Grids and flexbox cheat sheet

Note: '|' stands for alternatives or OR.

Grid

The syntax for creating a grid:

```
selector{
    display: grid; /* or inline-grid */
}
```

Grid shorthand consists of the following properties with default values:

grid

A grid will allow you organize the various elements on your page.

grid-template-rows: none

This feature allows you configure your elements so that they are organized similarly to rows on a table.

grid-template-columns: none

This feature allows you configure your elements but with this setting the elements are organized like columns on a table.

grid-template-areas: none

This feature allows you configure the names of a grid and how they sit in relation to one another.

grid-auto-rows: auto

Default setting for all row sizes that have not been explicitly configured.

grid-auto-columns: auto

Default setting for all column sizes that have not been explicitly configured.

grid-auto-flow: row

Default location for rows that are not explicitly allocated.

column-gap: normal

This sets the gap between the columns

row-gap: normal

This sets the gap between the rows

Grid properties for container

grid-template-columns: measurement units | % units |repeat()

Defines the line names, and maintains a constant size of column items. Can accept a range of different measurement sizes.

grid-template-rows: measurement units | % units |repeat()

Defines the line names, and maintains a constant size of rows. Can accept a range of different measurement sizes.

grid-auto-columns: measurement unit (fixed value for all columns)

Determines the default size for columns that have not been explicitly configured.

grid-auto-rows: measurement unit (fixed value for all rows)

Determines the default size for rows that have not been explicitly configured.

grid-template: "header header" auto

This allows you define and maintain named cells on a grid

"main right" 75vh

This defines two cells named main and right, that have a sizing of 75% of the viewport height.

"footer footer" 20rem

This defines two cells named footer and footer, that have a sizing of 20 root em (rem). This defines the size in relation to the html font size.

Gap

grid-gap: measurement units

Determines the gap between rows and columns

grid-column-gap: measurement units

Determines the gap between columns

grid-row-gap: m-unit-1 m-unit-2

Determines the gap between columns

Alignment

justify-items: start | center | end | stretch

Defines the default space that is allot to each item on the grid

align-items: start | center | end | stretch

Defines the default space related to an item along the grid's block axis

place-items: start | stretch /* shorthand for two properties above */

This feature allows you align items with the block and inline directions.

Justification

justify-content: start | center | end | stretch | space-between | space-evenly | space-around

Defines browser allocation of space to content items in relation to the main-axis

align-content: start | center | end | stretch | space-between | space-evenly | space-around

Defines browser allocation of space to content items in relation to cross axis and block axis

place-content: center | start

This feature allows you align items with the block and inline directions.

Positioning

grid-auto-flow: row | column | dense

This relates to how the items are placed automatically within the grid

grid-auto-columns: measurement units

This relates to the size for columns created without specific size specifications

grid-auto-rows: measurement units

This relates to the size for rows created without specific size specifications

Grid properties for items (child)

grid-column: column position /* E.g. 1/2 */

Allows for specifying where on the grid the column is to start.

grid-column-start: column start position

This property determines the starting column position an item is placed on a grid.

grid-column-end: column end position

This property determines the end column position an item is placed on a grid.

grid-row: row position /* E.g. 1/2 */

Allows for specifying where on the grid the row is to start.

grid-row-start: row start position

This property determines the starting row position an item is placed on a grid.

grid-row-end: row end position

This property determines the end row position an item is placed on a grid.

Justification and alignment

justify-self: start | center | end | stretch

Determines how an item is positioned inside its aligned container in relation to the appropriate axis.

align-self: start | center | end | stretch

Aligns an item within a grid area.

place-self: start | stretch /* shorthand for two properties above */

This setting lets one align and justify an item within a block.