

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; }
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;
```

Custom Properties

```
Università di Roma

Tor Vergata
```

```
: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

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```
--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);
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Custom Properties

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```
--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;
```





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

■ SECTIONS Q SEARCH

U.S. INTERNATIONAL 中文

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By MATT APUZZO 59 minutes ago One former Blackwater security contractor received a life sentence on Monday and three others received 30-year sentences for a shooting in Baghdad's Nisour Square in 2007, which left 17 dead.

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By NEIL MacFARQUHAR 36 minutes ago

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By SCOTT SHANE 4:03 PM ET A study of drone strikes in Yemen concludes that the Obama administration has not followed its own rules to avoid civilian casualties.

Immelt Is Putting His Own Stamp on Jack Welch's G.E.



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Senator Marco Rubio of Florida told his top donors Monday that he is running for president in 2016, becoming the third Republican to officially enter the contest.

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- · Path to the Presidency | On the Issues | Things You May Not Know
- MORE ON ELECTION 2016
- · From the Magazine: It's Big Announcement Season

Volunteer Deputy Charged With Manslaughter in Tulsa By RICHARD PÉREZ-PEÑA 31 minutes ago

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

GÜNTER GRASS | 1927-2015

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Mr. Grass was called Germany's moral conscience by many, but he stunned Europe when he revealed in 2006 that he had been a member of the Waffen-SS during World War II.

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- Opinion on Facebook »

MENAGERIE | PAMELA GWYN KRIPKE

Home Travel Magazine Real Estate ALL

The Power of Light 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 A







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. Tulsa World #

Two former egg industry executives, a father and son, were sentenced to three months in jail after a nationwide salmonella outbreak in 2010 caused by contaminated eggs. The Associated Press #

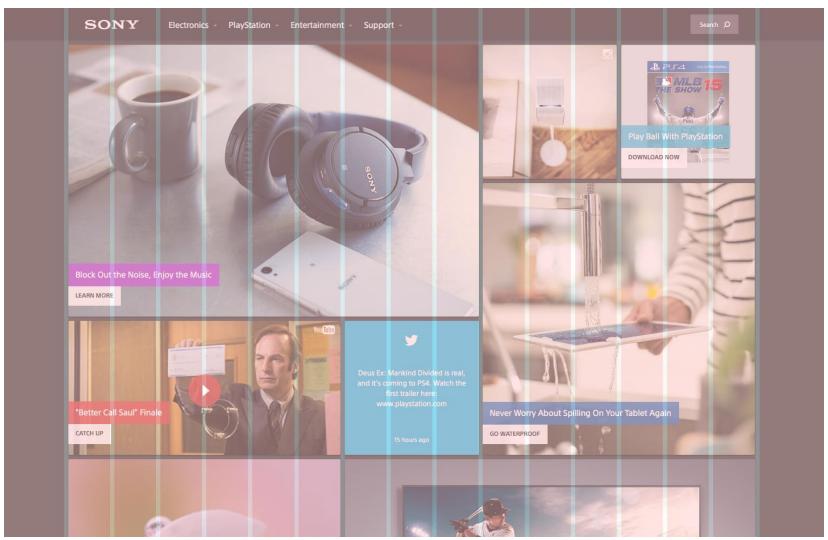
New measurements by NASA's Curiosity rover have led scientists to believe they have found







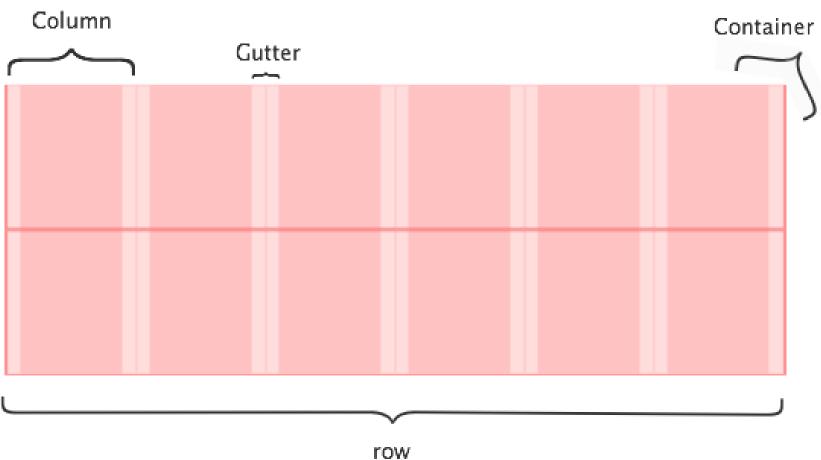




Programmazione WEB

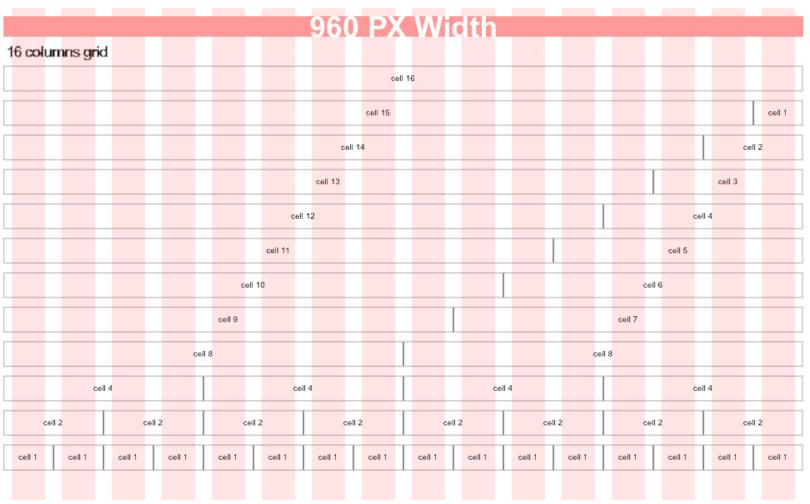
Struttura





Grid system





960 gs

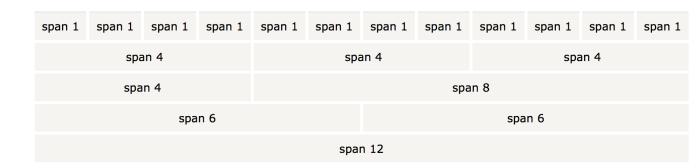


					1	2 Colu	ımn Gr	id				
						9	40					
60							860					
140							7	80				
	220)						700				
		300						6	20			
			380						540			
			4	60					4	60		
	220)			220		60			380		
60				380				220			220	

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



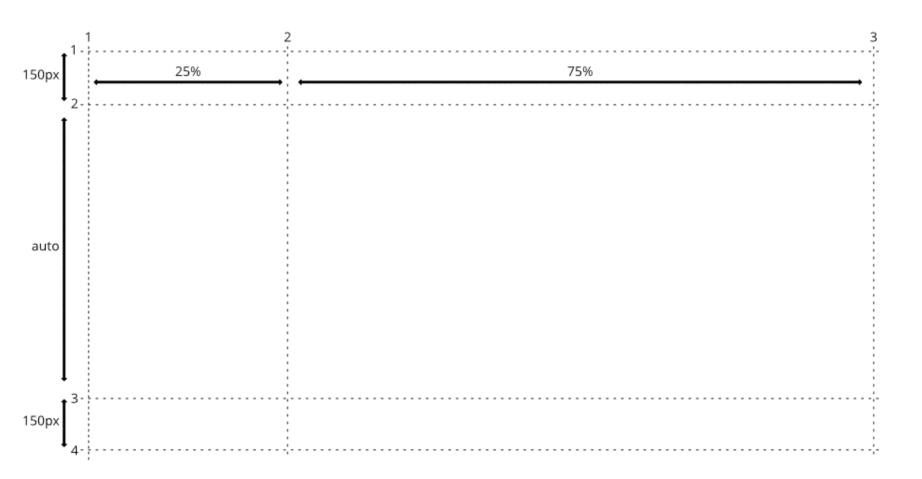
can i use grid?
https://caniuse.com/

grid lines









grid template



```
.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>
 <div>6</div>
</div>
```

https://www.freecodecamp.org/news/learncss-grid-in-5-minutes-f582e87b1228/
Programmazione WEB

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);

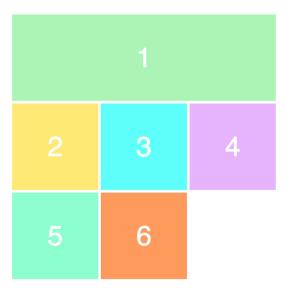
grid-template-columns: 200px auto minmax(80px,auto)

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;
```

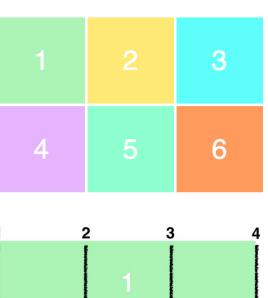
1		3
4	5	6

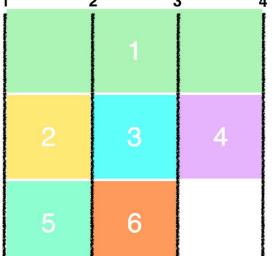


Posizionamento item



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

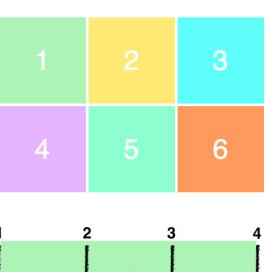


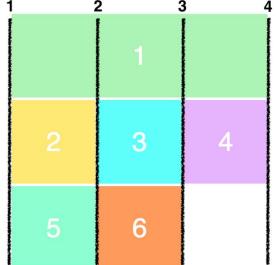


Posizionamento item



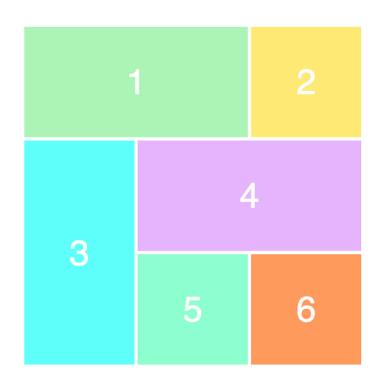
```
.wrapper {
  display: grid;
  grid-template-columns: 100px 100px 100px;
  grid-template-rows: 100px 100px 100px;
.item1 {
       grid-column: 1/4;
```







```
.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

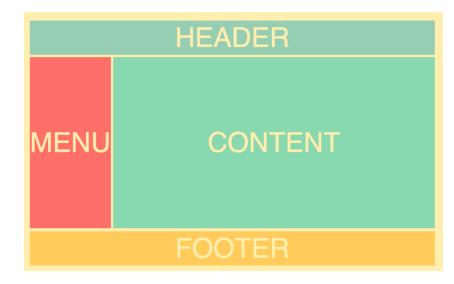
CONTENT

FOOTER
```

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

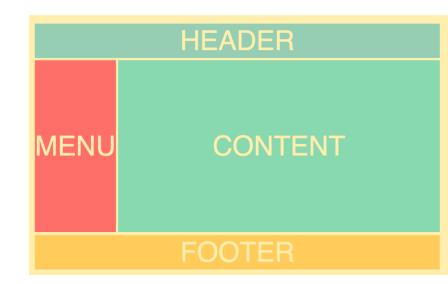


```
.wrapper{
  display: grid;
  grid-gap: 3px;
  grid-template-columns: repeat(12, 1fr);
  grid-template-rows: 40px 200px 40px;
header{ grid-column: 1/ -1;}
nav{ }
       grid-column: 2/ -1;}
main{
footer{ grid-column: 1 / -1;}
```





```
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	# of columns 12						
Column width	Auto	~62px	~81px	~97px			
Gutter width	30px (15px on each side of a column)						
Nestable	Yes	es					
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	



```
<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