

# Web pages and HTTP

Lectures 1 - 5

CS 638 Web Programming



## Technologies



- ❑ HTML, XML, XHTML
  - ❑ Tags, attributes, URLs, hyperlinks, forms
- ❑ CSS – rules, selectors, attributes
  - ❑ Fonts, colors, spacing, positioning, backgrounds
- ❑ Images – formats (JPEG, GIF, PNG)
  - ❑ Representing colors, transparency
- ❑ HTTP – requests, replies, header lines
  - ❑ URL encoding with GET requests, POST

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## Concepts (1)



- ❑ Separating content from presentation (accommodating different lifecycles for different portions of the documents)
- ❑ Split control between web page author and user over how the page is displayed
  - ❑ Tables, absolute positioning, divs, font sizes
- ❑ The standardization process and the effect of multiple stakeholders

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## Concepts (2)



- ❑ Modularization, interfaces, protocols
- ❑ Extensibility, evolution, backward and forward compatibility
- ❑ Metadata, option negotiation
- ❑ State vs. statelessness
- ❑ Lossy/ lossless compression
  - ❑ http and images
- ❑ Absolute vs. relative addressing (URLs, positioning, sizes of page elements)

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