





Code4SP Training Materials Subchapter 3: CSS

WP3: Code4SP Training Materials



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CSS GRID





WHAT IS CSS GRID?

- CSS grid layout or CSS grid creates complex responsive web design layouts more easily and consistently across browsers.
 There have been other methods for controlling web page layout methods, such as tables, the box model, and CSS flex box.
- To get started you have to define a container element as a grid with display: grid, set the column and row sizes with gridtemplate-columns and grid-template-rows, and then place its child elements into the grid with grid-column and grid-row.

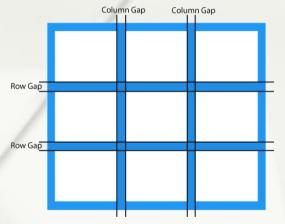






WHAT IS CSS GRID?

- CSS Grid based on rows and columns perspective, we will see how it works and what the orders that we should use.
- We can take this example on the next slide and let's build it using just grid, and discover the different ways to do it.





As You can see here we have a design base on columns and Rows. For this design we have just two columns and two rows, we can made this design by puting the box 1 & 2 on the same div than we just give it an absolute width, and for the box 3 it will be outside of the previous div and it will have the same css commands. But using **CSS grid** it will be even much easier.

	Column 1	Column 2
Row 1	1	2
Row 2	3	



Using the following commands on the CSS file will give the result on the left.
 grid-template -columns it can takes more than value based on how mush columns
 you want to have, in this case i just pass on it two values and you can see that it make
 just two columns with 500px of width even if there's an extra space at the left.

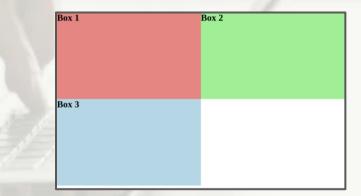
.container { display: grid; grid-template-columns: 500px 500px;

Box 1	Box 2	
Box 3		



 Also their is grid-template -rows, and us you can see below it makes the heights more bigger and this is because I had given 300px to each row.

.container {
 display: grid;
 grid-template-columns: 500px 500px;
 grid-template-rows: 300px 300px;





Now we can stretch box 3 over the empty space under the box 2 just by using the grid-column-start / end using this command we choose the start point and the end and BOOM we just made it.

Box 1

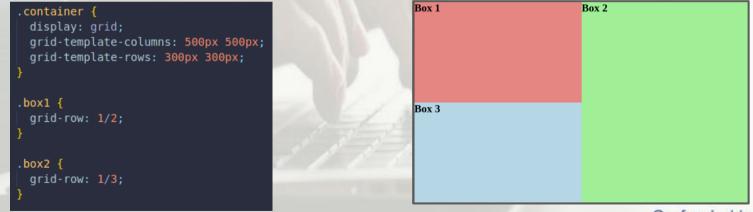
.container {
 display: grid;
 grid-template-columns: 500px 500px;
 grid-template-rows: 300px 300px;
}
.box3 {

grid-column-start: 1; grid-column-end: 3; X; Box 3

Box 2

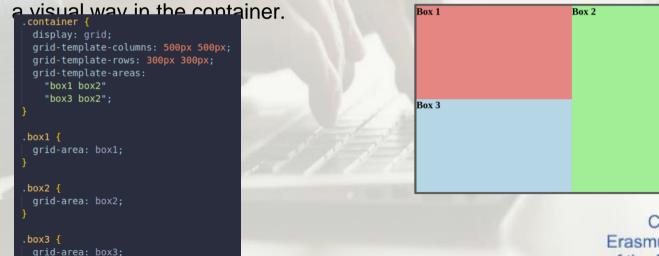


 We can do the same for rows, using grid-row and follow it with the exact position that we want like you can see in the example below.





• To make this even more easier we can use **grid-template-areas** and as you can see it give us the same result, by declaring the areas names in the children's and use it in





• And also we can change all children's position by using **justify-items** then we can

choose it position like center, start, end and stretch





 We can also use the previous command for specific element, all we have to do is use align-self or justify-self in the child that we want to applied on.

<pre>.container { display: grid; grid-template-columns: 500px 500px;</pre>		Box 2	
<pre>grid-template-rows: 300px 300px; grid-template-areas: "box1 box2" "box3 box2"; }</pre>	Box 1	-	
<pre>.box1 { grid-area: box1; align-self: center; }</pre>	Box 3		
<pre>.box2 { grid-area: box2; justify-self: center; }</pre>		Co-funded by	the
. <mark>box3 {</mark> grid-area: box3; }		Erasmus+ Program of the European Ur	nme

