

### **GESTIONE DEL BOX**

## Il box model



Ogni elemento html è contenuto in un box rettangolare

- Le proprietà css sono applicate al box
  - width, height, padding, borders, e margins

- Visualizziamo i box con la proprietà border
  - border: 1px solid black;

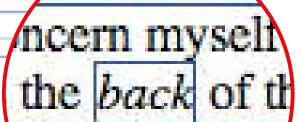
### The Back of the New \$20

Have you seen the "Series 2004 \$20 Notes"? The U.S. Treasury has rolled out yet another revamp of the U.S. twenty dollar bill in an effort to stop those pesky counterfeiters once and for all. It features high-tech fake-busting elements like a watermark, a security thread, and color-shifting ink. It also features crappy design.

I'm not going to concern mysels here with a critique of the front of the bill (my friend Jeff says "it looks li's spilled on it."). It the back of the note that's driving me crazy.

### Too Many 20s





In particular, it's all those little 20s haphazardly sprinkled in the white space. They are nails-on-a-chalkled design senses.

Are they supposed to be another security feature? ("They'll NEVER be able to duplicate this \$20... look at those 20s... they're all OVER the place!") Did they let a summer intern at the Bureau of Engraving and Printing design it? ("Hey, let Jimmy try it!") Were they concerned the \$20 bill might be confused with a \$10? ("What this 20 needs is a LOT more 20s.")

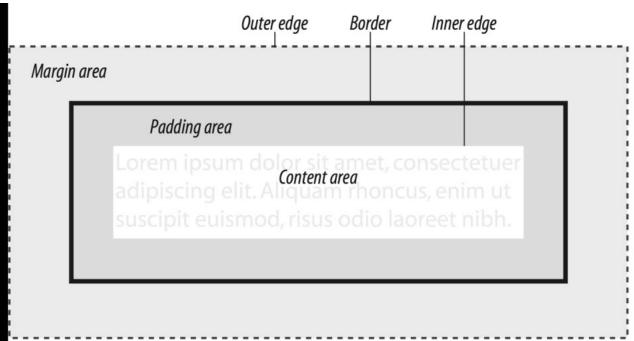
#### Connect-the-Dots

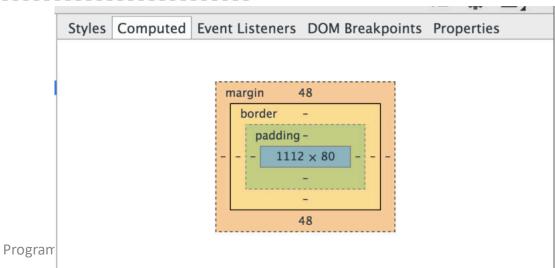
There must be more to it. My theory: the new 20s contain subliminal connect-the-dots messages, like tiny constellations. So, perhaps the 20s connect to form a secret message designed to stimulate the economy ("SPEND MORE") or boost patriotism ("WE'RE NO.1").

I'm not sure I've successfully cracked the code, so I'm asking for your help. I encourage you all to get a new \$20 bill, connect the dots to find the message on the back (pencil is best), and mail it to me for review. Together, we can get to the bottom of this.

# Il box degli elementi







## **Dimensioni**



### width

Values: length measurement | percentage | auto | inherit

**Default:** auto

**Applies to:** block-level elements and replaced inline elements (such as images)

**Inherits:** no

### height

Values: length measurement | percentage | auto | inherit

**Default:** auto

**Applies to:** block-level elements and replaced inline elements (such as images)

Inherits: no

# **Padding**



### padding-top, padding-right, padding-bottom, padding-left

Values: length measurement | percentage | inherit

**Default:** 0

**Applies to:** all elements except table-row, table-row group, table-header-group, table-footer-group, table-column, and

table-column-group

Inherits: no

### padding

Values: length measurement | percentage | inherit

**Default:** 0

**Applies to:** all elements

**Inherits:** no

1em

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal. The only part of the glass that should be visible is the part that I want frosted. 3em\_

```
blockquote {
  padding-top: 1em;
  padding-right: 3em;
  padding-bottom: 1em;
  padding-left: 3em;
  background-color: #D098D4;
}
blockquote {
  padding: 1em 3em 1em 3em;
  background-color: #D098D4;
}
```

# Margin



#### margin-top, margin-right, margin-bottom, margin-left

Values: length measurement | percentage | auto | inherit

**Default:** auto

Applies to: all elements

Inherits: no

#### margin

Values: length measurement | percentage | auto | inherit

**Default:** auto

**Applies to:** all elements except elements with table display types other than table-caption, table, and inline-table

Inherits: no

After the blasting, the protective paper and the resist masks needs to be removed from the glasses. A cycle in the dishwasher finishes the job.

margin-top: 2em;
margin-right: 250px;
margin-bottom: 1em;
margin-left: 4em;

## Border



- Del contorno di un elemento potete specificare:
  - border-style
  - border-width
  - border-color

## Stile del border



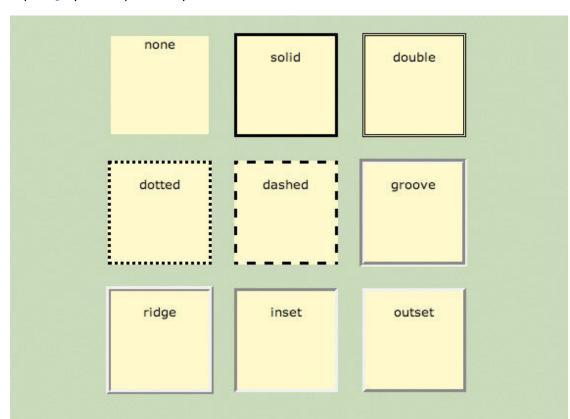
border-top-style, border-right-style,
border-bottom-style, border-left-style

Values: none | dotted | dashed | solid | double | groove | ridge | inset | outset | inherit

**Default:** none

Applies to: all elements

Inherits: no



#### border-style

Values: none | dotted | dashed | solid | double | groove | ridge | inset | outset | inherit

**Default:** none

**Applies to:** all elements

**Inherits:** no

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## Dimensione del border



border-top-width, border-right-width,
border-bottom-width, border-left-width

Values: length units | thin | medium | thick | inherit

**Default:** medium

Applies to: all elements

**Inherits:** no

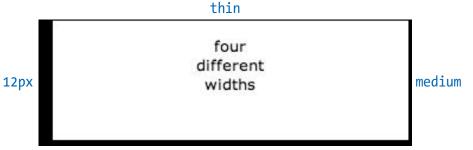
#### border-width

Values: length units | thin | medium | thick | inherit

**Default:** medium

**Applies to:** all elements

**Inherits:** no



#### thick

```
div#help {
  border-top-width: thin;
  border-right-width: medium;
  border-bottom-width: thick;
  border-left-width: 12px;
  border-style: solid;
  width: 300px;
  height: 100px;
}
div#help {
  border-width: thin medium thick 12px;
  border-style: solid;
  width: 300px;
  height: 100px;
}
```

### Colore del border



border-top-color, border-right-color,
border-bottom-color, border-left-color

Values: color name or RGB value | transparent | inherit

**Default:** the value of the color property for the element

**Applies to:** all elements

**Inherits:** no

#### border-color

Values: color name or RGB value | transparent | inherit

**Default:** the value of the color property for the element

**Applies to:** all elements

Inherits: no

maroon on the top and bottom; aqua on the sides

```
div#special {
  border-color: maroon aqua;
  border-style: solid;
  border-width: 6px;
  width: 300px;
  height: 100px;
}
```

# Singole dichiarazione border



### border-top, border-right, border-bottom, border-left

**Values:** border-style border-width border-color inherit

**Default:** defaults for each property

**Applies to:** all elements

Inherits: no

#### border

Values: border-style border-width border-color inherit

**Default:** defaults for each property

**Applies to:** all elements

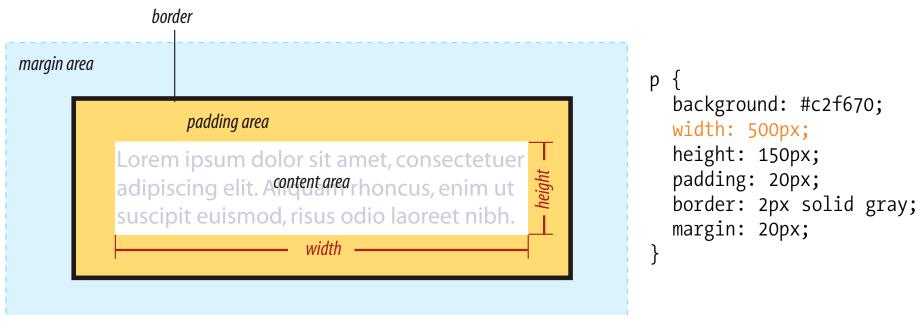
Inherits: no

```
h1 { border-left: red .5em solid; } /* left border only */
h2 { border-bottom: 1px solid; } /* bottom border only */
p.example { border: 2px dotted #663; } /* all four sides */
```



# Esempio di sizing





20px + 2px + 20px + 500px width + 20px + 2px + 20px = 584 pixels

## Area visibile



total visible box width = 544 pixels
width: 500px

Applying masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by flying sand, so it has to be a good seal.

height: 150px

# box-sizing



### box-sizing

#### **NEW IN CSS3**

**Values:** content-box border-box

**Default:** content-box

**Applies to:** all elements

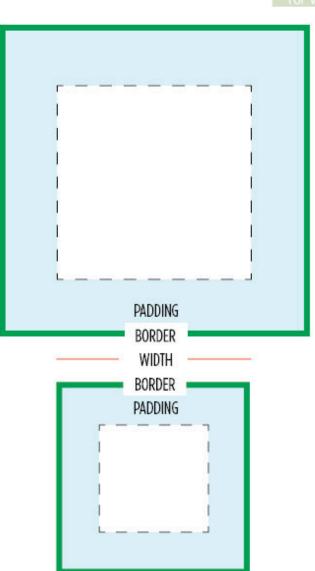
**Inherits:** no

### border-box

include nel size padding e border

### content-box

solo contenuto



# Esempio



```
p {
    ...
    -webkit-box-sizing: border-box;
    -moz-box-sizing: border-box;
    box-sizing: border-box;
    width: 500px;
    height: 150px;
}
```

Applying masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each exposed areas (even inside) will get scratched by flying sand, so it has to be a good seal.

box-sizing: border-box; width: 500; box-sizing: content-box; width: 500;







Hi I'm a box that is Width: 25%;

Sometimes I have a border: bpx solid green;

Now my width is... uhm,
25% + 12px I guess?
I can tell you one thing,
four of me won't fit on a row.



Hi I'm a box that is Width: 25%;

Now my width is... uhm, 25% + 12px | guess? I can tell you one thing, four of me won't fit on a row. Sometimes i nave a border: 6px solid green;

With box-sizing: border-box; my width is Still 25% (yay!) Still got my border! border: 6px solid green;

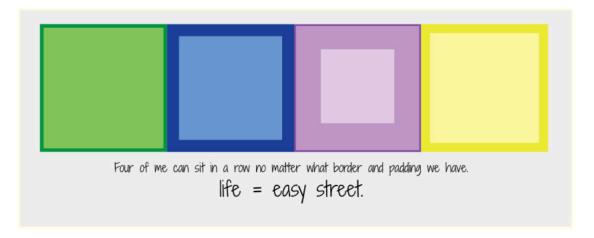




Now my width is... uhm, 25% + 12px 1 guess? I can tell you one thing, four of me won't fit on a row. sometimes i nave a border: 6px solid green;

With box-sizing: border-box; my width is Still 25% (yay!)

Still got my border! border: 6px solid green





### **ANCORA SUL MARGINE**

# Margini elementi inline



```
em { margin: 2em;}
```

Only horizontal margins are rendered on non-replaced (text) elements.

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

#### img { margin: 2em;}

Margins are rendered on all sides of replaced elements, such as images.

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each

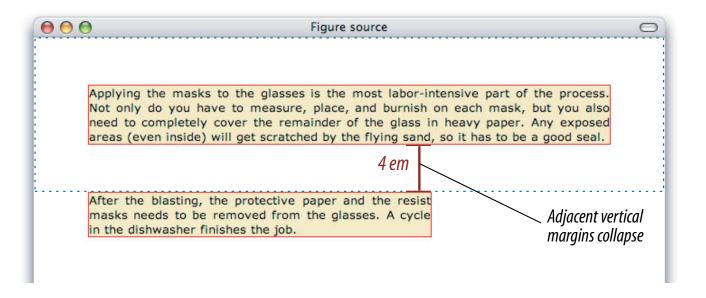


mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

- Gli elementi inline ignorano il margine top e bottom
  - ad eccezione di quelli replaced (e.g. le immagini)

# Margini che collassano





- Collassano il margine top e quello bottom in uno solo
  - il massimo dei due
- Non collassano se elemento float o absolute

# Margini Negativi



p.top { margin-bottom: 4em;}
Pushes the following paragraph element away by 4 ems

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need dot to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

p.top { margin-bottom: -4em;}
The following element moves back by 4 ems

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely cover the remainder of the glass in Applying the mask expoted glasses (as the model) will get substitute the place, and burnish on each mask, but you also need dot to completely cover the remainder of the glass in heavy paper. Any exposed areas (even inside) will get scratched by the flying sand, so it has to be a good seal.

Si può impostare un valore negativo al margine



## ALTRE PROPRIETÀ DEL BOX

## Overflow

#### overflow

**Values:** visible | hidden | scroll | auto | inherit

**Default:** visible

**Applies to:** block-level elements and replaced inline elements (such as images)

**Inherits:** no

#### visible

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## hidden

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also need to completely

#### scroll

Applying the masks to the glasses is the most laborintensive part of the process. Not only do you have to measure, place, and burnish on each

#### auto(short text)

Applying the masks to the glasses is the most labor-intensive part of the process.

#### auto(long text)

Applying the masks to the glasses is the most labor-intensive part of the process. Not only do you have to measure, place, and burnish on each mask, but you also

# Cambiare il display



### display

**Values:** inline|block|list-item|inline-block|table|inline-table|

table-row-group|table-header-group|table-footer-group|table-row|

table-column-group|table-column|table-cell|table-caption|none

The following are new in CSS3: run-in|compact|ruby|ruby-base|ruby-text|

ruby-base-container|ruby-text-container

**Default:** inline

**Applies to:** all elements

**Inherits:** yes