

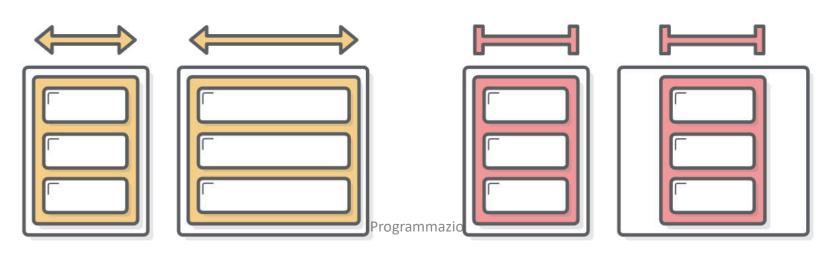
STRUTTURA DELLA PAGINA

Layout delle pagine

Università di Roma

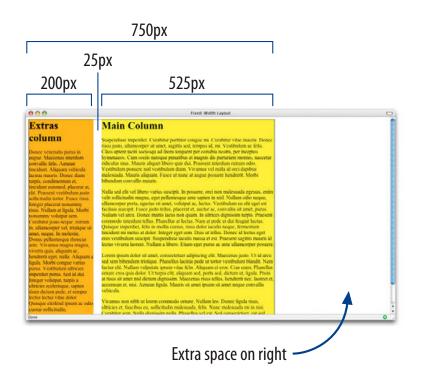
Tor Vergata

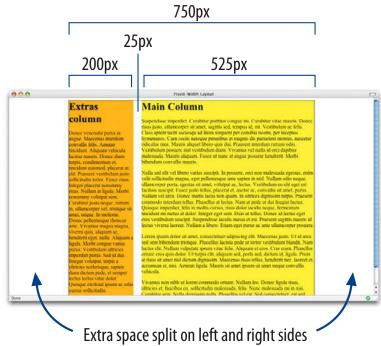
- Fixed
 - dimensione in pixel fissa
- Fluid
 - proporzionale alla larghezza del browser
- Elastic
 - Proporzionale al testo
- Hybrid
 - Misto fra fixed e fluid



Fixed layouts







```
#wrapper {width: 750px;
  position: absolute;
  margin-left: auto;
  margin-right: auto;
  border: 1px solid black;
  padding: 0px;}
```

```
#extras {position: absolute;
  top: Opx;
  left: Opx;
  width: 200px;
  background: orange; }
#main {margin-left: 225px;
  background-color: yellow;}
```

Discussione Layout Fisso



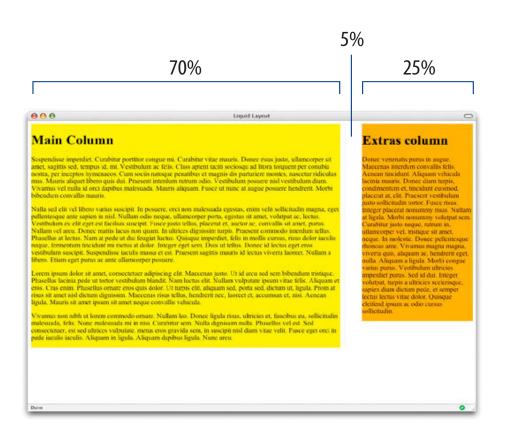
Vantaggi

- Controllo del numero delle righe
- è semplice da realizzare
- è una visualizzazione comune per i desktop

Svantaggi

- se la finestra è piccola la parte destra viene coperta
- se lo schermo è grande ho spazi a dx ed sx da gestire
- se ho carattere grandi ho problemi di righe corte
- la pagina non è controllabile dall'utente

Fluid layout





```
div#main {
    width: 70%;
    margin-right: 5%;
    float: left;
    background: yellow;
    }

div#extras {
    width: 25%;
    float: left;
    background: orange;
    }
```

S.

Discussione Layout Fluido



Vantaggi

- Sembra più vicino alla natura dei borwser
- Elimina spazi potenzialmente vuoti
- L'utente può controllare la pagina
- Non ho scrollbar orizzontali

Svantaggi

- Se il monitor è grande ho righe troppo lunghe
 - limitare la dimensione
- Non è facile predire la posizione degli elementi e l'effetto grafico finale
- Problemi nei browser piccoli
- I conti sono un poco più complicati

Layout ibrido

25px

Resizes to fill browser window

Liquid Layout

0.00

200px

Extras column

Donec venenatis purus in augue. Maecenas interdum convallis felis, Aenean tincidunt. Aliquam vehicula lacinia mauris. Donec diam urpis, condimentum et, incidunt euismod, placerat at, lit. Praesent vestibulum justo ollicitudin tortor. Fusce risus, Integer placerat nonummy risus. Nullam at ligula. Morbi nonummy volutpat sena. Curabitur justo neque, rutrum in, ullamcorper vel, tristique sit amet, neque. In molestie. Donec pellentesque rhoncus inte. Vivamus magna magna, viverra quis, aliquam ac. sendrerit eget, nulla. Aliquam ligula. Morbi congoe varius ourus. Vestibulum ultricies mperdiet purus. Sed id dui. nteger volutpat, turpis a iltricies scelerisque, sapien fiam dictum pede, et semper ectus lectus vitae dolor. Quisque eleifend ipsum ac odis ursus sollicitudin.

Main Column

Suspendisse imperdiet. Curabitar portitior congue mi. Curabitar vitae mauris. Donec risus justo, ullamcorper sit amet, sagittis sed, tempus id, mi. Vestibulum ac felis. Class aptent taciti sociosqua di titora torquent per conubia nostra, per inceptos hymenacos. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Mauris aliquet libero quis dui. Praesent interdum rutrum odio. Vestibulum posuere nisl vestibulum diam. Vivantus vel nulla id orci dapibus malesuada. Mauris aliquam. Fusce ut tume at augue posuere hendrent. Morbi bibendam convallis mauris.

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Vivamus non nibh ut lorem commodo ornare. Nullam leo. Donec ligula risus, ultricies et, faucibus eu, sollicitudin malesuada, felis. Nune malesuada m in nisi. Curabitur sem. Nulla dignissim nulla. Phasellus vel est. Sed consectetuer, est sed ultrices vulputate, metus eros gravida sem, in suscipit nisl diam vitae velit. Fusce eget orci in pede iaculis iaculis. Aliquam in ligula. Aliquam dapibus ligula. Nane arcu.

Done

div#main {
 width: auto;
 position: absolute;
 top: 0;
 left: 225px;
 background: yellow; }

div#extras {
 width: 200px;
 position: absolute;
 top: 0;
 left: 0;
 background: orange; }

25px

200px

Resizes

000

Extras column

Donec venenatis purus in ugue. Maecenas interdum convallis felis. Aenean incidunt. Aliquam vehicula lacinia mauris. Donec diam urpis, condimentum et, incidunt euismod, placerat at, lit. Praesent vestibulum justo ollicitudin tortor. Fusce risus. integer placerat nonummy isus. Nullam at ligula. Morbi nonummy volutpat sem. urabitur justo neque, rutrum in, ullamcorper vel, tristique sit imet, neque. In molestie. Donec pellentesque rhoneus inte. Vivamus magna magna, iverra quis, aliquam ac. endrent eget, nulla. Aliquam gula. Morbi congue varius urus. Vestibulum ultricies mperdiet purus. Sed id dui. nteger volutput, turpis a ltricies scelerisque, sapien fram dictum pede, et semper lectus lectus vitae dolor. Juisque eleifend ipsum ac odio ursus sofficitudin

Main Column

Liquid Layout

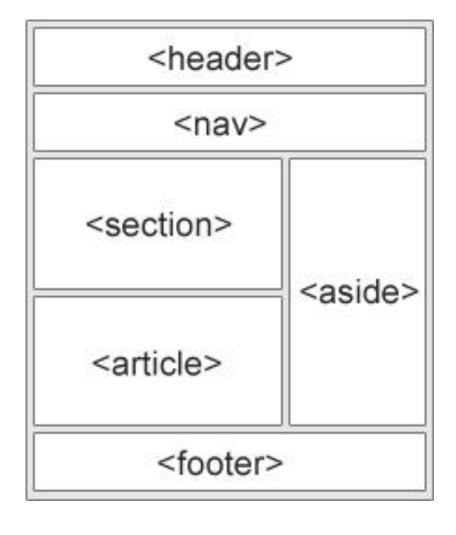
Suspendisse imperdiet. Curabitur portitior congue mi. Curabitur vitue mauris. Donce risos justo, ullamcorper sit amet, sagittis sed, tempus id, mi. Vestibulam ac felis. Class aptent taciti sociosqu ad litora torquent per comubia nostra, per inceptos hymenacos. Cum sociis natoque penaibbus et magnis dis parturient montes, nascetur ridiculus mus. Mauris aliquet libero quis dui. Praesent interdum rutrum odio. Vestibulum possere nisl vestibulum diam. Vivanius vel nulla id orci dapibus malesiada. Mauris aliquam. Fusce ut nunc at augue posuere liendrent. Morbi bibendum convallis mauris.

Nulla sed elit vel libero varius suscipit. In posuere, orci non malesuada egestas, enim velit sollicitudin magna, eget pellentesque ante sapier in nisl. Nullam odio neque, ullamcorper porta, egestas sit amet, volutpat ac, lectus. Vestibulum eu elit eget est facilisis suscipit. Fusce justo tellus placerat et, auctor ac, convallis sit amet, purus. Nullam vel arcu. Donec mattis lacus non quam In ultrices dignissim turpis. Praesent commodo interdum tellus. Phasellus at lectus. Nam at pede ut dui feugiat luctus. Quisque imperdiet, felis in mollis cursus, risus dolor iaculis neque, fermentum tincidunt mi metus at dolor. Integer eget sem. Duis ut tellus. Donec id lectus eget eros vestibulum suscipit. Suspendisse iaculis massa et est. Praesent sagittis mauris id lectus viverra laoreet. Nullam a libero. Etiam eget purus ac ante ullamcorper posuere.

orem ipsum dolor sit amet, consectetuer

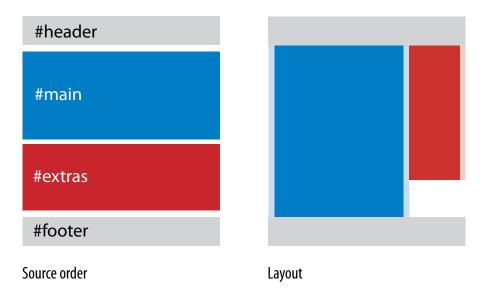
Struttura pagina Desktop

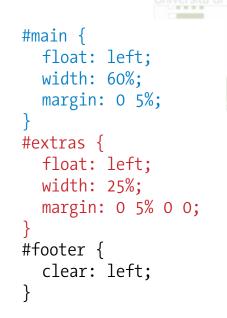




Two columns, fluid layout

```
<div id="header">Masthead and headline</div>
<div id="main">Main article</div>
<div id="extras">List of links and news</div>
<div id="footer">Copyright information</div>
```



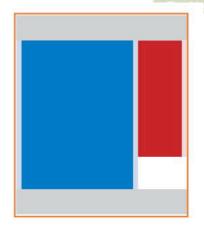




Two columns, fixed-width layout

```
#wrapper {
  width: 960px;
}
#main {
  float: left;
  width: 650px;
  margin: 0 20px;
}
#extras {
  float: left;
  width: 250px;
  margin: 0 20px 0 0;
}
#footer {
  clear: left;
}
```





Source order

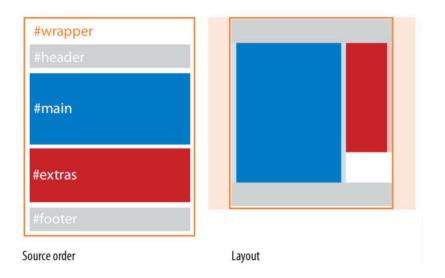
Layout

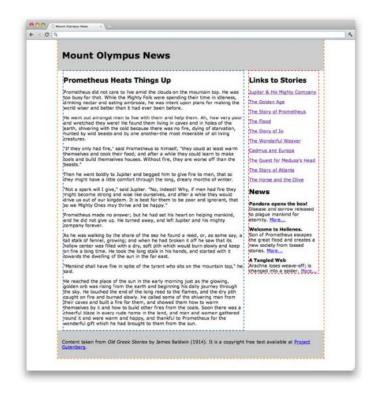


Two columns, fixed-width, centered



```
#wrapper {
  width: 960px;
  margin: 0 auto;
}
```





header e footer full width

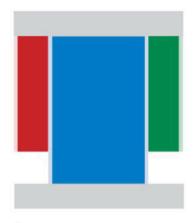




Three columns, fluid layout



```
#links {
  float: left;
  width: 22.5%;
  margin: 0 0 0 2.5%;
                            #links
#main {
  float: left;
                            #main
  width: 45%;
  margin: 0 2.5%;
                            #news
#news {
  float: left;
  width: 22.5%;
  margin: 0 2.5% 0 0;
                            Source order
#footer {
  clear: left;
     <div id="header">Masthead and headline</div>
     <div id="links">List of links</div>
     <div id="main">Main article</div>
     <div id="news">News items</div>
     <div id="footer">Copyright information</div>
```

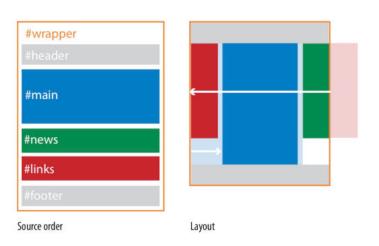


Layout



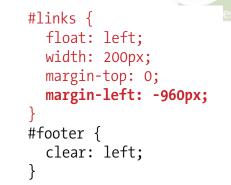
Inversione delle colonne

```
<div id="wrapper">
  <div id="header">Masthead and headline</div>
  <div id="main">Main article</div>
  <div id="news">News items</div>
  <div id="links">List of links</div>
  <div id="footer">Copyright information</div>
</div>
```



```
#wrapper {
  width: 960px;
  margin: 0 auto;
}
#main {
  float: left;
  width: 520px;
  margin-top: 0;
  margin-left: 220px;
  margin-right: 20px;
}
#news {
  float: left;
  width: 200px;
  margin: 0;
}
```







Progr

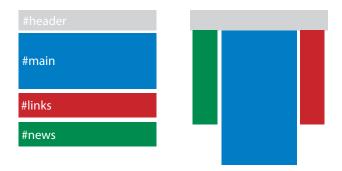
Posizionamento absolute fluid

```
<div id="header">Masthead and headline</div>
<div id="content">
  <div id="main">Main article</div>
  <div id="news">News items</div>
  <div id="links">List of links</div>
</div>
```

```
position: relative;
 margin: 0;
#main {
  width: 50%;
  position: absolute;
  top: 0;
 left: 25%;
 margin: 0;
```

#content {

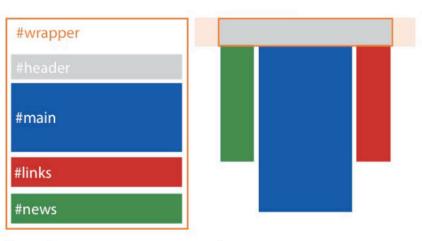
```
#news {
  width: 20%;
  position: absolute;
  top: 0;
  left: 2.5%:
  margin: 0;
#links {
  width: 20%;
  position: absolute;
  top: 0;
  right: 2.5%;
  margin: 0;
```





Posizionamento absolute fixed





Source order

```
#wrapper {
    width: 960px;
    margin: 0 auto;
}
#content {
    margin: 0;
    position: relative;
}
#main {
    width: 520px;
    position: absolute;
    top: 0;
    left: 220px;
    margin: 0;
}
```

Layout

```
#news {
  width: 200px;
  position: absolute;
  top: 0;
  left: 0;
  margin: 0;
}
#links {
  width: 200px;
  position: absolute;
  top: 0;
  right: 0;
  margin: 0;
}
```



Tecniche per Backgound fixed layout

```
#wrapper {
  width: 960px;
  margin: 0 auto;
  background-image: url(two_column.gif);
  background-repeat: repeat-y;
}
```



two_columns.png

Tecniche per Background fluid layout



```
body {
  background-image: url(two_cols_3000px);
  background-repeat: repeat-y;
  background-position: 67.5%;
}

two cols 3000px.pnq
```



background-position: 67.5%



MEDIA QUERY

Media query



Definisco degli stili per determinati media e device

```
@media not|only mediatype and (media feature) {
     CSS-Code;
}
```

<link rel="stylesheet" media="mediatype and|not|only (media feature)" href="mystylesheet.css">

Media Type

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all, print, screen, speech

```
@media screen {
        font-family: verdana, sans-serif;
        font-size: 17px;
@media print {
    p
        font-family: georgia, serif;
        font-size: 14px;
        color: blue;
```

```
@media screen, print { ... }
```

Media Features



```
@media (orientation: landscape) { ... }
```

```
@media (max-width: 12450px) { ... }
```

```
@media (color) { ... }
```

Media features



Feature	Description
width	The width of the display area (viewport).
height	The height of the display area (viewport).
device-width	The width of the devices rendering surface (the whole screen).
device-height	The height of the devices rendering surface (the whole screen).
orientation	Whether the device is in portrait or landscape orientation. (Does not accept min-/max- prefixes.)
aspect-ratio	Ratio of the viewport's width divided by height (width/height).
device-aspect-ratio	Ratio of the whole screen's (rendering surface) width to height.
color	The bit depth of the display; for example, color: 8 tests for whether the device has at least 8-bit color.
color-index	The number of colors in the color lookup table.
monochrome	The number of bits per pixel in a monochrome device.
resolution	The density of pixels in the device. This is increasingly relevant for detecting high-resolution displays.
scan	Whether a tv media type uses progressive or interlace scanning. (Does not accept min-/max- prefixes.)
grid	Whether the device uses a grid-based display, such as a fixed-width font. (Does not accept min-/max-prefixes.)

https://www.w3schools.com/cssref/css3_pr_mediaquery.asp

Media Query complesse



Combinare le features

```
— @media (min-width: 30em) and (orientation: landscape) { ... }
— @media screen and (min-width: 30em) and (orientation: landscape) { ... }
— @media print and (min-resolution: 300dpi) { ...styles here... }}
```

Combinare le query

— @media (min-height: 680px), screen and (orientation: portrait) { ... }

_

Esempi MQ



 https://www.w3schools.com/csS/css3 mediaqueri es.asp

 https://www.w3schools.com/csS/css3_mediaqueri es_ex.asp

 https://www.w3schools.com/cssref/tryit.asp?filen ame=trycss3_media2