

The **grid** CSS property is a shorthand property that sets all of the explicit and implicit grid properties in a single declaration.

Note: You can only specify the explicit *or* the implicit grid properties in a single **grid** declaration. The sub-properties you don't specify are set to their initial value, as normal for shorthands. Also, the gutter properties are NOT reset by this shorthand.

Constituent properties

This property is a shorthand for the following CSS properties:

- `grid-auto-columns`
- `grid-auto-flow`
- `grid-auto-rows`
- `grid-template-areas`
- `grid-template-columns`
- `grid-template-rows`

Syntax

```
/* <'grid-template'> values */
grid: none;
grid: "a" 100px "b" 1fr;
grid: [linename1] "a" 100px [linename2];
grid: "a" 200px "b" min-content;
grid: "a" minmax(100px, max-content) "b" 20%;
grid: 100px / 200px;
grid: minmax(400px, min-content) / repeat(auto-fill, 50px);

/* <'grid-template-rows'> /
   [ auto-flow && dense? ] <'grid-auto-columns'>? values */
grid: 200px / auto-flow;
grid: 30% / auto-flow dense;
```

```

grid: repeat(3, [line1 line2 line3] 200px) / auto-flow 300px;
grid: [line1] minmax(20em, max-content) / auto-flow dense 40%;

/* [ auto-flow && dense? ] <'grid-auto-rows'>? /
   <'grid-template-columns'> values */
grid: auto-flow / 200px;
grid: auto-flow dense / 30%;
grid: auto-flow 300px / repeat(3, [line1 line2 line3] 200px);
grid: auto-flow dense 40% / [line1] minmax(20em, max-content);

/* Global values */
grid: inherit;
grid: initial;
grid: unset;

```

Values

<'grid-template'>

Defines the `grid-template` including `grid-template-columns`, `grid-template-rows` and `grid-template-areas`.

<'grid-template-rows'> / [auto-flow && dense?] <'grid-auto-columns'>?

Sets up an auto-flow by setting the row tracks explicitly via the `grid-template-rows` property (and the `grid-template-columns` property to `none`) and specifying how to auto-repeat the column tracks via `grid-auto-columns` (and setting `grid-auto-rows` to `auto`). `grid-auto-flow` is also set to `column` accordingly, with `dense` if it's specified. All other `grid` sub-properties are reset to their initial values.

[auto-flow && dense?] <'grid-auto-rows'>? / <'grid-template-columns'>

Sets up an auto-flow by setting the column tracks explicitly via the `grid-template-columns` property (and the `grid-template-rows` property to `none`) and specifying how to auto-repeat the row tracks via `grid-auto-rows` (and setting `grid-auto-columns` to `auto`). `grid-auto-flow` is also set to `row` accordingly, with `dense` if it's specified. All other `grid` sub-properties are reset to their initial values.

Formal definition

Initial value	<p>as each of the properties of the shorthand:</p> <ul style="list-style-type: none"> • <code>grid-template-rows</code>: none • <code>grid-template-columns</code>: none • <code>grid-template-areas</code>: none • <code>grid-auto-rows</code>: auto • <code>grid-auto-columns</code>: auto • <code>grid-auto-flow</code>: row • <code>grid-column-gap</code>: 0 • <code>grid-row-gap</code>: 0 • <code>column-gap</code>: normal • <code>row-gap</code>: normal
Applies to	grid containers
Inherited	no
Percentages	<p>as each of the properties of the shorthand:</p> <ul style="list-style-type: none"> • <code>grid-template-rows</code>: refer to corresponding dimension of the content area • <code>grid-template-columns</code>: refer to corresponding dimension of the content area • <code>grid-auto-rows</code>: refer to corresponding dimension of the content area • <code>grid-auto-columns</code>: refer to corresponding dimension of the content area
Computed value	<p>as each of the properties of the shorthand:</p> <ul style="list-style-type: none"> • <code>grid-template-rows</code>: as specified, but with relative lengths converted into absolute lengths • <code>grid-template-columns</code>: as specified, but with relative lengths converted into absolute lengths • <code>grid-template-areas</code>: as specified • <code>grid-auto-rows</code>: the percentage as specified or the absolute length • <code>grid-auto-columns</code>: the percentage as specified or the absolute length • <code>grid-auto-flow</code>: as specified • <code>grid-column-gap</code>: the percentage as specified or the absolute length • <code>grid-row-gap</code>: the percentage as specified or the absolute length • <code>column-gap</code>: as specified, with <length>s made absolute, and normal computing to zero except on multi-column elements • <code>row-gap</code>: as specified, with <length>s made absolute, and normal computing to zero except on multi-column elements
Animation type	discrete

Formal syntax

```
<'grid-template'> | <'grid-template-rows'> / [ auto-flow && dense? ]  
<'grid-auto-columns'>? | [ auto-flow && dense? ] <'grid-auto-rows'>? /  
<'grid-template-columns'>
```

Examples

Creating a grid layout

HTML

```
<div id="container">  
  <div></div>  
  <div></div>  
  <div></div>  
  <div></div>  
  <div></div>  
  <div></div>  
  <div></div>  
  <div></div>  
  <div></div>  
</div>
```

CSS

```
#container {  
  display: grid;  
  grid: repeat(2, 60px) / auto-flow 80px;  
}
```

```
#container > div {  
  background-color: #8ca0ff;  
  width: 50px;  
  height: 50px;  
}
```

Result