

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 {
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  background-color: var(--white);
  padding: 15px;
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Custom Properties

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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

SECTIONS Q SEARCH

U.S. INTERNATIONAL 中文

The New Hork Times

Business Opinion Technology Science Health Sports Arts Style Food Home Travel Magazine

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

World U.S. Politics New York

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.

Putin Lifts Ban on Sale of Air Defense Missiles to Iran

By NEIL MacFARQUHAR 36 minutes ago

President Vladimir V. Putin moved swiftly to take advantage of a possible thaw in relations due to a potential deal curbing Iran's nuclear ambitions.

Group Concludes U.S. Isn't Following Its Own Drone Rules

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.



Rubio Announces Presidential Bid

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.

MORE ON MARCO RUBIO

- · The Upshot: Political Skill May Not Be Enough for Rubio
- · 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

Writer Pried Open Germany's Past but Hid His Own

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.

■173 Comments

· ArtsBeat: Looking Back at Günter Grass's Life and Work

The Opinion Pages

New York's Leaky Public MENAGERIE | PAMELA GWYN KRIPKE

Pension Funds He lowered the By THE EDITORIAL BOARD The city's comptroller needs to magnifying glass over come up with better ways to protect taxpayer funds.

- Editorial: 152 Innocents, Marked for Death
- Blow: Walter Scott Is Not on
- · Krugman: It Takes a Party Room for Debate: Bringing Up
- Baby on the iPhone? Opinion on Facebook

The Power of Light

Real Estate ALL

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





₩ 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. 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 A

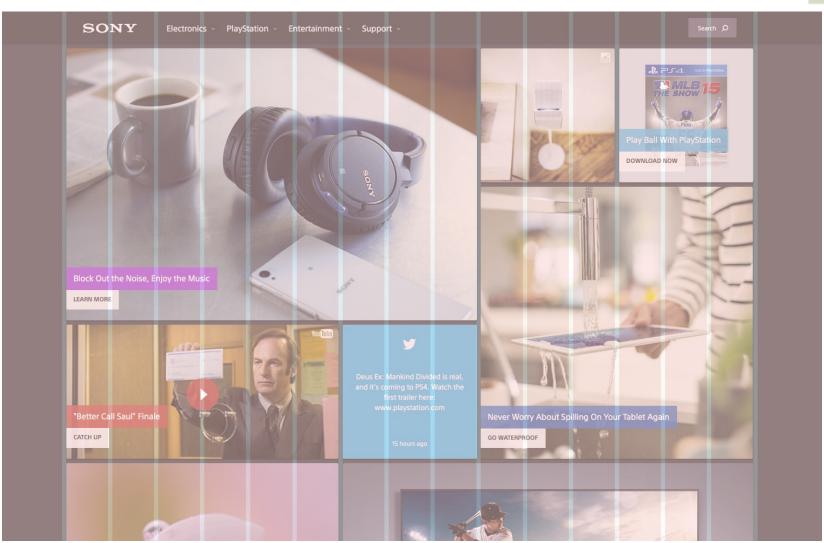
New measurements by NASA's Curiosity rover have led scientists to believe they have found







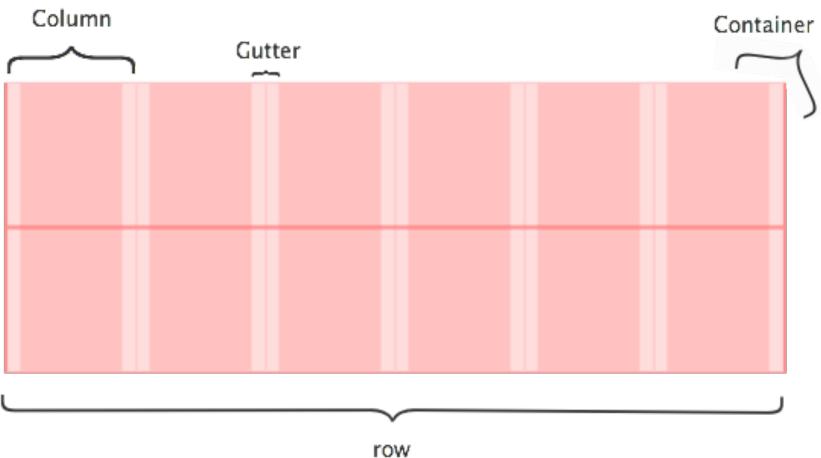




Programmazione WEB

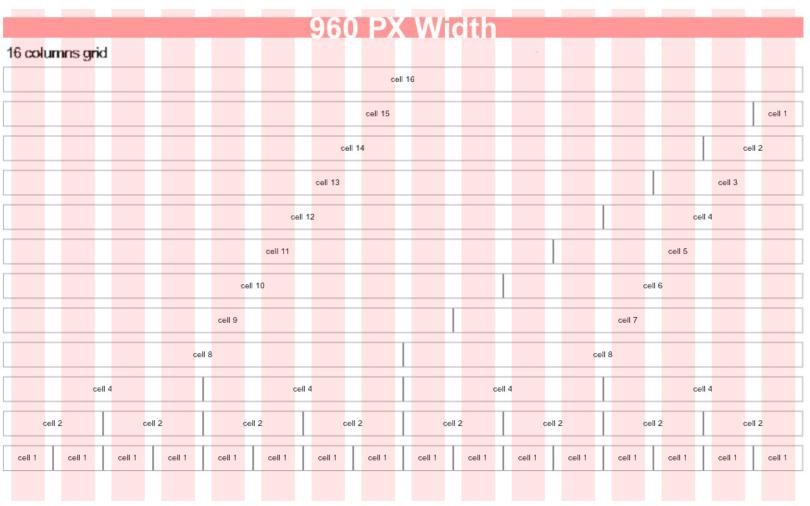
Struttura





Grid system





960 gs

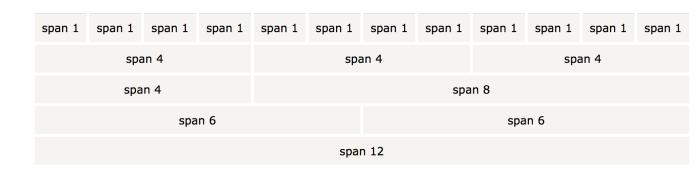


				1	2 Colu	ımn Gr	id				
94			40								
60						860					
140						7	80				
	220						700				
	3(00					62	20			
		380						540			
		4	60					40	60		
	220			220		60			380		
60			380				220			220	

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



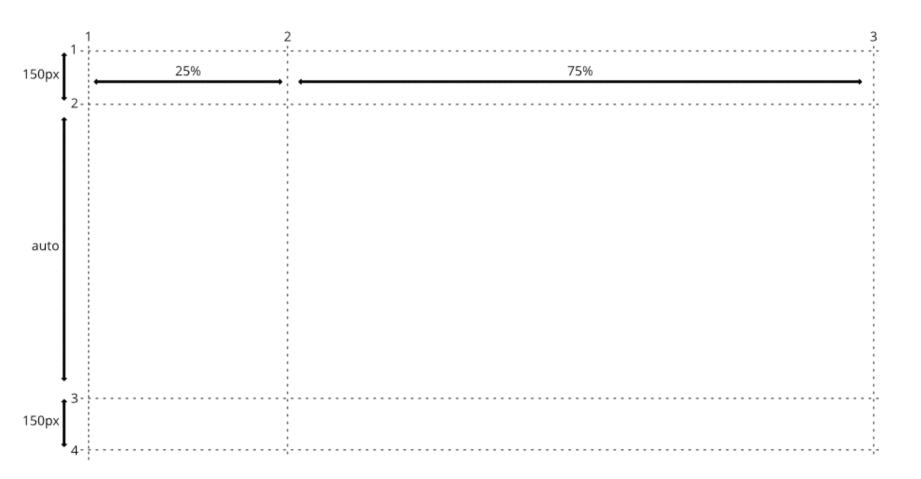
can i use grid?
https://caniuse.com/

grid lines









grid template

</div>



```
.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>
```

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

Esempi di grid template



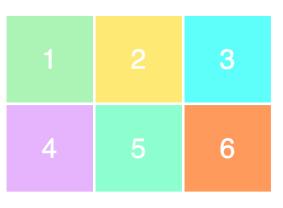
```
grid-template-rows: 320px auto 320px;
grid-template-rows: 250px 800px 400px;
grid-template-rows: repeat(3, 275px);
grid-template-rows: 1fr 2fr 1fr;
```

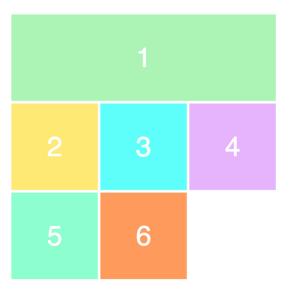
```
grid-template-columns: 25% 75%;
grid-template-columns: 100px 100px 100px 100px;
grid-template-columns: repeat(4, 100px);
grid-template-columns: 200px auto minmax(80px,auto)
```

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;
```

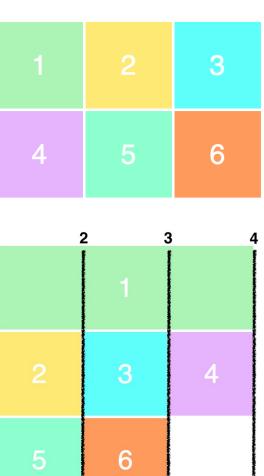




Posizionamento item



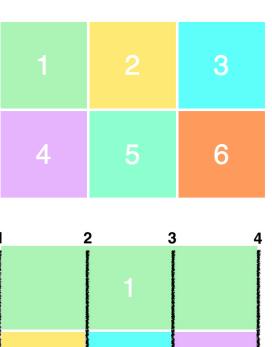
```
.wrapper {
  display: grid;
  grid-template-columns: 100px 100px 100px;
  grid-template-rows: 100px 100px 100px;
.item1 {
       grid-column-start: 1;
       grid-column-end: 4;
```



Posizionamento item



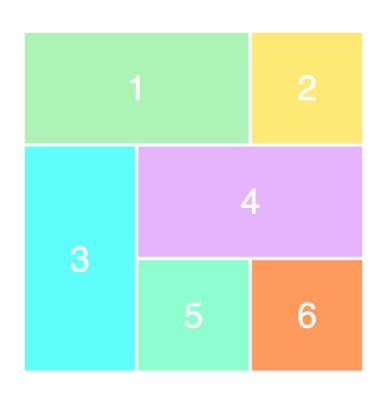
```
.wrapper {
  display: grid;
  grid-template-columns: 100px 100px 100px;
  grid-template-rows: 100px 100px 100px;
.item1 {
       grid-column 1/4;
```



6



```
.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

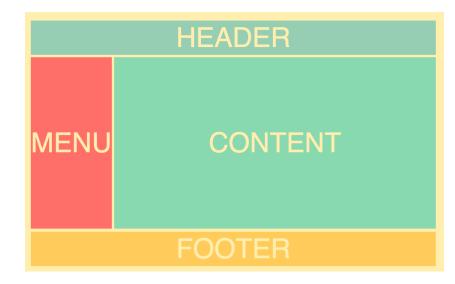
CONTENT

FOOTER
```

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

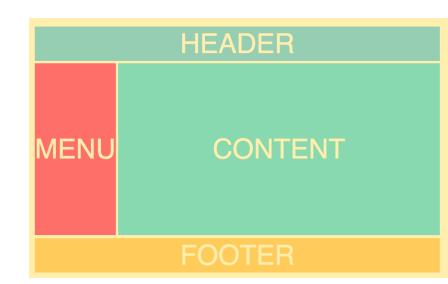


```
.wrapper{
  display: grid;
  grid-gap: 3px;
  grid-template-columns: repeat(12, 1fr);
  grid-template-rows: 40px 200px 40px;
header{ grid-column: 1/ -1;}
nav{ }
       grid-column: 2/ -1;}
main{
footer{ grid-column: 1 / -1;}
```





```
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	
Programi	mazione 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