

1

GRID GARDEN


Level 15 of 28

You can also use `grid-column` and `grid-row` together to span larger areas within the grid. Give it a try!

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-area: 1/2/6/6;
9 }
10
11
12
13
14
```

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2.

GRID GARDEN


Level 16 of 28

If typing out both `grid-column` and `grid-row` is too much for you, there's yet another shorthand for that: `grid-area` accepts four values separated by slashes: `grid-row-start`, `grid-column-start`, `grid-row-end`, followed by `grid-column-end`.
One example of this would be `grid-area: 1 / 1 / 3 / 6;`.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-area: 1/2/4/6;
9 }
10
11
12
13
14
```

Next

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GRID GARDEN

◀ Level 17 of 28 ▶

How about multiple items? You can overlap them without any trouble. Use `grid-area` to define a second area that covers all of the unwatered carrots.

```

1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water-1 {
8   grid-area: 1 / 4 / 6 / 5;
9 }
10
11 #water-2 {
12   |
13 }
14

```

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GRID GARDEN

◀ Level 17 of 28 ▶

How about multiple items? You can overlap them without any trouble. Use `grid-area` to define a second area that covers all of the unwatered carrots.

```

1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water-1 {
8   grid-area: 1 / 4 / 6 / 5;
9 }
10
11 #water-2 {
12   grid-area: 2/3/5/6;
13 }
14

```

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4.

GRID GARDEN

Level 18 of 28

If grid items aren't explicitly placed with `grid-area`, `grid-column`, `grid-row`, etc., they are automatically placed according to their order in the source code. We can override this using the `order` property, which is one of the advantages of grid over table-based layout.

By default, all grid items have an `order` of 0, but this can be set to any positive or negative value, similar to `z-index`.

Right now, the carrots in the second column are being poisoned and the weeds in the last column are being watered. Change the `order` value of the poison to fix this right away!

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 .water {
8   order: 0;
9 }
10
11 #poison {
12   |
13 }
14
```

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GRID GARDEN

Level 18 of 28

If grid items aren't explicitly placed with `grid-area`, `grid-column`, `grid-row`, etc., they are automatically placed according to their order in the source code. We can override this using the `order` property, which is one of the advantages of grid over table-based layout.

By default, all grid items have an `order` of 0, but this can be set to any positive or negative value, similar to `z-index`.

Right now, the carrots in the second column are being poisoned and the weeds in the last column are being watered. Change the `order` value of the poison to fix this right away!

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 .water {
8   order: 0;
9 }
10
11 #poison {
12   order: 1
13 }
14
```

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5.

GRID GARDEN

Level 19 of 28

Now the water and poison are alternating, even though all of the weeds are at the start of your garden. Set the order of the poisons to remedy this.

```

1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 .water {
8   order: 0;
9 }
10
11 .poison {
12   
13 }
14

```

Next

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GRID GARDEN

Level 19 of 28

Now the water and poison are alternating, even though all of the weeds are at the start of your garden. Set the order of the poisons to remedy this.

```

1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 .water {
8   order: 0;
9 }
10
11 .poison {
12   order:-1 
13 }
14

```

Next

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6.

GRID GARDEN

Level 20 of 28

Up to this point, you've had your garden set up as a grid with five columns, each 20% of the full width, and five rows, each 20% of the full height.


This was done with the rules `grid-template-columns: 20% 20% 20% 20% 20%;` and `grid-template-rows: 20% 20% 20% 20% 20%;` Each rule has five values which create five columns, each set to 20% of the overall width of the garden.

But you can set the grid up however you like. Give `grid-template-columns` a new value to water your carrots. You'll want to set the width of the 1st column to be 50%.

```
1 #garden {
2   display: grid;
3   |
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-column: 1;
9   grid-row: 1;
10 }
11
12
13
14
```

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GRID GARDEN

Level 20 of 28

Up to this point, you've had your garden set up as a grid with five columns, each 20% of the full width, and five rows, each 20% of the full height.


This was done with the rules `grid-template-columns: 20% 20% 20% 20% 20%;` and `grid-template-rows: 20% 20% 20% 20% 20%;` Each rule has five values which create five columns, each set to 20% of the overall width of the garden.

But you can set the grid up however you like. Give `grid-template-columns` a new value to water your carrots. You'll want to set the width of the 1st column to be 50%.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 50% 50%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-column: 1;
9   grid-row: 1;
10 }
11
12
13
14
```

Next

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GRID GARDEN

Level 20 of 28

Up to this point, you've had your garden set up as a grid with five columns, each 20% of the full width, and five rows, each 20% of the full height.


This was done with the rules `grid-template-columns: 20% 20% 20% 20% 20%;` and `grid-template-rows: 20% 20% 20% 20% 20%;` Each rule has five values which create five columns, each set to 20% of the overall width of the garden.

But you can set the grid up however you like. Give `grid-template-columns` a new value to water your carrots. You'll want to set the width of the 1st column to be 50%.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 50% 20% 20% 10%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-column: 1;
9   grid-row: 1;
10 }
11
12
13
14
```

Next

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7.

GRID GARDEN

◀ Level 21 of 28 ▶

Specifying a bunch of columns with identical widths can get tedious. Luckily there's a `repeat` function to help with that.

For example, we previously defined five 20% columns with the rule `grid-template-columns: 20% 20% 20% 20% 20%;`. This can be simplified as `grid-template-columns: repeat(5, 20%);`

Using `grid-template-columns` with the `repeat` function, create eight columns each with 12.5% width. This way you won't overwater your garden.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4 }
5
6
7 #water {
8   grid-column: 1;
9   grid-row: 1;
10 }
11
12
13
14
```

Next

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GRID GARDEN

◀ Level 21 of 28 ▶

Specifying a bunch of columns with identical widths can get tedious. Luckily there's a `repeat` function to help with that.

For example, we previously defined five 20% columns with the rule `grid-template-columns: 20% 20% 20% 20% 20%;`. This can be simplified as `grid-template-columns: repeat(5, 20%);`

Using `grid-template-columns` with the `repeat` function, create eight columns each with 12.5% width. This way you won't overwater your garden.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 12.5%
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-column: 1;
9   grid-row: 1;
10 }
11
12
13
14
```

Next

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GRID GARDEN

◀ Level 21 of 28 ▶

Specifying a bunch of columns with identical widths can get tedious. Luckily there's a `repeat` function to help with that.

For example, we previously defined five 20% columns with the rule `grid-template-columns: 20% 20% 20% 20% 20%;`. This can be simplified as `grid-template-columns: repeat(5, 20%);`

Using `grid-template-columns` with the `repeat` function, create eight columns each with 12.5% width. This way you won't overwater your garden.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 12.5% 20% 20% 20% 27.5%;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7 #water {
8   grid-column: 1;
9   grid-row: 1;
10 }
11
12
13
14
```

Next

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8.

GRID GARDEN

Level 22 of 28

`grid-template-columns` doesn't just accept values in percentages, but also length units like pixels and ems. You can even mix different units together.

Here, set three columns to `100px`, `3em`, and `40%` respectively.

```
1 #garden {
2   display: grid;
3
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7
8
9
10
11
12
13
14
```

Next

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GRID GARDEN

Level 22 of 28

`grid-template-columns` doesn't just accept values in percentages, but also length units like pixels and ems. You can even mix different units together.

Here, set three columns to `100px`, `3em`, and `40%` respectively.

```
1 #garden {
2   display: grid;
3
4   grid-template-columns: 15.2% 7% 40%;
5   grid-template-rows: 20% 20% 20% 20% 20%;
6 }
7
8
9
10
11
12
13
14
```

Next

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9.

GRID GARDEN

Grid also introduces a new unit, the fractional `fr`. Each `fr` unit allocates one share of the available space. For example, if two elements are set to `1fr` and `3fr` respectively, the space is divided into 4 equal shares; the first element occupies 1/4 and the second element 3/4 of any leftover space.

Here, weeds make up the left 1/6 of your first row and carrots the remaining 5/6. Create two columns with these widths using `fr` units.

```

1 #garden {
2   display: grid;
3   grid-template-rows: 20% 20% 20% 20% 20%;
4 }
5
6
7
8
9
10
11
12
13
14

```

Next

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GRID GARDEN

Grid also introduces a new unit, the fractional `fr`. Each `fr` unit allocates one share of the available space. For example, if two elements are set to `1fr` and `3fr` respectively, the space is divided into 4 equal shares; the first element occupies 1/4 and the second element 3/4 of any leftover space.

Here, weeds make up the left 1/6 of your first row and carrots the remaining 5/6. Create two columns with these widths using `fr` units.

```

1 #garden {
2   display: grid;
3   grid-template-columns: 1fr 5fr;
4   grid-template-rows: 20% 20% 20% 20% 20%;
5 }
6
7
8
9
10
11
12
13
14

```

Next

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10.

GRID GARDEN

Level 24 of 28

When columns are set with pixels, percentages, or ems, any other columns set with `1fr` will divvy up the space that's left over.

Here the carrots form a 50 pixel column on the left, and the weeds a 50 pixel column on the right. With `grid-template-columns`, create these two columns, and use `1fr` to make three more columns that take up the remaining space in between.

```
1 #garden {  
2   display: grid;  
3  
4   grid-template-rows: 20% 20% 20% 20% 20%;  
5 }  
6  
7 #water {  
8   grid-area: 1 / 1 / 6 / 2;  
9 }  
10  
11 #poison {  
12   grid-area: 1 / 5 / 6 / 6;  
13 }  
14
```

Next

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GRID GARDEN

Level 24 of 28

When columns are set with pixels, percentages, or ems, any other columns set with `1fr` will divvy up the space that's left over.

Here the carrots form a 50 pixel column on the left, and the weeds a 50 pixel column on the right. With `grid-template-columns`, create these two columns, and use `1fr` to make three more columns that take up the remaining space in between.

```
1 #garden {  
2   display: grid;  
3   grid-template-columns: 50px 1fr 1fr 1fr 50px  
4   grid-template-rows: 20% 20% 20% 20% 20%;  
5 }  
6  
7 #water {  
8   grid-area: 1 / 1 / 6 / 2;  
9 }  
10  
11 #poison {  
12   grid-area: 1 / 5 / 6 / 6;  
13 }  
14
```

Next

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11.

GRID GARDEN

◀ Level 25 of 28 ▶

Now there is a 75 pixel column of weeds on the left side of your garden. 3/5 of the remaining space is growing carrots, while 2/5 has been overrun with weeds.

Use `grid-template-columns` with a combination of `px` and `fr` units to make the necessary columns.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 100%;
4   grid-template-rows: 100%;
5 }
6
7
8
9
10
11
12
13
14
```

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GRID GARDEN

◀ Level 25 of 28 ▶

Now there is a 75 pixel column of weeds on the left side of your garden. 3/5 of the remaining space is growing carrots, while 2/5 has been overrun with weeds.

Use `grid-template-columns` with a combination of `px` and `fr` units to make the necessary columns.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 75px 3fr 2fr
4   grid-template-rows: 100%;
5 }
6
7
8
9
10
11
12
13
14
```

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12.

GRID GARDEN

Level 26 of 28

grid-template-rows works much the same as grid-template-columns.

Use grid-template-rows to water all but the top 50 pixels of your garden. Note that the water is set to fill only your 5th row, so you'll need to create 5 rows in total.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   |
5 }
6
7 #water {
8   grid-column: 1 / 6;
9   grid-row: 5 / 6;
10 }
11
12
13
14
```

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The image shows a 5x6 grid of carrots. The bottom row is filled with a blue water layer. A red dashed line at the top of the water layer is labeled "50 water base" and "50 Px".

Note that the water is set to fill only your 5th row, so you'll need to create 5 rows in total.

GRID GARDEN

Level 26 of 28

grid-template-rows works much the same as grid-template-columns.

Use grid-template-rows to water all but the top 50 pixels of your garden. Note that the water is set to fill only your 5th row, so you'll need to create 5 rows in total.

```
1 #garden {
2   display: grid;
3   grid-template-columns: 20% 20% 20% 20% 20%;
4   grid-template-rows: 50px auto auto auto 1fr
5 }
6
7 #water {
8   grid-column: 1 / 6;
9   grid-row: 5 / 6;
10 }
11
12
13
14
```

Next

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The image shows a 5x6 grid of carrots. The bottom row is filled with a blue water layer. The top row is empty.

13.

GRID GARDEN

◀ Level 27 of 28 ▶

`grid-template` is a shorthand property that combines `grid-template-rows` and `grid-template-columns`.

For example, `grid-template: 50% 50% / 200px;` will create a grid with two rows that are 50% each, and one column that is 200 pixels wide.

Try using `grid-template` to water an area that includes the top 60% and left 200 pixels of your garden.

```
1 #garden {
2   display: grid;
3
4 }
5
6 #water {
7   grid-column: 1;
8   grid-row: 1;
9 }
10
11
12
13
14
```

Next

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GRID GARDEN

◀ Level 27 of 28 ▶

`grid-template` is a shorthand property that combines `grid-template-rows` and `grid-template-columns`.

For example, `grid-template: 50% 50% / 200px;` will create a grid with two rows that are 50% each, and one column that is 200 pixels wide.

Try using `grid-template` to water an area that includes the top 60% and left 200 pixels of your garden.

```
1 #garden {
2   display: grid;
3   grid-template: 60% auto/200px auto;
4 }
5
6 #water {
7   grid-column: 1;
8   grid-row: 1;
9 }
10
11
12
13
14
```

Next

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14.

GRID GARDEN

◀ Level 28 of 28 ▶

Your garden is looking great. Here you've left a 50 pixel path at the bottom of your garden and filled the rest with carrots.

Unfortunately, the left 20% of your carrots have been overrun with weeds. Use CSS grid one last time to treat your garden.

```
1 #garden {  
2   display: grid;  
3   |  
4 }  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14
```

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GRID GARDEN

◀ Level 28 of 28 ▶

Your garden is looking great. Here you've left a 50 pixel path at the bottom of your garden and filled the rest with carrots.

Unfortunately, the left 20% of your carrots have been overrun with weeds. Use CSS grid one last time to treat your garden.

```
1 #garden {  
2   display: grid;  
3   grid-template: auto 50px / 20% 80%;  
4 }  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14
```

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