HTML document structure

- HTML document type declaration
- Top-level document structure elements

document type declaration

- Must be the very first thing in an HTML document preceding even the <html> element
- Identifies a document as an HTML document
- Identifies the version of the HTML standard browsers should use when interpreting the document
- Declared as part of the <!DOCTYPE> tag
- HTML5 is identified via the "html" argument

<!DOCTYPE html>

Omission will result in minor display anomalies

document structure elements

- HTML documents have a nested structure
- the <html> element defines the limits of the document
- the <head> element contains information about the document
- the <body> element contains the content of the document
- the <head> and <body> elements nest within the <html> element

```
<html>
    <head></head>
    <body></body>
</html>
```

document title

- Identifies a document "by name"
- Is displayed in the browser window header, as the page name when bookmarking, and in search engine results
- Is declared as part of a title element

<title>Page Title</title>

A document must contain exactly one title element

character set declaration

- Declared as part of the <meta> element
- Made using the "charset" attribute

<meta charset="UTF-8">

- <meta> is an empty element
- Omission will result in display anomalies when certain characters are used

inferred elements

- The <html>, <head>, and <body> elements are mandatory but inferred – they may be omitted, browsers will create these if they are missing
- The character set declaration is not inferred, if omitted ISO-8859-1
 "Latin alphabet part 1" will be used by the browser
- The <title> element is not inferred, if omitted the file name (or a variation thereof) will be used instead

HTML attributes

- Additional detail about elements may be provided using attributes
- Attributes are placed in the opening tag of an element

<abbr title="HyperText Markup Language">HTML</abbr>

Attributes are presented as a name/value pair

title="HyperText Markup Language"

 The value is separated from the name via an equality sign and surrounded by quotation marks

CSS declarations

- CSS declarations identify what about a part of an HTML document should be modified (color, size, font, etc.)
- CSS declarations follow the selector and are surrounded with curly brackets

abbr {color:pink; font-size:1cm;}

Declarations consists of a property/value pair

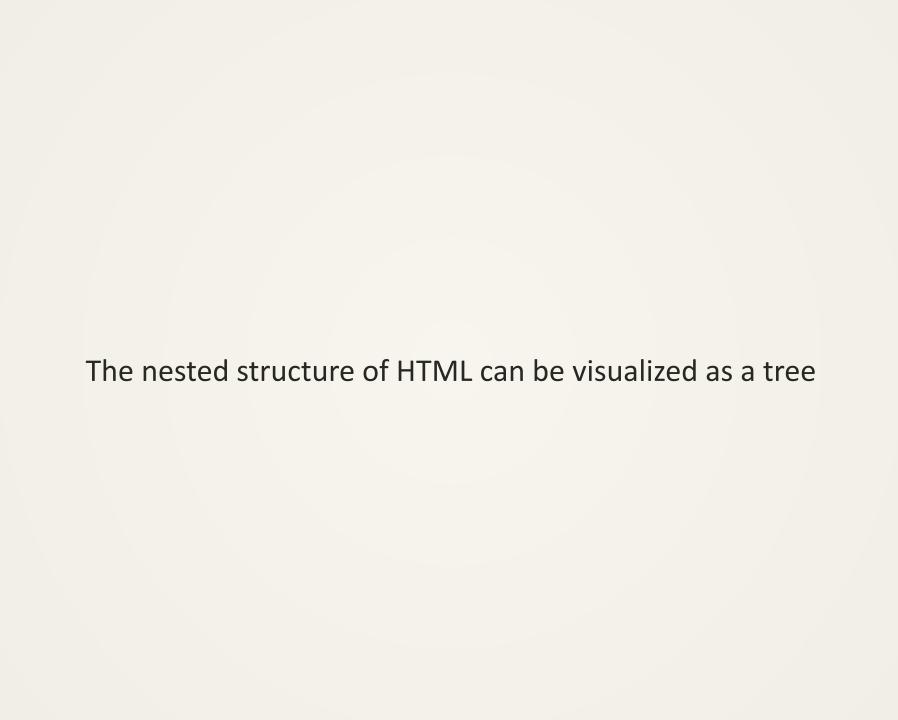
abbr {color:pink; font-size:1cm;}

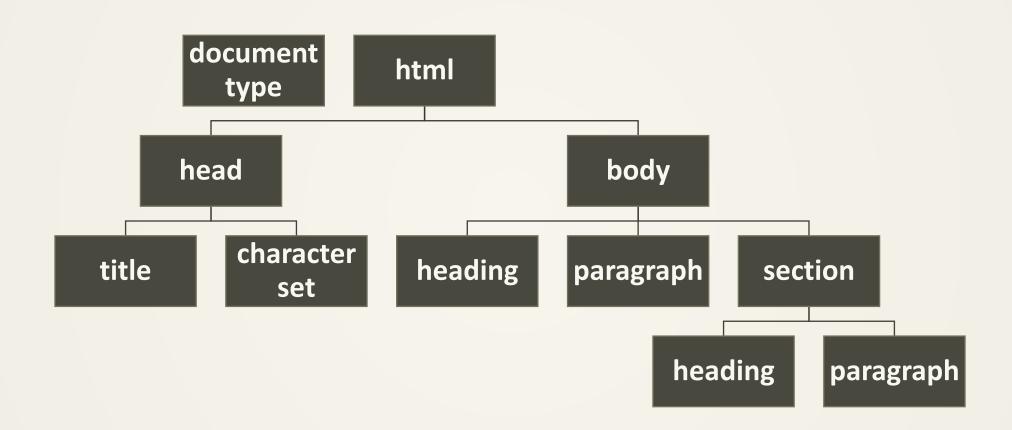
- The property and value pair are separated via a colon
- Each declaration ends with a semicolon

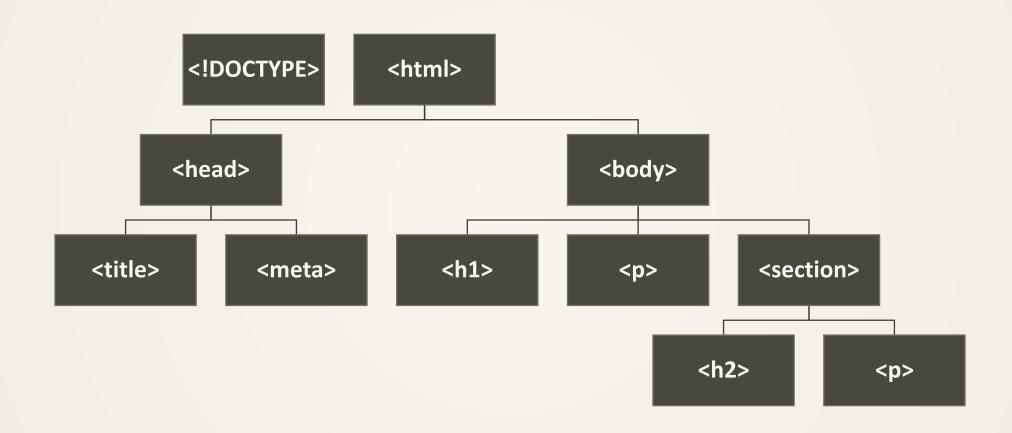
plain text in HTML

- HTML displays plain text as entered, following the declared text direction (left-to-right in most languages)
- Line breaks are applied automatically as text reaches the boundaries of the window – this is known as "text-warp" or "word-warp"

- All HTML documents consist of at least two levels of nesting
- The <head> and <body> elements are nested within <html>
- <head> contains meta data information about a document as a whole, as opposed to content
- <body> holds all document content and all content elements, both block and inline
- both the <html> and <body> elements are always present in an HTML document – if they were not included by the author the browser will add them
- <html> and <body> display as block elements







HTML structure visualizer

http://www.aharef.info/static/htmlgraph/

annotating HTML

- It is possible to leave "comments" in HTML code
- Comments are not displayed by browsers, and have no effect on content presentation
- Comments are authored like so:

<!-- comment -->

 Comment tags are "empty" elements, the comment is contained within the tag

the semantic approach

Lecture 2

meaningful content

- The HTML5 standard aims to divorce meaning and style
- HTML markup should only describe the meaning of content
- CSS should be used to style
- This sort of markup is known as semantic markup where semantics is the study of meaning

inline semantic elements

- We can separate meaning into two kinds contextual meaning, and structural meaning
- Most contextual meaning is inferred via inline elements
- The available semantic inline elements are:

abbr, cite, code, del, dfn, em, ins, kbd, mark, q, s, samp, small, strong, sub, sup, time, var

- Like the , <i>, and <u> elements many semantic elements have a stylistic effect on content
- Semantic elements are distinct because they impart their content with meaning regardless of the stylistic effect
- , <i>, and <u> are not forbidden in HTML5 they may be used semantically for "tonally different" content but a more appropriate element probably exists

Editor: Notepad ++

- Enable word wrap
- Configure style: Settings → style configurator
- Enable auto-completion:
 Settings → Preferences →
 Backup/Auto-completion
- Display line number: Settings
 → Preferences → Display line number

```
_ 0 X
E:\HTML course\week 2\demo.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugir
        <!DOCTYPE html>
      -<html>
      ⊢<head>
            <meta charset="UTF-8">
            <title>Janelle Monáe</title>
            <link href="show.css" rel="stylesheet" type="text/css"/>
        </head>
      -<body>
                Janelle Monáe
 10
                From Wikipedia, the free encyclopedia
 11
 12
                         <strong>Janelle Monáe Robinson </strong> (born December 1,
        1985), known as Janelle Monáe (pron.: /me nei/),[3] is an American R&B/soul
        musician signed to Bad Boy Records and Atlantic Records. After making a mark
Hyr length: 16666 lines: 105
                             Ln:12 Col:61 Sel:0
                                                            Dos\Windows
                                                                          ANSI as UTF-8
```


<

b>Janelle Monáe Robinson
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Failed to make much of a commercial impact, peaking at No. 115 on the Billboard charts in the United States.

Janelle Monáe

>
>

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Janelle Monáe

inline semantic reference

- em used to indicate "stress emphasized" content
- strong used to indicate important content
- mark used to indicate relevant content
 - Relevance is distinct from importance, in that it is "important" with concern to a specific context
 - Use mark element as you would use a highlighting pen to draw attention to a relevant content, or to add a writer's mark
 - and elements may be nested to indicate increased relative importance

Semantic use of and <mark>

What is the proper use of the element?

 is used to indicate important content.

DO NOT use to indicate relevant content.

<mark> is used to indicate relevant content.

important

Semantic use of and <mark>

What is the proper use of the element?

 is used to indicate important content.

DO NOT use to indicate relevant content.

<mark> is used to indicate relevant content.

DO NOT

Semantic use of and <mark>

What is the proper use of the element?

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DO NOT use to indicate relevant content.

<mark> is used to indicate relevant content.

<mark> is used to indicate
important content.</mark>

inline semantic reference

- abbr indicates an abbreviation or acronym
- dfn indicates the defining instance of a term
 - The title attribute may be used to define the full version of the term

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<abbr>R&B</abbr>

(Special Edition) and included two new tracks. The EP was generally well received by critics, garnering Monáe a 2009 Grammy nomination in the Best Urban/Alternative Performance for her single "Many Moons",[9] festival appearances and opening slots for the indie pop band Of Montreal. Monáe also toured as the opening act for band No Doubt on their summer 2009 tour.[10] Her single "Open Happiness" was featured in the 2009 season finale of American Idol.[11] Monáe told MTV about her concept for her new album and also discussed her alter-ego named Cindi Mayweather, she said:

"Cindi is an *android* and I love speaking about the android because they are the new "other". People are afraid of the other and I believe we're going to live in a world with androids because of technology and the way it advances. The first album she was running because she had fallen in love with a human and she was being disassembled for that."[12]

In a November 2009 interview, Monáe revealed the title and concept behind her album, *The ArchAndroid*. The album was released on May 18, 2010. The second and third suites of *Metropolis* are combined into this full-length release, in which Monáe's alter-ego, Cindi Mayweather—also the protagonist of *Metropolis*: *The Chase Suite*— becomes a messianic

<dfn>android</dfn> example

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<abbr title="Rhythm and Blues">R&B</abbr>

inline semantic reference

• **cite** – identifies the name of a work – be it film, book, painting, sculpture, song, etc.

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<cite>The Audition</cite>

inline semantic reference

- code identifies sample computer code
- samp identifies sample output from a computer program
- kbd identifies keyboard input

 var – used to identify a variable – usually used in a mathematical or programing context

- **del** used to indicate content to be deleted from a document
- ins used to indicate content that has been inserted into a document
 - The cite attribute (not element) may be used to include a source with reason for the revision
 - The datetime attribute may be used to indicate the time of revision – using the machine readable notation:

YYYY-MM-DDThh:mm:ss.sTZD

 s – identifies content that is no longer correct, but should remain displayed – often to provide context

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<ins cite="http://www.billboard.com/#/artist/janelle-monae/703748">115</ins>

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<ins cite="http://www.billboard.com/#/artist/janelle-monae/703748" datetime="2012-08-17">115</ins>

Poets of the Fall

```
22.03.2013 Kosmonavt - St. Petersburg, Russia
```

23.03.2013 Arena - Moscow, Russia

24.03.2013 Arena Hall - Krasnodar, Russia

26.03.2013 Tele-Club - Yekaterinburg, Russia

28.03.2013 Bingo - Kiev, Ukraine

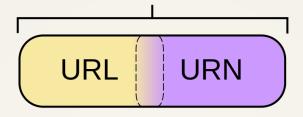
08.12.2012 Virgin Oil Co. Helsinki, Finland OVER

06.12.2012 MS Baltic Princess Helsinki, Finland OVER

<s>08.12.2012 Virgin Oil Co. - Helsinki, Finland

- **q** indicates quoted content
 - Appends quotation marks ("") to the beginning and end of content
 - The cite attribute (not element) may be used to include a source for the quotation: a valid URI

uniform resource identifier (uri)



- URI used in *cite* attribute is a **uniform resource identifier (URI)** a string of characters used to uniquely identify a name or a resource
- URIs can be classified as locators (URLs), as names (URNs), or as both.
- A uniform resource name (URN) functions like a person's name, while a uniform resource locator (URL) resembles that person's street address. In other words: the URN defines an item's identity, while the URL provides a method for finding it.
- Typical example of URN is ISBN for books

Monáe later made appearances on *Idlewild*, where she is featured on the songs "*Call the Law*" and "*In Your Dreams*". Big Boi told his friend Sean Combs about Monáe, whom he had not heard of before. Combs promptly visited her MySpace page, and according to Bad Boy Records' A&R Daniel 'Skid' Mitchell in an interview with HitQuarters, the label boss loved it straight away, "[He] loved her look, loved that you couldn't see her body, loved the way she was dancing, and just loved the vibe. He felt like she has something that was different - something new and fresh."[8] Monáe signed to Bad Boy in 2006. The label's chief role was in facilitating her exposure on a much broader scale rather than developing the artist and her music, because in the words of Mitchell, "She was already moving, she already had her records - she had a self-contained movement." Combs and Big Boi wanted to take their time and build her profile organically and allow the music to grow rather than put out "A hot single which everyone jumps on, and then they fade because it's just something of the moment."[8]

2007-10: Metropolis — The Chase Suite and The ArchAndroid (Suites II and III)

In 2007, Monáe released her first solo work, titled Metropolis. It was originally conceived as a

<q>[He] loved her look, loved that you couldn't see her body, loved the way she was dancing, and just loved the vibe. He felt like she has something that was different something new and fresh. Monáe later made appearances on *Idlewild*, where she is featured on the songs "Call the Law" and "In Your Dreams". Big Boi told his friend Sean Combs about Monáe, whom he had not heard of before. Combs promptly visited her MySpace page, and according to Bad Boy Records' A&R Daniel 'Skid' Mitchell in an interview with HitQuarters, the label boss loved it straight away, "[He] loved her look, loved that you couldn't see her body, loved the way she was dancing, and just loved the vibe. He felt like she has something that was different -something new and fresh."[8] Monáe signed to Bad Boy in 2006. The label's chief role was in facilitating her exposure on a much broader scale rather than developing the artist and her music, because in the words of Mitchell, "She was already moving, she already had her records - she had a self-contained movement." Combs and Big Boi wanted to take their time and build her profile organically and allow the music to grow rather than put out "A hot single which everyone jumps on, and then they fade because it's just something of the moment." [8]

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<q

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- small is used to identify "small print" content for example legal text or a copyright notice
- small should not be used for stylistic purposes

- 29. "Janelle Monae: Funky Sensation". Bluesandsoul.com. Retrieved 2012-08-17.
- 30. Lynskey, Dorian (August 26, 2010). "Janelle Monáe: sister from another planet". The Guardian (London).
- 31. "Janelle Monae's Funky Otherworldly Sounds". NPR. 2009-06-17. Retrieved 2012-08-17.
- 32. Gillian 'Gus' Andrews (2010-07-21). "Janelle Monae turns rhythm and blues into science fiction". Io9.com. Retrieved 2012-05-06.
- "Janelle Monae covers Honey magazine and talks The ArchAndroid album".
 Theprophetblog.net. 2010-04-14. Retrieved 2012-08-17.
- 34. "Janelle Featured In the "Style 100" of InStyle Magazine!". 2010-11-30. Retrieved 2011-01-26.

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- sub used to identify content that should be presented below baseline text for semantic reasons
- sup used to identify content that should be presented above baseline text for semantic reasons
 - Often used to present chemical or mathematical formulas
 - Should not be used for purely stylistic reasons

The chemical formula for water is: h₂o

 $X^3 = X^*X^*X$

- time indicates that enclosed content is a date and/or time
 - Unless the enclosed content is presented in machine readable format (YYYY-MM-DDThh:mm:ss.sTZD) the datetime attribute must be used
 - The datetime attribute value must be machine readable

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<time>2010</time>

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<time datetime="1985-12-01">December 1, 1985

structure blocks

 In HTML there is a distinction between "inline" and "block" elements

- Inline elements occupy only the width and height of their content
- Block elements occupy the height of their content as well as the whole horizontal text line of their parent element
- This is effectively equivalent to inserting a line-break before and after the element (though the two are distinct)

<h3>Early life, The Audition, and career beginnings</h3>

Monáe was born in Kansas City, Kansas, where she spent her early life; Monáe has stated that the fictional character of Dorothy from the <cite title="The Wizard of Oz (1939 film)">Wizard of Oz
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Monáe moved to New York City to study drama at the American Musical and Dramatic Academy. She attended a Performing Arts School called Freedom Theatre, which is the oldest African-American theatre in Philadelphia. After moving to Atlanta, Georgia, where she met OutKast's Big Boi, Monáe founded the Wondaland Arts Society with like-minded young artists and released her first unofficial studio album <cite>The Audition

Young", the song by the band Fun on which Monáe makes a guest appearance, reached No. 1 on the *Billboard* Hot 100 chart, her first appearance in the US Top 10. In August 2012, Monáe was chosen as the newest addition to the CoverGirl spokeswomen lineup.

Biography

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the element

- The element groups paragraphs of text
- It is possible to nest inline elements inside a paragraph
- However, any attempt to nest a block element inside a paragraph will cause the paragraph to segment^{[1]:} example
- Thus, elements are the "smallest" or "simplest" structure blocks available in HTML

Janelle Monáe Robinson (born December 1, 1985), known as Janelle Monáe (pron.: /me'nei/), is an American R&B/soul musician signed to Bad Boy Records and Atlantic Records. After making a mark with her first unofficial album, The Audition, Monáe debuted with a conceptual EP, Metropolis: Suite I (The Chase). The EP failed to make much of a commercial impact, peaking at No. 115 on the Billboard charts in the United States.

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heading elements

HTML defines six heading elements

- A heading element implies the beginning of a section
- Headings are hierarchical <h1> is the most "important" describing a document as a whole, <h2> is one level under <h1> and so on
- Content "sections" defined with headings are considered closed at the next heading of the same level

<u>example</u>

heading elements

- Heading elements will accept all kinds of nesting excluding other heading elements
- Nesting headings in headings will result in segmentation of the parent element

the <hgroup> element is used to group multiple headings

elements will segment if any block elements are placed within – however this has less to do with the display style of the nested element, and more with its semantic meaning (a element is considered to be the most basic structure element) – this means that if an inline element is forced to display as a block with CSS, nesting it will not segment the parent element.

block structure elements

In addition to and <h1> to <h6>, there is a variety of HTML block elements used for more complex structuring

address, article, aside, blockquote, footer, header, hgroup, nav, section

 The semantic meaning of these elements may change depending on their position in a document

- article, section, aside elements explicitly define a content section
- section defines a generic content section, related by topic
- article defines content that can be understood out of context with the rest of the document (and is thus viable for independent "syndication")
- aside defines content that is only tangentially relevant to the document (that is, if the section is omitted, the document as a whole is still clear)

- hgroup groups together multiple heading elements

- header contains introductory elements related to its closest parent section (headings, navigational elements, a logo, etc.)
- **footer** contains footer information related to its closest parent section (contact information, revision history, copyright information, etc.)
- <header> and <footer> elements do not contribute to the document outline

 address – contains contact information for the author of the closest parent section

 Do not use <address> to indicate addresses not related to contact information

Contact your instructor, Marina Barsky, using the following information

Email: marina.barsky@viu.ca

Office: 315/212

Phone Number: (250) 753-3245 Ext: 2321

<address>

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 blockquote – indicates a long form quotation – one that consists of multiple sentences for example (Special Edition) and included two new tracks. The EP was generally well received by critics, garnering Monáe a 2009 Grammy nomination in the Best Urban/Alternative Performance for her single "Many Moons",[9] festival appearances and opening slots for the indie pop band Of Montreal. Monáe also toured as the opening act for band No Doubt on their summer 2009 tour.[10] Her single "Open Happiness" was featured in the 2009 season finale of American Idol.[11] Monáe told MTV about her concept for her new album and also discussed her alter-ego named Cindi Mayweather, she said:

"Cindi is an android and I love speaking about the android because they are the new "other". People are afraid of the other and I believe we're going to live in a world with androids because of technology and the way it advances. The first album she was running because she had fallen in love with a human and she was being disassembled for that."[12]

In a November 2009 interview, Monáe revealed the title and concept behind her album, *The ArchAndroid*. The album was released on May 18, 2010. The second and third suites of *Metropolis* are combined into this full-length release, in which Monáe's alter-ego, Cindi Mayweather—also the protagonist of *Metropolis: The Chase Suite*— becomes a messianic

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 nav – groups together navigational elements relating to the closest parent section

Nesting and Overlapping Elements

- Elements may be nested inside other elements, with the exception of paragraph elements – which segment themselves when block elements are nested within
- Inline elements may also overlap each other blocks may not, since they "break" lines automatically

<u>example</u>