



En esta viewport particular (1.215 píxeles), un total de seis elementos de cuadrícula de 200 píxeles de ancho podrían caber en la fila.

auto-fit - columas 5 y 6 son creadas actualmente pero ellos tienes 0 pixeles y estan apiladas una encima de la otra Puedes fijarte que los numeros de las columnas 5 , 6 y 7 arriba a la derecha

RESUMEN: Las filas son creadas pero si no se rellena se pliegan sobre si mismas y no se ven y el resto de elementos se estiran para llenar el vacio

- SI EL ESPACIO ES MAYOR
QUE LA ANCHURA DE LAS COLUMNAS SE
EXPANDE PARA COGER
TODO EL ANCHO
- SI SE REDUCE EL ANCHO
DEL NAVEGADOR SE REDUCE
HASTA DONDE
ESTA DEFINIDO Y SALTA LA
FILA SIGUIENTE PARA AJUSTARSE

fijarte/notar/observar You'll notice several things.

• When making the viewport narrower, both auto-fit and auto-fill automatically push grid abajo otra fila cada vez items down to another row once each of the grid items would become narrower than 200 pixels wide.

When making the viewport wider, auto-fit makes the grid-items stretch to fill out the cuando hacemos el ancho viewport con auto-fit hace grid-item estire hasta llenar la fila

When making the viewport wider, auto-fill puts in empty columns on the row.

cuando hacemos el ancho viewport auto-fill pone dentro de las columnas vacias sobre la filas.

Notice the column line numbers in the illustration below. At this particular viewport width podrian caber file hay solo unos (1,215 pixels), a total of six 200 pixel wide grid items could fit on the row. Because there are amplio only four 200 pixel wide grid items on the row, CSS Grid creates two more columns. However, the way auto-fit and auto-fill handle those extra columns differs.



With <u>auto-fit</u>, columns 5 and 6 are actually created, but they are 0 pixels wide and are stacked uno encima del otro one on top of the other. You can see this by noting the column line numbers 5, 6, and 7 at the por fijarte

auto-fill - las columnas 5 y 6 son creadas pero son creadas con un minimo de 200px dentro y se muestra la celda blanca y vacia hasta el final de la fila

hay actualmente un pequeño codigo que necesitas hacer todo esto pase y ello hacer con el grid-template-columns propiedad con grid-container

```
container1 {
  border: 1px solid black;
  display: grid;
  grid-gap: 5px;
  grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));
  grid-template-rows: repeat(2, 200px);
  }
container2 {
  border: 1px solid black;
  display: grid;
  grid-gap: 5px;
  grid-template-columns: repeat(auto-fill, minmax(200px, 1fr));
  grid-template-rows: repeat(2, 200px);
}
```

aunque sin embargo

ellas no se ven

top right. So, even though the cells are actually created, they don't show up.

With <u>auto-fill</u>, columns 5 and 6 <u>are also created</u>, but <u>now they</u> are <u>are created with a 200 pixel minimum width</u> and <u>show up as blank cells at the end of the row.</u>

There is actually very little code needed to make all this happen and it's all done with the grid-template-columns property in the grid container.

Grid Property Repeat Function Keyword minmax Function

grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));

This grid-template-columns property uses the auto-fit keyword and sets the minimum width for each grid item to 200 pixels and a maximum width of 1fr (or, one fractional unit).

<u>CSS</u>

Add the CSS seen here to create two grids. The <u>first one</u> is a <u>grid container</u> that <u>uses</u> the <u>auto-fit keyword</u>. The <u>second one</u> is a <u>grid container</u> that <u>uses</u> the <u>auto-fill keyword</u>. The "GENERAL STYLES" section will be used simply to make <u>pretty</u> the <u>individual grid items</u>.

HTML

The HTML for the first grid is contained inside a <div> grid container with a class called container. We're using this area to show how auto-fit works.

The HTML for the <u>second grid</u> is <u>contained inside</u> a <div> <u>grid container with</u> a <u>class called container2</u>. We're using this area to show how <u>auto-fill</u> works.

ADVANCED EXAMPLE

The link below shows you a page where two areas change layout without media queries. Pay attention to the text in the header and the "cards" showing the different types of grapes. This

```
/* GENERAL STYLES */
.container1 > div {
  background-color: coral;
  display: flex;
  justify-content: center;
  align-items: center;
  font-size: 48px;
  font-family: arial, helvetica, sans-serif;
.container2 > div {
  background-color: agua;
  display: flex;
  justify-content: center;
  align-items: center;
  font-size: 48px;
  font-family: arial, helvetica, sans-serif;
</style>
<body>
<h2>auto-fit</h2>
<div class="container1">
                  Todos los elementos Grid-Item
  <div>1</div>
                  se van a estirar hasta rellenar el ancho
  <div>2</div>
                  de la fila ya que solo hay definido
  <div>3</div>
                  4 Grid-item y el Grid-Container es mucho
                  mayor para las dimensiones de los
  <div>4</div>
                  Grid-items que estan definidos (200px, 1fr)
</div>
                  PERO SI SE ENCOGEN LOS ELEMENTO
<h2>auto-fill</h2> como maximo minimo sera de 200px
<div class="container2">
  <div>1</div>
  <div>2</div>
```

estira todo hasta rellenar toda la fila

illustration uses the auto-fit keyword for both areas. It also uses "auto" instead of "Ifr" in the grid-template-columns property. This way, the layout will center and extra space will be equal on both sides of the layout. Also, the cards don't expand because they are set to a width of 300 pixels.

Check out the HTML source of the page to learn how it was done. The main element is the grid container for the top of the page. The section element is the grid container for the "cards."



EXAMPLE grid-layout.com/no-queries-example.html

<div>3</div>
<div>4</div>
</div>
</body>

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