entire grid horizontally inside the container.	Same values as Flexbox
<code>align-content</code> 	Aligns the entire grid vertically inside the container.	Same values as Flexbox

Child (Item) Properties

Property	Description	Values
<code>grid-column</code>	Specifies which column(s) an item spans.	<code>start / end</code> (e.g., <code>1 / 3</code>)
<code>grid-row</code>	Specifies which row(s) an item spans.	Same as <code>grid-column</code>
<code>grid-area</code>	Assigns an item to a named area in the grid.	Matches the names in <code>grid-template-areas</code> .
<code>justify-self</code> 	Aligns an item horizontally within its cell (overrides container).	<code>start</code> , <code>end</code> , <code>center</code> , <code>stretch</code>
<code>align-self</code> 	Aligns an item vertically within its cell (overrides container).	Same values as <code>justify-self</code>

Justify vs. Align (Flex/Grid)

Aspect	Justify	Align
Direction	Horizontal 	Vertical 
Target	Items inside the container	Items or the entire container
When Used	Space distribution across the main axis	Space distribution along the cross axis

This cheat sheet should help you quickly reference and understand the key properties of Flexbox and Grid! 🎉

