### CSC309 Programming on the Web

week 3: css, rwd

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## survey 1

- in survey 1, you provide us with:
  - your UTorID,
  - your GitHub username, and
  - your familiarity with technologies related to this course
- before completing the survey
  - make sure you have a GitHub username,
    - if you don't, sign up here: https://github.com/join
  - and, get a student developer pack here: <a href="https://education.github.com/pack">https://education.github.com/pack</a>
- if you have the GitHub username and UTorID
  - complete the survey here: <a href="https://goo.gl/forms/1sovPcFA1dLEo1k42">https://goo.gl/forms/1sovPcFA1dLEo1k42</a> (deadline: Jan 09)

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### review

- \* design tip
  - separate semantics from appearance
  - in developing html documents:
    - · focus on structural semantics
    - · not on appearance
- advantages
  - faster development
  - · maintainability due to modularity
  - use semantics elements in html5
  - Use html validator

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## cascading style sheets

general syntax:

selector {properties;}

• example:

h2, p { color: blue; }

h2 { font-size: 1.5em;

background-color:yellow}

cascading term?

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#### **CSS**

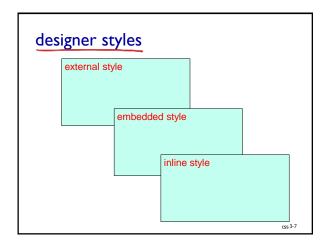
- it's the w3c standard
- to describe the appearance of information in a document (web page) defined by html elements
  - appearance? colors, backgrounds, fonts, layouts, borders, etc.
- history
  - css (1996), css2.1 (2004), css3 (2012)
- responsive web design
  - design features that keep appearance appealing on different devices

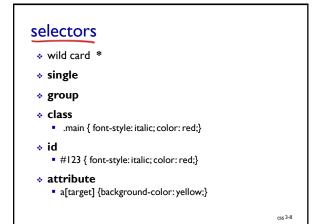
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### units

- \* absolute length
  - good for print
  - not recommended for screen
  - common examples:
    - · cm, mm, px, pt, in (=2.54cm =96px =72pt)
- relative length
  - recommended for screen (rwd)
  - common examples:
    - · em, rem, %, vw, vh, vmin, vmax

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selectors
pseudo classes

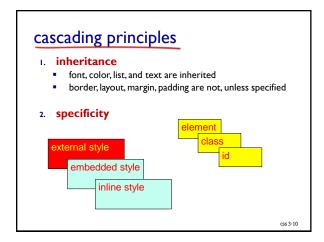
a:hover {color:pink;}

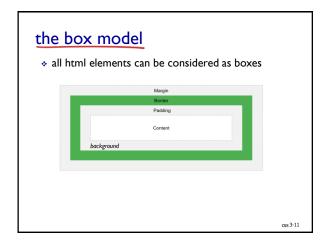
pseudo elements

p:ifirst-letter {
color:#ff0000;
font-size:xx-large;
}

combinators

descendant selector (space)
child selector (>)
adjacent sibling selector (+)
general sibling selector (~)





box border
 border
 border-style

 solid, dotted, dashed, double, groove, ridge, inset, outset

 border-width
 border-color

 border-top-color: red
 border-right-color: blue
 ...

 border-image

# box background

- background
- background-attachment: scroll | fixed
- background-color
- background-image
- background-position
- background-repeat: repeat | repeat-x | repeat-y | no-repeat
- background-size:

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# design tips

- for rwd:
  - use relative length for width and height
  - use max-width and min-width
  - use border-box for box-sizing
  - Use float

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# design tips

- browser dev tools
  - firefox: right-click → inspect element
- css validator
  - w3c jigsaw css validator https://jigsaw.w3.org/css-validator/

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