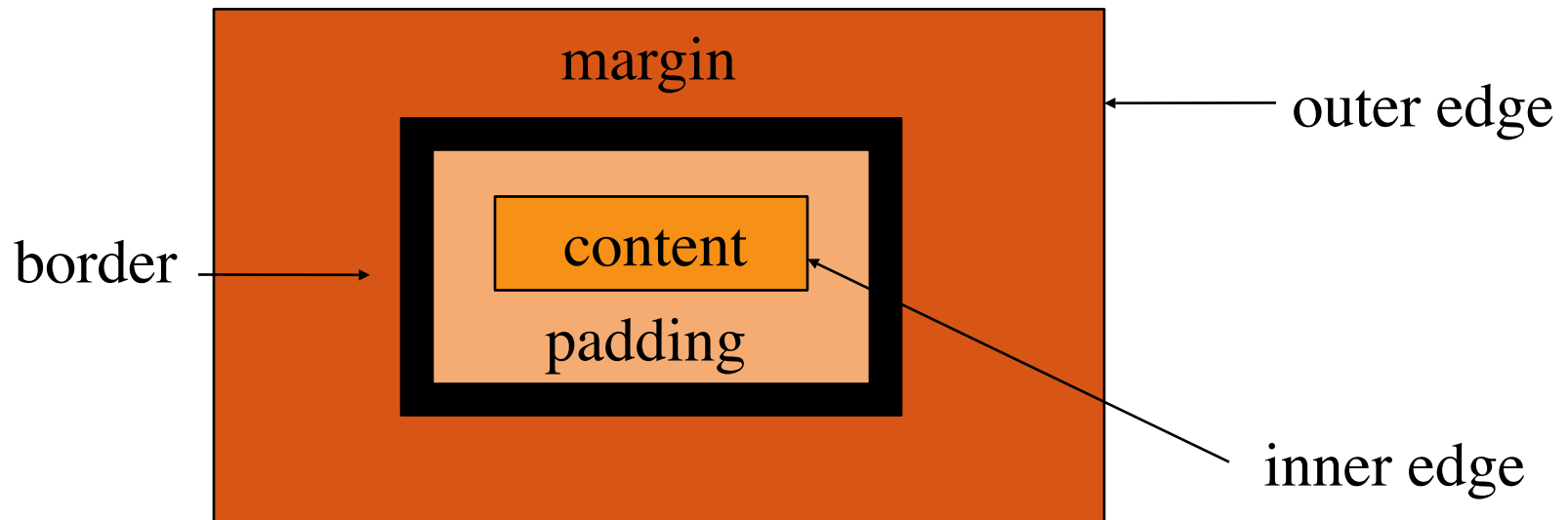


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CSS: The Box Model



- ⦿ margins, borders, padding of elements
 - ⦿ margin – the area between this box and other objects around it
 - ⦿ border – the border around the box
 - ⦿ content – the actual content
 - ⦿ padding – space between the content and the border



CSS: The Box Model



- ⦿ margins, borders, padding of elements

- ⦿ width & height

- ```
p {width:200px; height:400px;}
```

- ⦿ any padding, border and margins applied are added to the width

- ⦿ example

- ⦿ width=300px padding=10px border=1px margin=20px

- ⦿ total width = 362px

- ⦿  $20 + 1 + 10 + 300 \text{ width} + 10 + 1 + 20 = 362 \text{ pixel width}$

- ⦿ continued next page

- ⦿ look at <demos/box/boxes-width.html>

# CSS: The Box Model



- ⦿ margins, borders, padding of elements

- ⦿ width & height `p {width:200px; height:400px;}`

- ⦿ values: length measurement | percentage | auto | inherit

- ⦿ default: auto

- ⦿ applies to: block-level elements and replaced – non-text – inline elements (such as images)

- ⦿ inherits: no

- ⦿ can't specify width and height of an `anchor<a>` or `<em>`

- ⦿ by default as wide as browser window or container of the block element

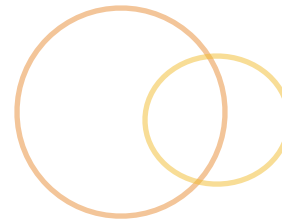
- ⦿ by default as high as necessary to fit the content

- ⦿ usually use em, pixel and percentage values

- ⦿ any padding, border

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# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ max-height, min-height, max-width, min-width – sets min and max heights and widths
    - ⦿ values: length measurement | percentage | none | inherit
    - ⦿ default: none
    - ⦿ inherited: no
    - ⦿ not supported IE6, yes IE7
    - ⦿ applies to the content area
      - ⦿ adding border, margins or padding will make box larger
    - ⦿ use em values for min-width & max-width

# CSS: The Box Model



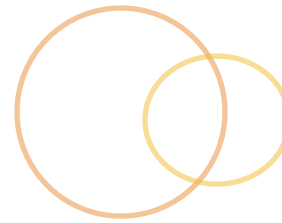
- ⦿ margins, borders, padding of elements
  - ⦿ padding-top, padding-right, padding-bottom, padding-left – amount of padding for each side
  - ⦿ space between content area and border
    - ⦿ values: length measurement | percentage | auto | inherit
    - ⦿ default: auto
    - ⦿ applies to: all elements
    - ⦿ inherits: no

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ padding – shorthand (box diagram p 97)
    - ⦿ values: length measurement | percentage | auto | inherit
    - ⦿ default: auto
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ 1 value – applies to all sides (padding: 20px)
    - ⦿ 2 values – first applied to top and bottom, second applied to left and right (20px 10px)
    - ⦿ 3 values – first is top, second is left and right, third is bottom
    - ⦿ 4 values – clockwise top, right, bottom, left (trbl)

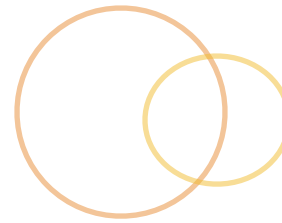
# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ border-top-style, border-right-style, border-bottom-style, border-left-style – line drawn around the content area
    - ⦿ values: none | dotted | dashed | solid | double | groove | ridge | inset | outset | inherit
    - ⦿ default: none
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ extra help
      - ⦿ always have to declare the style of the border or the other border properties will be ignored



# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ border-style
    - ⦿ values: none | dotted | dashed | solid | double | groove | ridge | inset | outset | inherit
    - ⦿ default: none
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ use this if you don't want side specific borders
      - ⦿ shorthand works (trbl) same as padding

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ border-top-width, border-right-width, border-bottom-width, border-left-width – specifies a specific width
    - ⦿ values: length units | thin | medium | thick | inherit
    - ⦿ default: medium
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ pixels most common unit for borders, but you can use keywords

# CSS: The Box Model



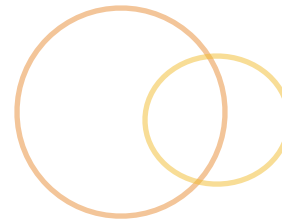
- ⦿ margins, borders, padding of elements
  - ⦿ border-width
    - ⦿ values: length units | thin | medium | thick | inherit
    - ⦿ default: medium
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ set (trbl) same as “padding” and “style”

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ border-top-color, border-right-color, border-bottom-color, border-left-color – sets the color of the border
    - ⦿ values: color name or RGB value | transparent | inherit
    - ⦿ default: value of color for element
    - ⦿ applies to: all elements
    - ⦿ inherits: no

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ border-color
    - ⦿ values: color name or RGB value | transparent | inherit
    - ⦿ default: value of color for element
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ set (trbl) same as “padding”, “style” and “width”
    - ⦿ transparent – background of the parent to show through the border, keeps the width
      - ⦿ not supported by IE6, yes IE7

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ style, width & color combination
    - ⦿ border-top, border-right, border-bottom, border-left
    - ⦿ these can be set in any order
      - ⦿ border-top: .1em groove yellow;
      - ⦿ border-bottom: 1px solid;
      - ⦿ border-left: green .5em dotted;

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ margin-top, margin-right, margin-bottom, margin-left – space added outside of the border
    - ⦿ values: length measurement | percentage | auto | inherit
    - ⦿ default: auto
    - ⦿ applies to: all elements
    - ⦿ inherits: no
    - ⦿ look at [demos/box/boxes-margin.html](#)
    - ⦿ shorthand works the same as padding shorthand
      - ⦿ margin: 0 10%
    - ⦿ you can add a margin to the `<body>`

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ margin-top, margin-right, margin-bottom, margin-left – space added outside of the border
    - ⦿ browsers have their own default margins
      - ⦿ they have their own style sheet
      - ⦿ if you have issues make sure to override the margins
      - ⦿ if three values are supplied
        - ⦿ middle value applies to both the left and right sides



# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ margin-top, margin-right, margin-bottom, margin-left – space added outside of the border
    - ⦿ margin behaviors
      - ⦿ margins collapse
        - ⦿ the largest margin value is displayed
        - ⦿ “No Margin for Error” by Andy Budd  
[www.andybudd.com/archives/2003/11/no\\_margin\\_for\\_error/](http://www.andybudd.com/archives/2003/11/no_margin_for_error/)
        - ⦿ “Uncollapsing Margins” by Eric Meyer  
[www.complexspiral.com/publications/uncollapsing-margins/](http://www.complexspiral.com/publications/uncollapsing-margins/)
        - ⦿ “CSS: Auto-height and Margin-collapsing” by Minz Meyer  
[www.researchkitchen.de/blog/archives/css-autoheight-and-margincollapsing.php](http://www.researchkitchen.de/blog/archives/css-autoheight-and-margincollapsing.php)

# CSS: The Box Model



- ⦿ margins, borders, padding of elements
  - ⦿ IE box model
    - ⦿ IE5 really botches this one!!!
      - ⦿ when width is specified IE5 uses the width of the entire box not just the content
      - ⦿ remember ... width is supposed to equal content
      - ⦿ `div {width:100px; padding-left:10px; border:10px; margin 10px;}`
        - ⦿ should be = 150px wide
        - ⦿ IE5 says naaahhhh!! = 100px wide – the 50 pixels of border, padding and margin are subtracted from that 100px leaving a content area of only 50px not 100px!!!

# CSS: The Box Model



- ⦿ margins, borders, padding of elements

- ⦿ IE box model – the fix

- ⦿ 

```
div { width: 150px;
padding-left: 10px;
border: 10px;
margin: 10px;
voice-family: “\}\””;
voice-family: inherit;
width: 100px;
}
```

- ⦿ IE chokes on voice property and doesn't read the final width property

- ⦿ newer browsers don't choke so width is overridden so they get 100px while IE gets 150

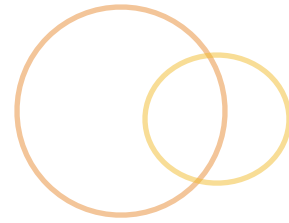
# CSS: The Box Model



## ◎ overflow

- ◎ specify what to do with content that doesn't fit
  - ◎ values: visible | hidden | scroll | auto | inherit
  - ◎ default: visible
  - ◎ applies to: block-level elements and replace inline elements (i.e. images)
  - ◎ inherits: no
  - ◎ visible – content that is too large spills out of the box
  - ◎ hidden – content gets chopped off
  - ◎ scroll – scroll-bars get included to see all the text
  - ◎ auto – (with less content than box size) shows all the extra box space

# CSS: The Box Model



## ◎ overflow

### ◎ specify what to do with content that doesn't fit

#### ◎ auto

- ◎ (with less content than box size) shows all the extra box space
- ◎ (with more content than box size) scroll bars are included