# • (#aa-properties-for-the-parentgrid-container) Properties for the Parent (Grid Container)

# ♡\_(#aa-display)\_ display

Defines the element as a grid container and establishes a new grid formatting context for its contents.

#### Values:

- grid generates a block-level grid
- inline-grid generates an inline-level grid

```
.container {
  display: grid | inline-grid;
}
```

The ability to pass grid parameters down through nested elements (aka subgrids) has been moved to level 2 of the CSS Grid

Hey! specification. (https://www.w3.org/TR/css-grid-2/#subgrids). Here's a quick explanation (https://css-tricks.com/grid-level-2-and-subgrid/).

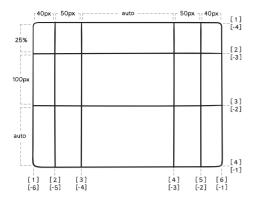
# (#aa-grid-template-columnsgrid-template-rows) grid-template-columns grid-template-rows

Defines the columns and rows of the grid with a space-separated list of values. The values represent the track size, and the space between them represents the grid line.

#### Values:

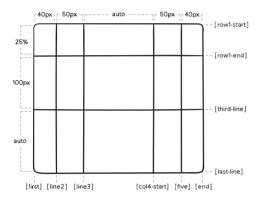
- <track-size> can be a length, a percentage, or a fraction of the free space in the grid
   (using the fr (https://css-tricks.com/introduction-fr-css-unit/) unit)
- <name</li>

Grid lines are automatically assigned positive numbers from these assignments (-1 being an alternate for the very last row).



But you can choose to explicitly name the lines. Note the bracket syntax for the line names:

```
.container {
  grid-template-columns: [first] 40px [line2] 50px [line3] auto [col4-start] 50px [five] 40px [end];
  grid-template-rows: [row1-start] 25% [row1-end] 100px [third-line] auto [last-line];
}
```



Note that a line can have more than one name. For example, here the second line will have two names: row1-end and row2-start:

```
.container {
  grid-template-rows: [row1-start] 25% [row1-end row2-start] 25% [row2-end];
}
```

If your definition contains repeating parts, you can use the repeat() notation to streamline things:

```
.container {
  grid-template-columns: repeat(3, 20px [col-start]);
}
```

Which is equivalent to this:

```
.container {
  grid-template-columns: 20px [col-start] 20px [col-start];
}
```

If multiple lines share the same name, they can be referenced by their line name and count.

```
.item {
  grid-column-start: col-start 2;
}
```

The fr unit allows you to set the size of a track as a fraction of the free space of the grid container. For example, this will set each item to one third the width of the grid container:

```
.container {
  grid-template-columns: 1fr 1fr;
}
```

The free space is calculated *after* any non-flexible items. In this example the total amount of free space available to the fr units doesn't include the 50px:

```
.container {
  grid-template-columns: 1fr 50px 1fr 1fr;
}
```

## (#aa-grid-template-areas) grid-template-areas

Defines a grid template by referencing the names of the grid areas which are specified with the grid—area (https://css-tricks.com/snippets/css/complete—guide—grid/#prop—grid—area) property. Repeating the name of a grid area causes the content to span those cells. A period signifies an empty cell. The syntax itself provides a visualization of the structure of the grid.

#### Values:

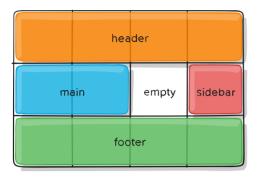
- **<grid-area-name>** the name of a grid area specified with **grid-area** (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-area)
- - a period signifies an empty grid cell
- none no grid areas are defined

```
.container {
  grid-template-areas:
  "<grid-area-name> | . | none | ..."
  "...";
}
```

```
.item-a {
    grid-area: header;
}
.item-b {
    grid-area: main;
}
.item-c {
    grid-area: sidebar;
}
.item-d {
    grid-area: footer;
}
.container {
    display: grid;
    grid-template-columns: 50px 50px 50px;
    grid-template-rows: auto;
    grid-template-areas:
    "header header header"
    "main main . sidebar"
```

```
"footer footer footer";
```

That'll create a grid that's four columns wide by three rows tall. The entire top row will be composed of the **header** area. The middle row will be composed of two **main** areas, one empty cell, and one **sidebar** area. The last row is all **footer**.



Each row in your declaration needs to have the same number of cells.

You can use any number of adjacent periods to declare a single empty cell. As long as the periods have no spaces between them they represent a single cell.

Notice that you're not naming lines with this syntax, just areas. When you use this syntax the lines on either end of the areas are actually getting named automatically. If the name of your grid area is *foo*, the name of the area's starting row line and starting column line will be *foo*-start, and the name of its last row line and last column line will be *foo*-end. This means that some lines might have multiple names, such as the far left line in the above example, which will have three names: header-start, main-start, and footer-start.

## ○ (#aa-grid-template) grid-template

A shorthand for setting grid-template-rows (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-columns-rows), grid-template-columns (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-columns-rows), and grid-template-areas (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-areas) in a single declaration.

## Values:

- **none** sets all three properties to their initial values
- <grid-template-rows>/ <grid-template-columns> sets grid-template columns (https://css-tricks.com/snippets/css/complete-guide-grid/#prop grid-template-columns-rows) and grid-template-rows (https://css tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-columns rows) to the specified values, respectively, and sets grid-template-areas (https://css tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-areas)
   to none

```
.container {
  grid-template: none | <grid-template-rows> / <grid-template-columns>;
```

}

It also accepts a more complex but quite handy syntax for specifying all three. Here's an example:

```
.container {
  grid-template:
    [row1-start] "header header" 25px [row1-end]
    [row2-start] "footer footer" 25px [row2-end]
    / auto 50px auto;
}
```

That's equivalent to this:

```
.container {
  grid-template=rows: [row1-start] 25px [row1-end row2-start] 25px [row2-end];
  grid-template=columns: auto 50px auto;
  grid-template=areas:
   "header header"
   "footer footer footer";
}
```

Since grid—template doesn't reset the <code>implicit</code> grid properties (grid—auto—columns (https://css—tricks.com/snippets/css/complete—guide—grid/#prop—grid—auto—columns—rows) , grid—auto—rows (https://css—tricks.com/snippets/css/complete—guide—grid/#prop—grid—auto—columns—rows) , and grid—auto—flow (https://css—tricks.com/snippets/css/complete—guide—grid/#prop—grid—auto—flow) ), which is probably what you want to do in most cases, it's recommended to use the grid (https://css—tricks.com/snippets/css/complete—guide—grid/#prop—grid) property instead of grid—template.

Specifies the size of the grid lines. You can think of it like setting the width of the gutters between the columns/rows.

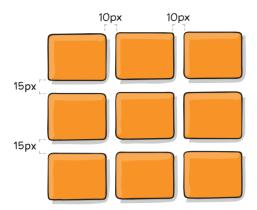
Values:

• line-size> - a length value

```
.container {
  /* standard */
  column-gap: <line-size>;
  row-gap: <line-size>;

  /* old */
  grid-column-gap: <line-size>;
  grid-row-gap: <line-size>;
}
```

```
container {
  grid-template-columns: 100px 50px 100px;
  grid-template-rows: 80px auto 80px;
  column-gap: 10px;
  row-gap: 15px;
}
```



The gutters are only created *between* the columns/rows, not on the outer edges.

Note: The grid-prefix will be removed and grid-column-gap and grid-row-gap renamed to column-gap and row-gap. The unprefixed properties are already supported in Chrome 68+, Safari 11.2 Release 50+, and Opera 54+.

# (#aa-gapgrid-gap) gap grid-gap

A shorthand for row-gap (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-gap) and column-gap (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-gap)

Values:

• <grid-row-gap> <grid-column-gap> - length values

```
.container {
  /* standard */
  gap: <grid-row-gap> <grid-column-gap>;

  /* old */
  grid-gap: <grid-row-gap> <grid-column-gap>;
}
```

## Example:

```
.container {
  grid-template-columns: 100px 50px 100px;
  grid-template-rows: 80px auto 80px;
  gap: 15px 10px;
}
```

If no row-gap (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-gap) is specified, it's set to the same value as column-gap

(https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-columnrow-gap)

**Note**: The grid- prefix is deprecated (but who knows, may never actually be removed from browsers). Essentially grid-gap renamed to gap. The unprefixed property is already supported in Chrome 68+, Safari 11.2 Release 50+, and Opera 54+.

## ① (#aa-justify-items) justify-items

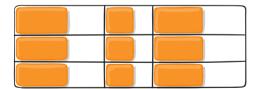
Aligns grid items along the *inline* (row) axis (as opposed to align—items (https://css—tricks.com/snippets/css/complete—guide—grid/#prop—align—items) which aligns along the *block* (column) axis). This value applies to all grid items inside the container.

## Values:

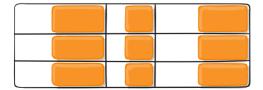
- start aligns items to be flush with the start edge of their cell
- end aligns items to be flush with the end edge of their cell
- center aligns items in the center of their cell
- **stretch** fills the whole width of the cell (this is the default)

```
.container {
   justify-items: start | end | center | stretch;
}
```

```
.container {
  justify-items: start;
```



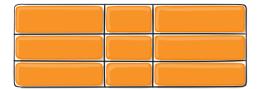
```
.container {
  justify-items: end;
```



```
.container {
  justify-items: center;
}
```



```
.container {
  justify-items: stretch;
}
```



This behavior can also be set on individual grid items via the justify-self (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-justify-self) property.

## □\_(#aa-align-items)\_ align-items

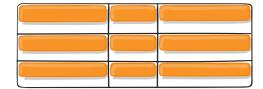
Aligns grid items along the *block* (*column*) axis (as opposed to <u>justify-items</u> (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-justify-items) which aligns along the *inline* (*row*) axis). This value applies to all grid items inside the container.

## Values:

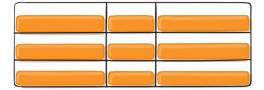
- **stretch** fills the whole height of the cell (this is the default)
- start aligns items to be flush with the start edge of their cell
- end aligns items to be flush with the end edge of their cell
- **center** aligns items in the center of their cell
- **baseline** align items along text baseline (https://codepen.io/chriscoyier/pen/NWvvPRj). There are modifiers to baseline first baseline and last baseline which will use the baseline from the first or last line in the case of multi-line text.

```
.container {
   align-items: start | end | center | stretch;
}
```

```
.container {
   align-items: start;
}
```



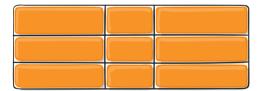
```
.container {
   align-items: end;
}
```



```
.container {
  align-items: center;
```



```
.container {
  align-items: stretch;
```



This behavior can also be set on individual grid items via the align-self (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-align-self) property.

There are also modifier keywords safe and unsafe (usage is like align—items: safe end). The safe keyword means "try to align like this, but not if it means aligning an item such that it moves into inaccessible overflow area", while unsafe will allow moving content into inaccessible areas ("data loss").

```
□ (#aa-place-items) place-items
```

place—items sets both the align—items and justify—items properties in a single declaration.

Values:

<align-items>/<justify-items> - The first value sets align-items, the second value justify-items. If the second value is omitted, the first value is assigned to both properties.

For more details, see align-items (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-align-items) and justify-items (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-justify-items).

This can be very useful for super quick multi-directional centering:

```
.center {
  display: grid;
  place—items: center;
}
```

```
○ (#aa-justify-content) justify-content
```

Sometimes the total size of your grid might be less than the size of its grid container. This could happen if all of your grid items are sized with non-flexible units like px. In this case you can set the alignment of the grid within the grid container. This property aligns the grid along the <code>inline (row)</code> axis (as opposed to <code>align-content (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-align-content) which aligns the grid along the <code>block (column)</code> axis).</code>

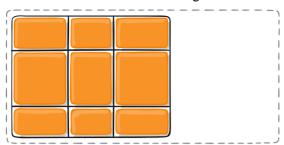
### Values:

- start aligns the grid to be flush with the start edge of the grid container
- end aligns the grid to be flush with the end edge of the grid container
- **center** aligns the grid in the center of the grid container
- stretch resizes the grid items to allow the grid to fill the full width of the grid container
- **space-around** places an even amount of space between each grid item, with half-sized spaces on the far ends
- **space-between** places an even amount of space between each grid item, with no space at the far ends
- space-evenly places an even amount of space between each grid item, including the far
  ends

```
.container {
  justify-content: start | end | center | stretch | space-around | space-between | space-evenly;
}
```

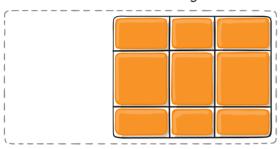
```
.container {
  justify-content: start;
}
```

# grid container



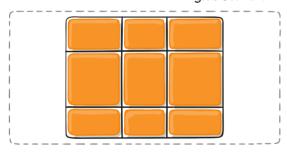
```
.container {
  justify-content: end;
}
```

# grid container

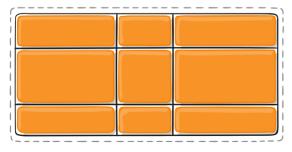


```
.container {
  justify-content: center;
```

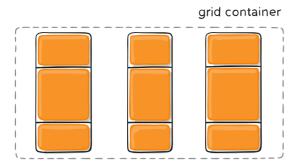
# grid container



```
.container {
  justify-content: stretch;
}
```

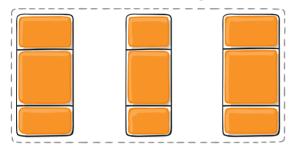


```
.container {
  justify-content: space-around;
```



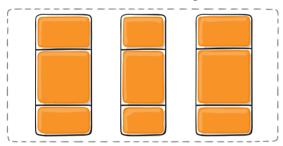
```
.container {
  justify-content: space-between;
}
```

## grid container



```
.container {
   justify-content: space-evenly;
```

## grid container



# □\_(#aa-align-content)\_ align-content

Sometimes the total size of your grid might be less than the size of its grid container. This could happen if all of your grid items are sized with non-flexible units like px. In this case you can set the alignment of the grid within the grid container. This property aligns the grid along the block (column) axis (as opposed to justify-content (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-justify-content) which aligns the grid along the inline (row) axis).

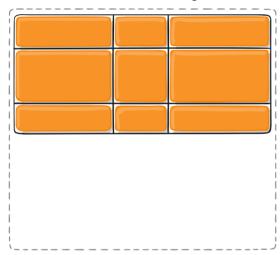
Values:

- **start** aligns the grid to be flush with the start edge of the grid container
- end aligns the grid to be flush with the end edge of the grid container
- center aligns the grid in the center of the grid container
- **stretch** resizes the grid items to allow the grid to fill the full height of the grid container
- **space-around** places an even amount of space between each grid item, with half-sized spaces on the far ends
- **space-between** places an even amount of space between each grid item, with no space at the far ends
- **space-evenly** places an even amount of space between each grid item, including the far ends

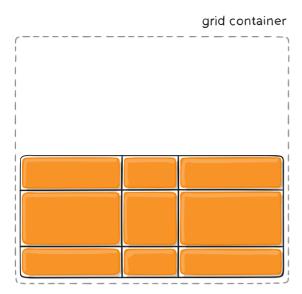
```
.container {
  align-content: start | end | center | stretch | space-around | space-between | space-evenly;
}
```

## Examples:

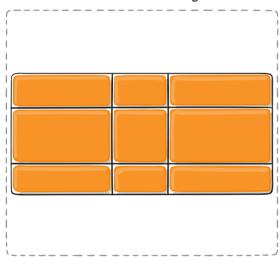
```
.container {
  align-content: start;
}
```



```
.container {
  align-content: end;
}
```

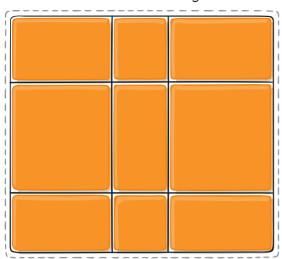


```
.container {
  align-content: center;
}
```

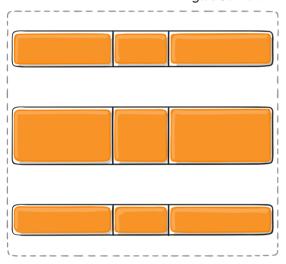


```
.container {
  align-content: stretch;
}
```

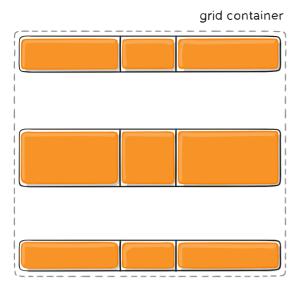
# grid container



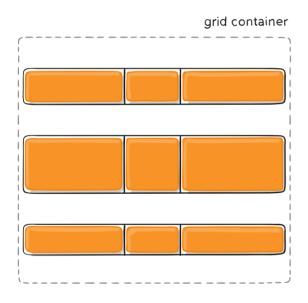
```
.container {
   align-content: space-around;
}
```



```
.container {
   align-content: space-between;
}
```



```
.container {
  align-content: space-evenly;
}
```



# ©\_(#aa-place-content)\_place-content

place—content sets both the align—content and justify—content properties in a single declaration.

## Values:

<align-content>/<justify-content> - The first value sets align-content, the
second value justify-content. If the second value is omitted, the first value is assigned to
both properties.

All major browsers except Edge support the place-content shorthand property.

For more details, see align-content (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-align-content) and justify-content (https://css-

tricks.com/snippets/css/complete-guide-grid/#prop-justify-content).

# ©\_(#aa-grid-auto-columnsgrid-auto-rows)\_ grid-auto-columns grid-auto-rows

Specifies the size of any auto-generated grid tracks (aka *implicit grid tracks*). Implicit tracks get created when there are more grid items than cells in the grid or when a grid item is placed outside of the explicit grid. (see The Difference Between Explicit and Implicit Grids (https://css-tricks.com/difference-explicit-implicit-grids/))

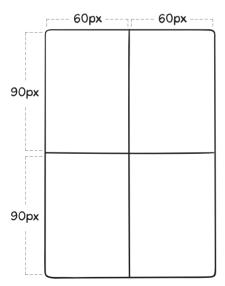
Values:

<track-size> - can be a length, a percentage, or a fraction of the free space in the grid (using the fr (https://css-tricks.com/snippets/css/complete-guide-grid/#fr-unit) unit)

```
.container {
  grid-auto-columns: <track-size> ...;
  grid-auto-rows: <track-size> ...;
}
```

To illustrate how implicit grid tracks get created, think about this:

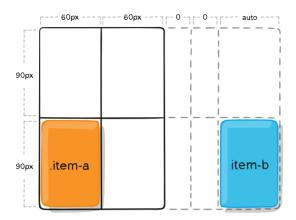
```
.container {
   grid-template-columns: 60px 60px;
   grid-template-rows: 90px 90px;
}
```



This creates a 2 x 2 grid.

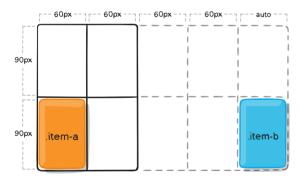
But now imagine you use grid-column (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row) and grid-row (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row) to position your grid items like this:

```
.item-a {
   grid-column: 1 / 2;
   grid-row: 2 / 3;
}
.item-b {
   grid-column: 5 / 6;
   grid-row: 2 / 3;
}
```



We told .item-b to start on column line 5 and end at column line 6, but we never defined a column line 5 or 6. Because we referenced lines that don't exist, implicit tracks with widths of 0 are created to fill in the gaps. We can use grid-auto-columns (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-columns-rows) and grid-auto-rows (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-columns-rows) to specify the widths of these implicit tracks:

```
.container {
  grid-auto-columns: 60px;
}
```



## ©\_(#aa-grid-auto-flow)\_ grid-auto-flow

If you have grid items that you don't explicitly place on the grid, the *auto-placement algorithm* kicks in to automatically place the items. This property controls how the autoplacement algorithm works.

Values:

- **row** tells the auto-placement algorithm to fill in each row in turn, adding new rows as necessary (default)
- **column** tells the auto-placement algorithm to fill in each column in turn, adding new columns as necessary
- dense tells the auto-placement algorithm to attempt to fill in holes earlier in the grid if smaller items come up later

```
.container {
  grid-auto-flow: row | column | row dense | column dense;
}
```

Note that **dense** only changes the visual order of your items and might cause them to appear out of order, which is bad for accessibility.

Examples:

Consider this HTML:

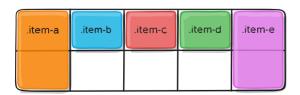
You define a grid with five columns and two rows, and set grid—auto—flow to row (which is also the default):

```
.container {
    display: grid;
    grid-template-columns: 60px 60px 60px 60px;
    grid-template-rows: 30px 30px;
    grid-auto-flow: row;
}
```

When placing the items on the grid, you only specify spots for two of them:

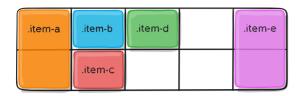
```
.item-a {
    grid-column: 1;
    grid-row: 1 / 3;
}
.item-e {
    grid-column: 5;
    grid-row: 1 / 3;
}
```

Because we set grid-auto-flow to row, our grid will look like this. Notice how the three items we didn't place (item-b, item-c and item-d) flow across the available rows:



If we instead set grid—auto—flow to column, **item-b**, **item-c** and **item-d** flow down the columns:

```
.container {
  display: grid;
  grid-template-columns: 60px 60px 60px 60px;
  grid-template-rows: 30px 30px;
  grid-auto-flow: column;
}
```



# ©\_(#aa-grid)\_grid

A shorthand for setting all of the following properties in a single declaration: grid-template-rows (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-columns-rows), grid-template-columns (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-columns-rows), grid-template-areas (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-areas), grid-auto-rows (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-columns-rows), grid-auto-columns (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-columns-rows), and grid-auto-flow (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-flow) (Note: You can only specify the explicit or the implicit grid properties in a single grid declaration).

## Values:

- **none** sets all sub-properties to their initial values.
- <grid-template> works the same as the grid-template (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template) shorthand.
- [ auto-flow && dense? ] <grid-auto-rows>? / <grid-template-columns> sets grid-template-columns (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-template-columns-rows) to the specified value. If the auto-flow keyword is to the left of the slash, it sets grid-auto-flow (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-flow) to row. If the dense keyword is specified additionally, the auto-placement algorithm uses a "dense" packing algorithm. If grid-auto-rows (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-auto-columns-rows) is omitted, it is set to auto.

Examples:

The following two code blocks are equivalent:

```
.container {
  grid: 100px 300px / 3fr 1fr;
}

.container {
  grid-template-rows: 100px 300px;
  grid-template-columns: 3fr 1fr;
}
```

The following two code blocks are equivalent:

```
.container {
  grid: auto-flow / 200px 1fr;
}
.container {
  grid-auto-flow: row;
  grid-template-columns: 200px 1fr;
}
```

The following two code blocks are equivalent:

```
.container {
  grid: auto-flow dense 100px / 1fr 2fr;
}
.container {
  grid-auto-flow: row dense;
  grid-auto-rows: 100px;
  grid-template-columns: 1fr 2fr;
}
```

And the following two code blocks are equivalent:

```
.container {
  grid: 100px 300px / auto-flow 200px;
}
.container {
  grid-template-rows: 100px 300px;
  grid-auto-flow: column;
  grid-auto-columns: 200px;
}
```

It also accepts a more complex but quite handy syntax for setting everything at once. You specify grid—template—areas (https://css-tricks.com/snippets/css/complete—guide—grid/#prop—grid—template—areas)\_, grid—template—rows (https://css-tricks.com/snippets/css/complete—guide—grid/#prop—grid—template—columns—rows)\_ and grid—template—columns (https://css-tricks.com/snippets/css/complete—guide—grid/#prop—grid—template—columns—rows)\_, and all the other sub-properties are set to their initial values. What you're doing is specifying the line names and track sizes inline with their respective grid areas. This is easiest to describe with an example:

```
.container {
  grid: [row1-start] "header header" 1fr [row1-end]
      [row2-start] "footer footer" 25px [row2-end]
      / auto 50px auto;
}
```

That's equivalent to this:

```
.container {
  grid-template-areas:
    "header header header"
    "footer footer footer";
  grid-template-rows: [row1-start] 1fr [row1-end row2-start] 25px [row2-end];
  grid-template-columns: auto 50px auto;
}
```

# • (#aa-properties-for-the-childrengrid-items) Properties for the Children (Grid Items)

Hey! float, display: inline-block, display: table-cell, vertical-align and column-\* properties have no effect on a grid item.

```
(#aa-grid-column-startgrid-column-endgrid-row-startgrid-row-end)
```

grid-column-start
grid-column-end
grid-row-start
grid-row-end

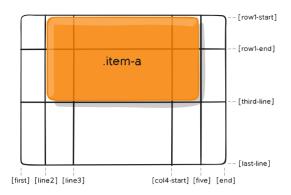
Determines a grid item's location within the grid by referring to specific grid lines. grid-column-start/grid-row-start is the line where the item begins, and grid-column-end/grid-row-end is the line where the item ends.

## Values:

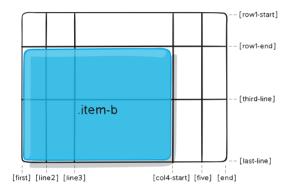
- **can be a number to refer to a numbered grid line, or a name to refer to a named grid line**
- **span <number>** the item will span across the provided number of grid tracks
- **span <name>** the item will span across until it hits the next line with the provided name
- auto indicates auto-placement, an automatic span, or a default span of one

```
.item {
    grid-column-start: <number> | <name> | span <number> | span <name> | auto;
    grid-column-end: <number> | <name> | span <number> | auto;
    grid-row-start: <number> | <name> | span <number> | span <name> | auto;
    grid-row-end: <number> | <name> | span <name> | auto;
    grid-row-end: <number> | <name> | span <name> | auto;
}
```

```
.item-a {
  grid-column-start: 2;
  grid-column-end: five;
  grid-row-start: row1-start;
  grid-row-end: 3;
}
```



```
.item-b {
  grid-column-start: 1;
  grid-column-end: span col4-start;
  grid-row-start: 2;
  grid-row-end: span 2;
}
```



If no grid-column-end/grid-row-end is declared, the item will span 1 track by default.

Items can overlap each other. You can use z-index to control their stacking order.

# (#aa-grid-columngrid-row) grid-column grid-row

Shorthand for grid-column-start (https://css-

tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-startend) + grid-column-end (https://css-tricks.com/snippets/css/complete-guidegrid/#prop-grid-column-row-start-end) , and grid-row-start (https://csstricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-startend) + grid-row-end (https://css-tricks.com/snippets/css/complete-guidegrid/#prop-grid-column-row-start-end) , respectively.

Values:

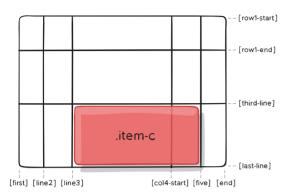
• **<start-line>** / **<end-line>** - each one accepts all the same values as the longhand version, including span

```
.item {
  grid-column: <start-line> / <end-line> | <start-line> / span <value>;
```

```
grid-row: <start-line> / <end-line> | <start-line> / span <value>;
```

#### Example:

```
.item-c {
  grid-column: 3 / span 2;
  grid-row: third-line / 4;
}
```



If no end line value is declared, the item will span 1 track by default.

## <sup>™</sup> (#aa-grid-area) grid-area

Gives an item a name so that it can be referenced by a template created with the gridtemplate—areas (https://css-tricks.com/snippets/css/complete—guide—
grid/#prop—grid—template—areas) property. Alternatively, this property can be used as
an even shorter shorthand for grid—row—start (https://css—
tricks.com/snippets/css/complete—guide—grid/#prop—grid—column—row—start—
end) + grid—column—start (https://css—tricks.com/snippets/css/complete—
guide—grid/#prop—grid—column—row—start—end) + grid—row—end (https://css—
tricks.com/snippets/css/complete—guide—grid/#prop—grid—column—row—start—
end) + grid—column—end (https://css—tricks.com/snippets/css/complete—guide—
grid/#prop—grid—column—row—start—end).

#### Values:

- <name> a name of your choosing
- <row-start>/<column-start>/<row-end>/<column-end> can be numbers or named lines

```
.item {
  grid-area: <name> | <row-start> / <column-start> / <row-end> / <column-end>;
}
```

## Examples:

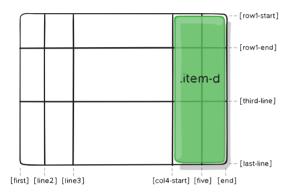
As a way to assign a name to the item:

```
.item-d {
  grid-area: header;
```

}

As the short-shorthand for grid-row-start (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-start-end) + grid-column-start (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-start-end) + grid-row-end (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-start-end) + grid-column-end (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-grid-column-row-start-end) :

```
.item-d {
  grid-area: 1 / col4-start / last-line / 6;
}
```



# ♡ (#aa-justify-self) justify-self

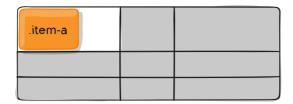
Aligns a grid item inside a cell along the *inline (row)* axis (as opposed to align-self (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-align-self) which aligns along the *block (column)* axis). This value applies to a grid item inside a single cell.

## Values:

- **start** aligns the grid item to be flush with the start edge of the cell
- end aligns the grid item to be flush with the end edge of the cell
- **center** aligns the grid item in the center of the cell
- **stretch** fills the whole width of the cell (this is the default)

```
.item {
  justify-self: start | end | center | stretch;
}
```

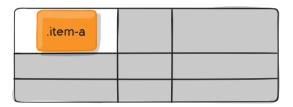
```
.item-a {
  justify-self: start;
}
```



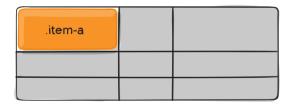
```
.item-a {
   justify-self: end;
}
```



```
.item-a {
   justify-self: center;
}
```



```
.item-a {
  justify-self: stretch;
```



To set alignment for *all* the items in a grid, this behavior can also be set on the grid container via the justify—items (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-justify—items) property.

# □\_(#aa-align-self)\_ align-self

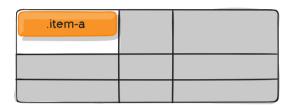
Aligns a grid item inside a cell along the *block (column)* axis (as opposed to justify—self (https://css-tricks.com/snippets/css/complete-guide-grid/#prop-justify—self) which aligns along the *inline (row)* axis). This value applies to the content inside a single grid item.

## Values:

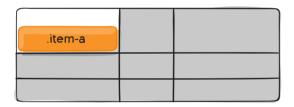
- **start** aligns the grid item to be flush with the start edge of the cell
- **end** aligns the grid item to be flush with the end edge of the cell
- **center** aligns the grid item in the center of the cell
- **stretch** fills the whole height of the cell (this is the default)

```
.item {
  align-self: start | end | center | stretch;
}
```

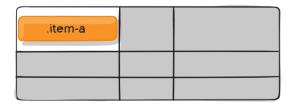
```
.item-a {
   align-self: start;
}
```



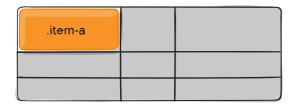
```
.item-a {
   align-self: end;
```



```
.item-a {
  align-self: center;
}
```



```
.item-a {
   align-self: stretch;
```



To align *all* the items in a grid, this behavior can also be set on the grid container via the align—items (https://css-tricks.com/snippets/css/complete—guide—grid/#prop—align—items) property.

# ♡\_(#aa-place-self)\_place-self

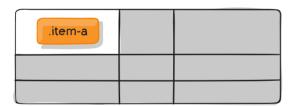
place-self sets both the align-self and justify-self properties in a single declaration.

#### Values:

- auto The "default" alignment for the layout mode.
- <align-self>/<justify-self> The first value sets align-self, the second value justify-self. If the second value is omitted, the first value is assigned to both properties.

## Examples:

```
.item-a {
  place-self: center;
}
```



```
.item-a {
  place-self: center stretch;
```



All major browsers except Edge support the place-self shorthand property.

# % (#aa-special-units-functions) Special Units & Functions