Lesson 4: Opening the Box Model How Are Elements Displayed? display property = determines how elements are displayed allows default display property value to be overwritten Tmost common values: block inline inline block none What is the Box Model? box model concept = every element on a page is a rectangular box margin may have : width border padding height wxh padding borders margins Working with the Box Model dimensions of an element defined by: display property element's contents specified width & height properties padding & border expand the dimensions of the box outward from the element's width & height any specified margin will follow the border total width = margin-right + border-right + padding-right + width + padding-left + border-left + margin-left total height= margin-top+ border-top+ padding-top+ height+ padding-boltom+ border-boltom+ margin-boltom every element has a default width & height default width is determined by its display value default height is determined by its content accepts wan properties: block doesn't accept wan properties: inline inline-block margin property = allows us to set the amount of space that surrounds an element margins = fall outside of any border completely transparent, see bg color of parent element can help position elements and/or provide breathing room around an element - inline doesn't accept vertical margins: margin-top

margin-bottom

padding property = falls inside of element's border (if exists)

provides spacing directly w/in an element

see bg color of element padding is applied to

works on all 4 states of inline elements, but vertical padding may bleed into lines above or below element
longhand = listing multiple properties & values in which each value has its own property Shorthand = listing multiple properties wlone property
margin/padding longhand: use to identify only 1 margin/padding value
- format: top : #px;
margin/padding shorthand: use for 3t margin/padding values
- format: margin: +16/1/r # px;
(eg. margin: 20 px;): set same value (20 px) for all four sides
Tformat: margin: +/b# px 1/r# px;
(eg. margin: 10px 20px;): set one value for top 2 bottom (10 px) Set one value for left 2 right (20 px)
Tformat: margin. thpx rhpx bhpx 1Hpx;
(eg. margin: 10px 20px 0 15px): Set top value (10 px) Set right value (20px) Set bottom value (0 px) Set left value (15 px)
borders = falls between padding 2 margin provides outline around element
required values: width Style color
- shorthand format: border: whpx style color;
(eg. border: 6px solid #949599;): 6.pixel·wide, solid, gray border that wraps around all 4 sides of Selecto
T common style values: solid double dashed dotted none

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-longhand values: border-width
                     border - style
                     border-color
   tindividual border sides: border-top
                            border-right
                            border - bottom
                             border - left

ightarrow (eq: border-bottom: 6px solid H949599;): border only appears on the bottom of selected element
   Thighly specific longhand format: border + selected side - desired property: appropriate value
     → (eq. border-bottom-width: 12px;): Changes only the width of the bottom border
 border-radius property = to round the corners of an element
                            accepts length units (eg. pixels & percentages)
   T Shorthand: 1 value → round all 4 corners equally
                  2 values \rightarrow round +-1/b-r & +-r/b-1 corners ( \lceil \rfloor \&       \rceil)
                  4 values -> round +-1 & +-r & b-r & b-1 corners ( c 2 c 2 L )
   - longhand: border-top-right-radius
               border-top-left-radius
               border-bottom-right - radius
               border-bottom-left-radius
box-sizing property = allows us to change exactly how the box model works & how an element's size is calculated
   - values: content-box
             padding-box
             border-box
   T doesn't include margins, any margin values will need to be added to calculate the full size
 Vendor prefixes: mozilla firefox
                                                           TMOZ-
                    microsoft internet explorer
                                                           +ms-
                    webkit (google chrome & apple safari)
                                                           T webkit-
 content-box = default value
 padding-box = alters the box model by including any padding property values wlin the with of an element
                as any padding values increase, the content size w/in an element shrinks proportionately
                CSS specification DON'T USE!!
border-box = alters box model so any border or padding property values are included whin the weh of an element
              generally the best box-sizing value
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