

CSS Variables

https://www.w3schools.com/css/css3_variables.asp





```
body { background-color: #1e90ff; }
h2 { border-bottom: 2px solid #1e90ff; }
.container {
  color: #1e90ff;
  background-color: #ffffff;
  padding: 15px;
button {
  background-color: #ffffff;
  color: #1e90ff;
  border: 1px solid #1e90ff;
  padding: 5px;
```





```
body { background-color: #1e90ff; }
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.container {
  color: #1e90ff;
  background-color: #ffffff;
  padding: 15px;
button {
  background-color: #ffffff;
  color: #1e90ff;
  border: 1px solid #1e90ff;
  padding: 5px;
```

Custom Properties

```
:root {
 --blue: #1e90ff;
  --white: #ffffff;
body { background-color: var(--blue); }
h2 { border-bottom: 2px solid var(--blue); }
.container {
  color: var(--blue);
  background-color: var(--white);
 padding: 15px;
button {
 background-color: var(--white);
  color: var(--blue);
```

border: 1px solid var(--blue);

padding: 5px;



Custom Properties

```
Università di Roma
Tor Vergata
```

```
--blue: #1e90ff;
  --white: #ffffff;
body { background-color: var(--blue); }
h2 { border-bottom: 2px solid var(--blue); }
.container {
  color: var(--blue);
  background-color: var(--white);
  padding: 15px;
button {
  background-color: var(--white);
  color: var(--blue);
  border: 1px solid var(--blue);
  padding: 5px;
```

Custom Properties

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Università di Roma
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```
--blue: #1e90ff;
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body { background-color: var(--blue); }
h2 { border-bottom: 2px solid var(--blue); }
.container {
  color: var(--blue);
  background-color: var(--white);
  padding: 15px;
button {
  background-color: var(--white);
  color: var(--blue);
  border: 1px solid var(--blue);
  padding: 5px;
```





var(<custom-property-name> , <declaration-value>?)

```
:root {
   --main-bg-color: pink;
}

body {
   background-color: var(--main-bg-color);
}
```





var(<custom-property-name> , <declaration-value>??

```
:root {
  --main-bg-color: pink;
body {
  background-color: var(--main-bg-color);
/* Fallback */
/* In the component's style: */
.component .header {
 color: var(--header-color, blue); /* heade:
.component .text {
 color: var(--text-color, black);
```

https://developer.mozilla.org/en-US/docs/Web/CSS/var()

Global Variables



Definite nell'elemento root

```
:root {
   --blue: #6495ed;
   --white: #faf0e6;
}
```

Local Variables



```
.alert {
  --alert-color: #ff6f69;
}
```

La dichiaro in un selettore

```
.alert p {
  color: var(--alert-color);
  border: 1px solid var(--alert-color);
}
```

La posso usare nei descendant

Variabili e media query



Posso riscrivere il valore di una variabile

```
:root {
  --main-font-size: 16px;
media all and (max-width: 600px) {
  :root {
    --main-font-size: 12px;
```



Grid Layout e Bootstrap

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4 Ex-Employees of Blackwater Get Long Terms in Iraq Killings

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Volunteer Deputy Charged With Manslaughter in Tulsa By RICHARD PEREZ-PEÑA 21 minutes aen

Robert Charles Bates, 73, a reserve deputy with the Tulsa County Sheriff's Department in Oklahoma, fatally shot a suspect.

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He lowered the magnifying glass over the ant, intensifying the assault, cornering his prey.

THE STONE | CRISPIN SARTWELL Philosophy Returns to the

Real World

I ran out of interest in my own consciousness, but there's no reason ever to run out of interest in the world.

Watching

33m The F.B.I. is investigating accusations that San Francisco County deputies forced inmates to engage in gladiator-style fights for gambling and entertainment purposes.

The Los Angeles Times >



SpaceX @Space @SpaceX

W Follow

Launch scrubbed today for weather, next opportunity tomorrow 4/14 at 4:10pm EDT.

SpaceX, on the delay of its third attempt to land a used rocket on a barge in the ocean, via Twitter >

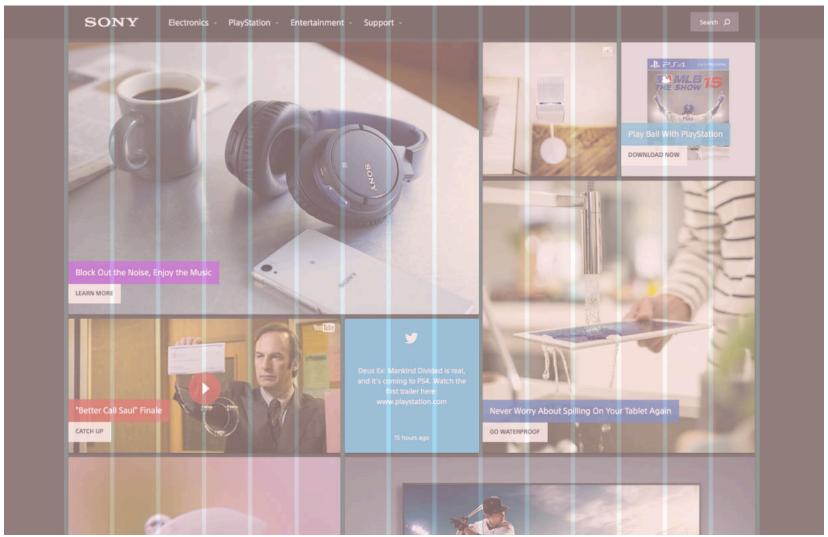
- A white reserve sheriff's deputy who fatally shot a black man during an arrest was charged with manslaughter in Oklahoma. The officer said he had meant to use his Taser. Tuisa World »
- Two former egg industry executives, a father and son, were sentenced to three months in fall after a nationwide salmonella outbreak in 2010 caused by contaminated eggs. The Associated Press #
- New measurements by NASA's Curiosity rover have led scientists to believe they have found







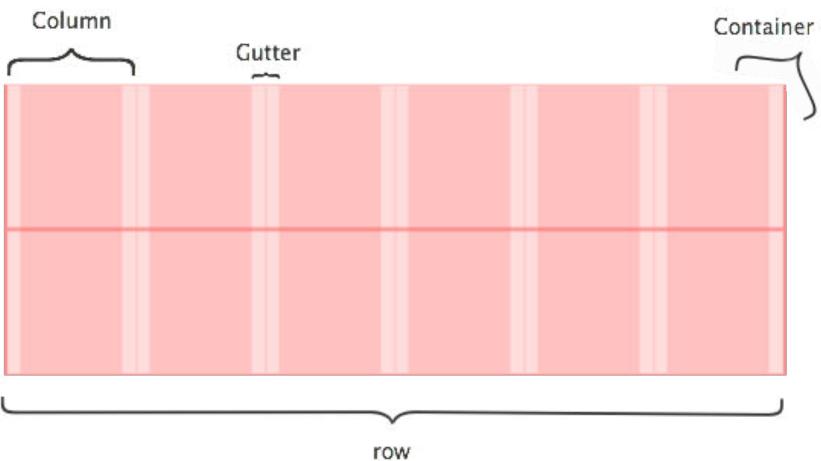




Programmazione WEB

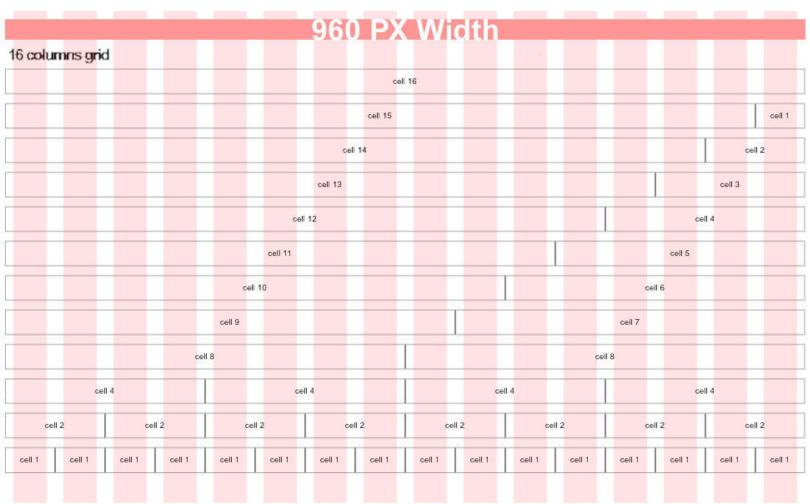
Struttura





Grid system





960 gs

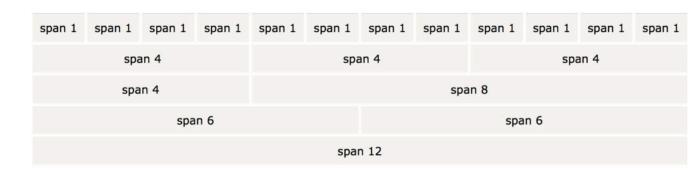


12 Column Grid											
940											
60						860					
140						7	80				
	220						700				
	3(00					62	20			
		380						540			
		4	60					40	60		
	220			220		60			380		
60			380				220			220	

Framework Responsive



Bootstrap



W3.CSS





GRID SYSTEM

CSS grid



- Grid is a two-dimensional system,
 - handle columns and rows,
 - flexbox a one-dimensional system

Two dimensions



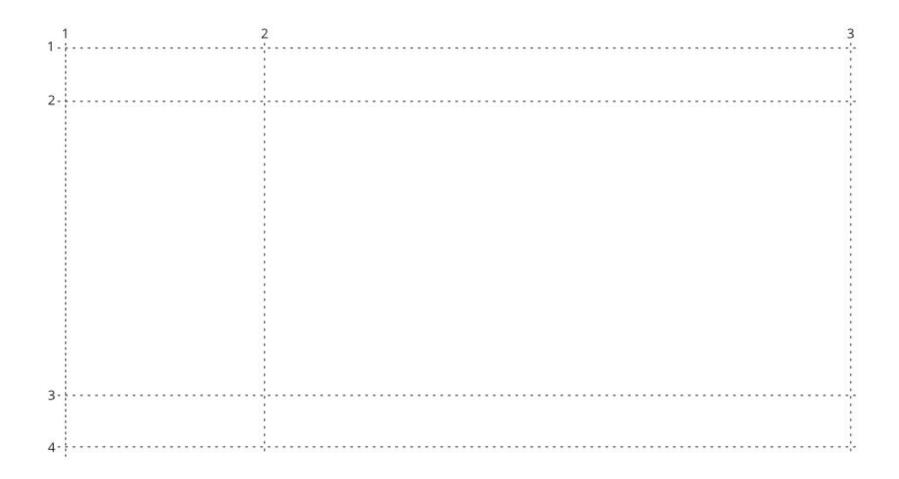
One dimension



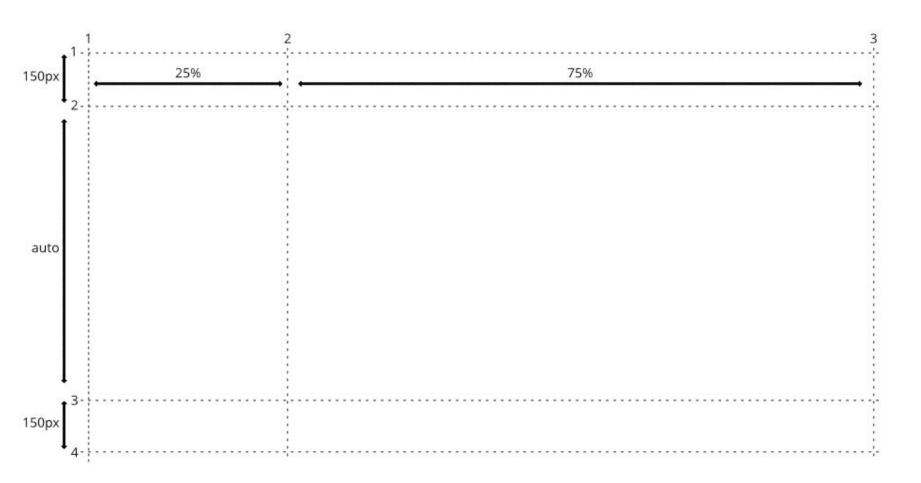
can i use grid?
https://caniuse.com/

grid lines









grid template

<div>6</div>

</div>



```
.wrapper {
 display: grid;
 grid-template-columns: 200px 50px 100px;
 grid-template-rows: 100px 30px;
<div class="wrapper">
 <div>1</div>
 <div>2</div>
 <div>3</div>
 <div>4</div>
 <div>5</div>
```

https://www.freecodecamp.org/news/learn-css-grid-in-5-minutes-f582e87b1228/

Esempi di grid template



```
grid-template-rows: 320px auto 320px;
grid-template-rows: 250px 800px 400px;
grid-template-rows: repeat(3, 275px);
grid-template-rows: 1fr 2fr 1fr;
```

```
grid-template-columns: 25% 75%;
```

grid-template-columns: 100px 100px 100px;

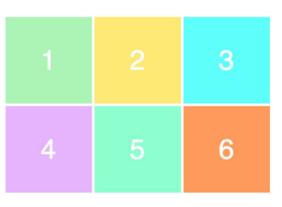
grid-template-columns: repeat(4, 100px);

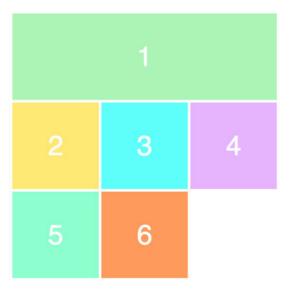
grid-template-columns: 200px auto minmax(80px,auto)

Posizionamento item



```
.wrapper {
  display: grid;
  grid-template-columns: 100px 100px 100px;
  grid-template-rows: 100px 100px 100px;
.item1 {
       grid-column-start: 1;
       grid-column-end: 4;
```

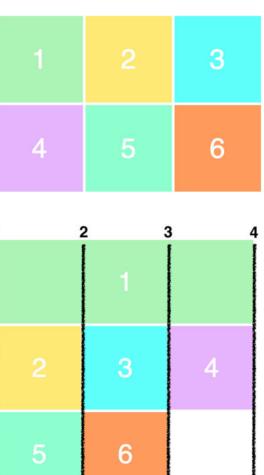




Posizionamento item



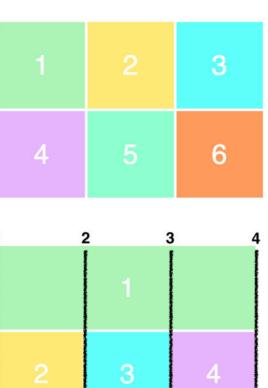
```
.wrapper {
  display: grid;
  grid-template-columns: 100px 100px 100px;
  grid-template-rows: 100px 100px 100px;
.item1 {
       grid-column-start: 1;
       grid-column-end: 4;
```



Posizionamento item

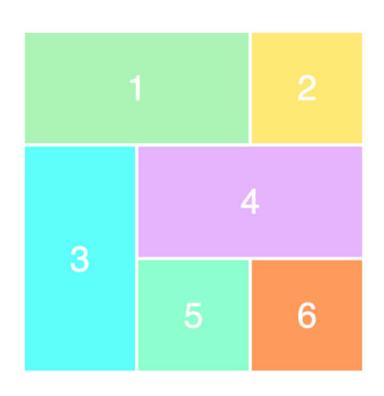


```
.wrapper {
  display: grid;
  grid-template-columns: 100px 100px 100px;
  grid-template-rows: 100px 100px 100px;
.item1 {
       grid-column: 1/4;
```





```
.item1 {
        grid-column-start: 1;
        grid-column-end: 3;
.item3 {
        grid-row-start: 2;
        grid-row-end: 4;
.item4 {
        grid-column-start: 2;
        grid-column-end: 4;
```



Page Layout



```
<div class="wrapper">
    <header>HEADER</header>
    <nav>MENU</nav>
    <main>CONTENT</main>
    <footer>FOOTER</footer>
</div>
```

```
HEADER

MENU

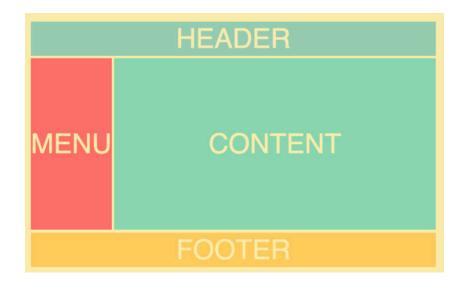
CONTENT

FOOTER
```

```
.wrapper{
    display: grid;
    grid-gap: 3px;
    grid-template-columns: repeat(12, 1fr);
    grid-template-rows: 40px 200px 40px;
}
```

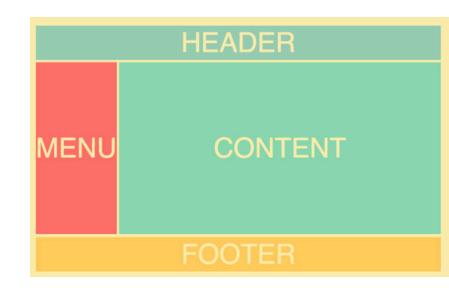


```
.wrapper{
  display: grid;
  grid-gap: 3px;
  grid-template-columns: repeat(12, 1fr);
  grid-template-rows: 40px 200px 40px;
header{ grid-column: 1/ -1;}
nav{ }
       grid-column: 2/ -1;}
main{
footer{ grid-column: 1 / -1;}
```





```
header{ grid-area: h;}
nav{ grid-area: m;}
main{ grid-area: c;}
footer{ grid-area: f;}
```





GRID FRAMEWORKS

Bootstrap



Easy to use

Anybody with just basic knowledge of HTML and CSS can start using Bootstrap

Responsive features

 Bootstrap's responsive CSS adjusts to phones, tablets, and desktops

Mobile-first approach

In Bootstrap 3, mobile-first styles are part of the core framework

Browser compatibility

 Bootstrap is compatible with all modern browsers (Chrome, Firefox, Internet Explorer, Safari, and Opera)

Bootstrap grid



	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)		
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints				
Container width	None (auto)	750px	970px	1170px		
Class prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-		
# of columns	12					
Column width	Auto	~62px	~81px	~97px		
Gutter width 30px (15px on each side of a column)						
Nestable	Yes					
Offsets	Yes					
Column ordering	Yes					



```
<div class="container">
  <h1>Hello World!</h1>
  <div class="row">
    <div class="col-sm-6" style="background-color:yellow;">
     Lorem ipsum...
   </div>
   <div class="col-sm-6" style="background-color:pink;">
     Sed ut perspiciatis...
   </div>
  </div>
</div>
```

span 6	span 6
span 6	
span 6	

Programmazione WEB



```
<div class="container-fluid">
  <h1>Hello World!</h1>
  <div class="row">
   <div class="col-sm-6" style="background-color:yellow;">
     Lorem ipsum...
   </div>
   <div class="col-sm-6" style="background-color:pink;">
     Sed ut perspiciatis...
   </div>
  </div>
</div>
```



http://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_grid_small&stacked=h





Esempi Bootstrap

http://startbootstrap.com