

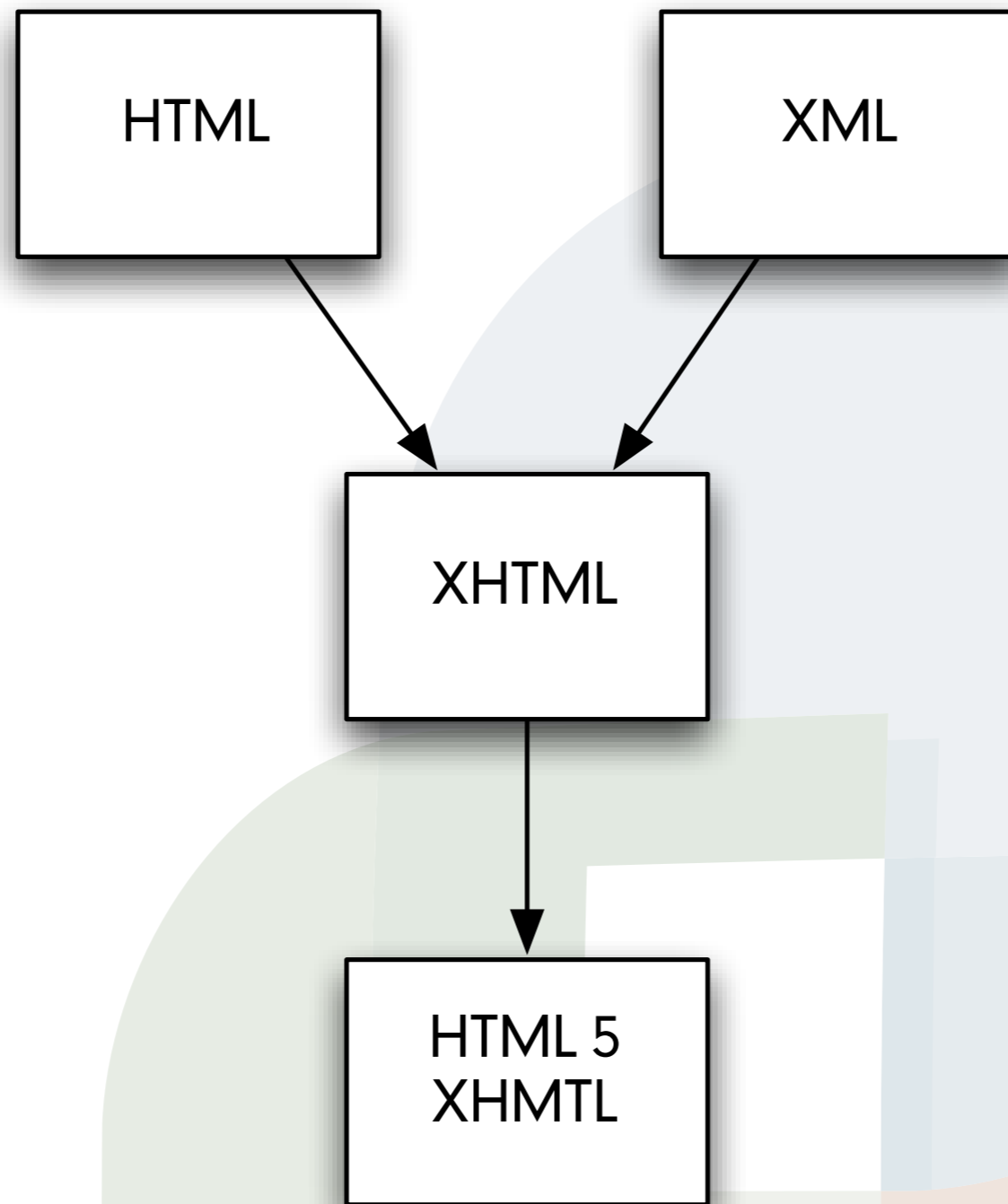
User Interaction: XML and JSON

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INF 133 Fall 2013



HTML and XML

- 1989: Tim Berners-Lee invents the Web with HTML as its publishing language
- Based on SGML
 - Separates data from presentation
 - No hypertext
- 1993: Mosaic browser is released
- 1994: World Wide Web Consortium is formed
- 1995: HTML 2.0 published IETF
- 1995: Internet Explorer is released
- 1997: HTML 3.2 published by W3C
- 1999: HTML 4.01 standardized and released
- 2000: XHTML standard released
- 2010: HTML 5 Draft Standard Released
- 2014: HTML 5 Recommendation expected



- Support for SVG and MathML
- New tags
 - add semantic meaning
 - section
 - article
 - add multimedia processing
 - canvas
 - video
 - audio
- Some tags deleted
 - offline storage
 - drag and drop
 - document editing

- Today: HTML5 is in its Candidate Recommendation Form
 - http://www.w3.org/standards/techs/html#w3c_all

July 26, 2012

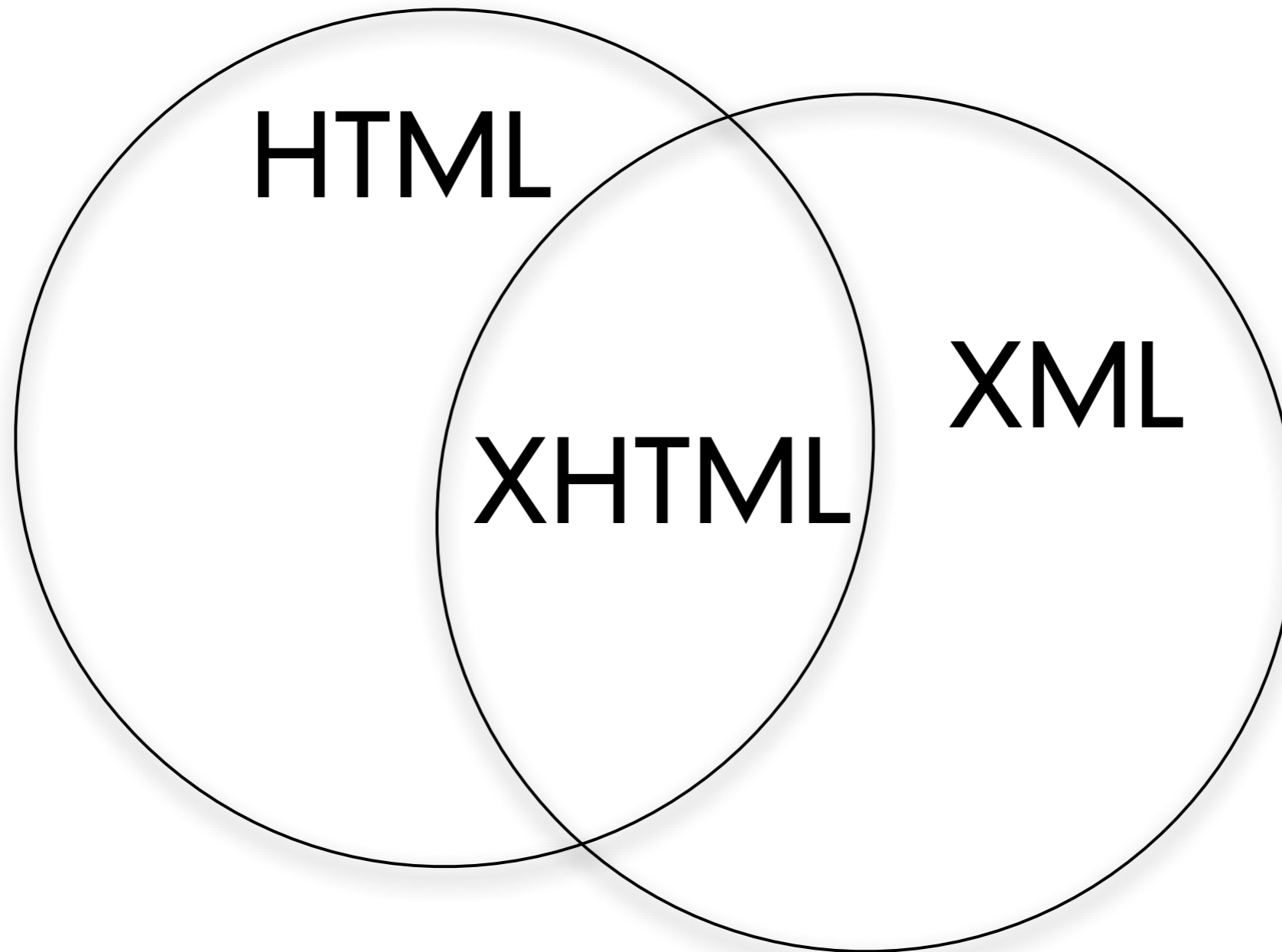
What Is HTML5?

A nice description from a magazine I was reading yesterday that describes just what the heck HTML5 is. :

"HTML5 is most often thought of broadly to include new versions of the markup language itself and its associated standard for accessing and manipulating HTML documents, the Document Object Model; Cascading Style Sheets (CSS), a language to define the presentation and appearance of an HTML document; and the JavaScript scripting language. The term is often used even more broadly to include specific application programming interfaces (APIs), such as those that enable new browser-based graphics, geolocation, local storage, and video capabilities."

I didn't keep the reference. Comment if you know it. Maybe ACM Communications?

by admin — Tags: [code](#), [java](#), [location](#) — [Leave a comment](#)



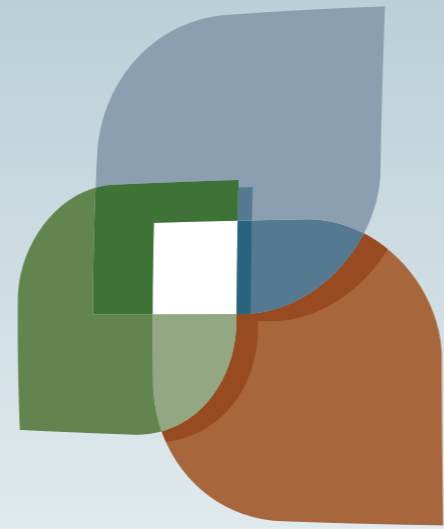
- HTML, XML and JSON
 - Structured Data Formats that evolved with the web
 - Text with a syntax applied
 - They can represent a huge variety of information
 - They enable data transport
 - Different systems and technologies and programming languages depend on the syntax being standardized

```
<?xml version="1.0"?>
<note>
  <to>Tove</to>
  <from>Jani</from>
  <heading>Reminder</heading>
  <body>Don't forget me this weekend!</body>
</note>
```


- What is XML?
 - XML stands for “eXtensible Markup Language”
 - XML was designed in the context of separating
 - data from display
 - XML tags are not predefined
 - You define your own tags
 - XML is designed to be self-descriptive

- The Difference Between XML and HTML
- XML
 - designed to transport and store data
 - It looks like HTML
 - The focus is on what the data is
- HTML
 - originally focussed on how data looks
 - it typically is "broken-XML"
 - XHTML is
 - HTML that conforms to XML standard

- XML Does not DO Anything
 - It is a data format
 - A program must be written to manipulate the data
 - To search the data
 - To display the data
 - To change the data
 - Even though the data seems to be associated with a task it is still just data.



L U C I

