CS144 Web Applications Discussion Session

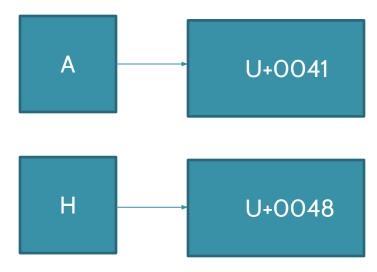
Week-2

Outline

- Unicode
- CSS
- Servlets and JSPs

Unicode

- Motivation: Assign a unique number for every character in the world
- Every character maps to a CODE POINT



Unicode

• 3 different scheme of Unicode

Name	Length	Property	Adoption
UCS-2	2 bytes	Original version	not well adopted by internet applications
UTF-8	1-3 bytes	backward compatible with ASCII encoding	used by 90% of web sites, Linux
UTF-16	2 or 4 bytes	extend the character set based on UCS-2	Adopted by Windows/macOS

 Homework: review your lecture handouts for the actual encoding scheme.

Unicode

- How can we specify Unicode?
 - specified by the "charset" parameter:
 - HTML:
 - Content-Type: text/html; charset=UTF-8
 - HTML5:
 - <meta charset="uft-8">

CSS

- Full name is Cascading Style Sheet
- A complementary file to separate style from structure of HTML pages.
- CSS rule = selector + declaration block
- Example:
 - Contents inside the <style> tag.
 - http://oak.cs.ucla.edu/classes/cs144/example s/css.html
 - A breakdown in next slides

CSS example

- h1 { // selector: tag, class or ID name font-size: 30pt; // declaration block: list of CSS properties and values
- }
 h1, p { // multiple selectors separated by commas. * means all tags
- font-family: "Times New Roman"; }
- .code { // "." Indicates class name
- font-family: monospace;
- white-space: pre;
- background-color: lightgrey;
- border: 1px solid black;
- #warning1 { // "#" indicates ID name
- color: red;

CSS

- How two specify a CSS file?
 - Inside the HTML file: using <style> tag
 - Outside the HTML file: using <link> tag to link a outside file.
 - link ref="stylesheet" href="example.css">

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CSS rules

- Cascading and Inheritance
 - CSS can be specified in three places. Higher precedence property "cascades"
 - A very good reference for CSS (Anyone who interest in front end development should read this)
 https://www.w3.org/wiki/Inheritance_and _cascade
- Specificity: In case of conflict, most "specific" rule wins!
 - Class vs ID: multiple elements with the same class can exist. ID is unique inside a page.
 - A very good reference for specificity: https://developer.mozilla.org/en- US/docs/ Web/CSS/Specificity