SESSION TWO
SEPTEMBER 5, 2023

HTML... A PRIMER

ENDLESS APPRECIATION
TO ERIC LI +
MICHAEL FEHRENBACH
FOR THE MATERIAL

AGENDA

- > Reading Discussion
- > HC Themes
- > Break
- > Lecture: HTML... a Primer
- > Demos
- > Homework

READING DISCUSSION

HARMONIC COLLECTION

- > Please break into groups of three.
- > Discuss your themes amongst yourself for 10-15 m. I will be coming around.
- > Focus on:
 - > SUSTAINABILITY: Is this a theme that will carry you through the entire Harmonic Collection project?
 - > BREADTH: Will this theme easily yield 11 unique entries?
 - > DEPTH: Will this theme be enough to mine, intellectually, for the whole semester?
 - > POINT OF VIEW: Does this provide a jumping off point to something interesting to say?

SHARE?

BREAK 1 10 MIN

(We can talk 1:1 if you'd like)



HTML is the 'skeleton' of the web.

It's the scaffolding on which content is built and inserted for access.



HYPERTEXT MARKUP LANGUAGE

SITS OUTSIDE OF EXPLICIT LANGUAGE

USES ANNOTATIONS TO TELL THE COMPUTER WHAT TO DO

SYSTEM WITH RULES

HTML

There have been **five** primary revisions to HTML, mostly affecting the syntax (rather than the function) of the language.

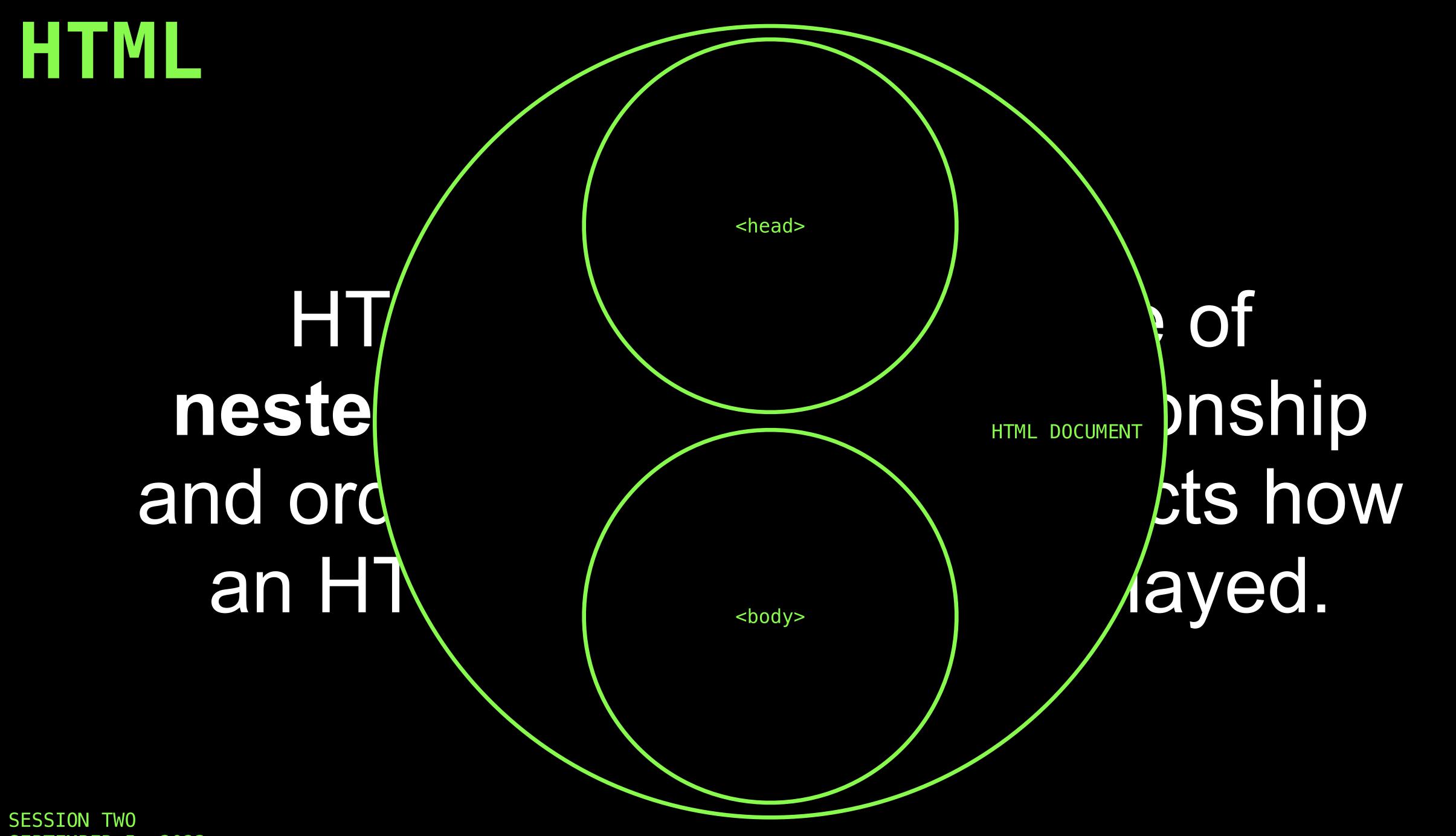


HTML consists of a range of nested elements. The relationship and ordering of elements affects how an HTML document is displayed.

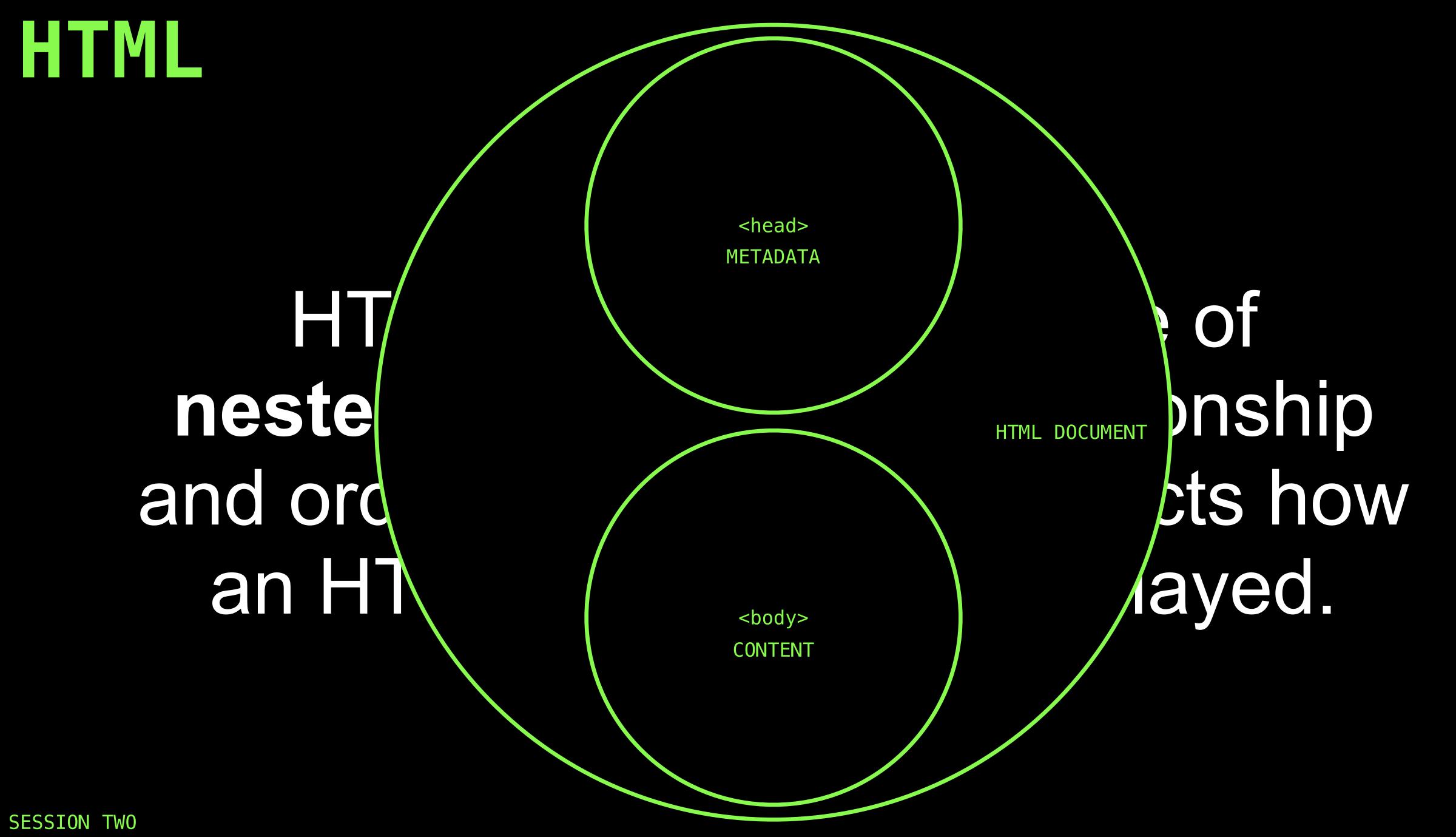
HTML neste nship HTML DOCUMENT cts how and ord anHI layed.

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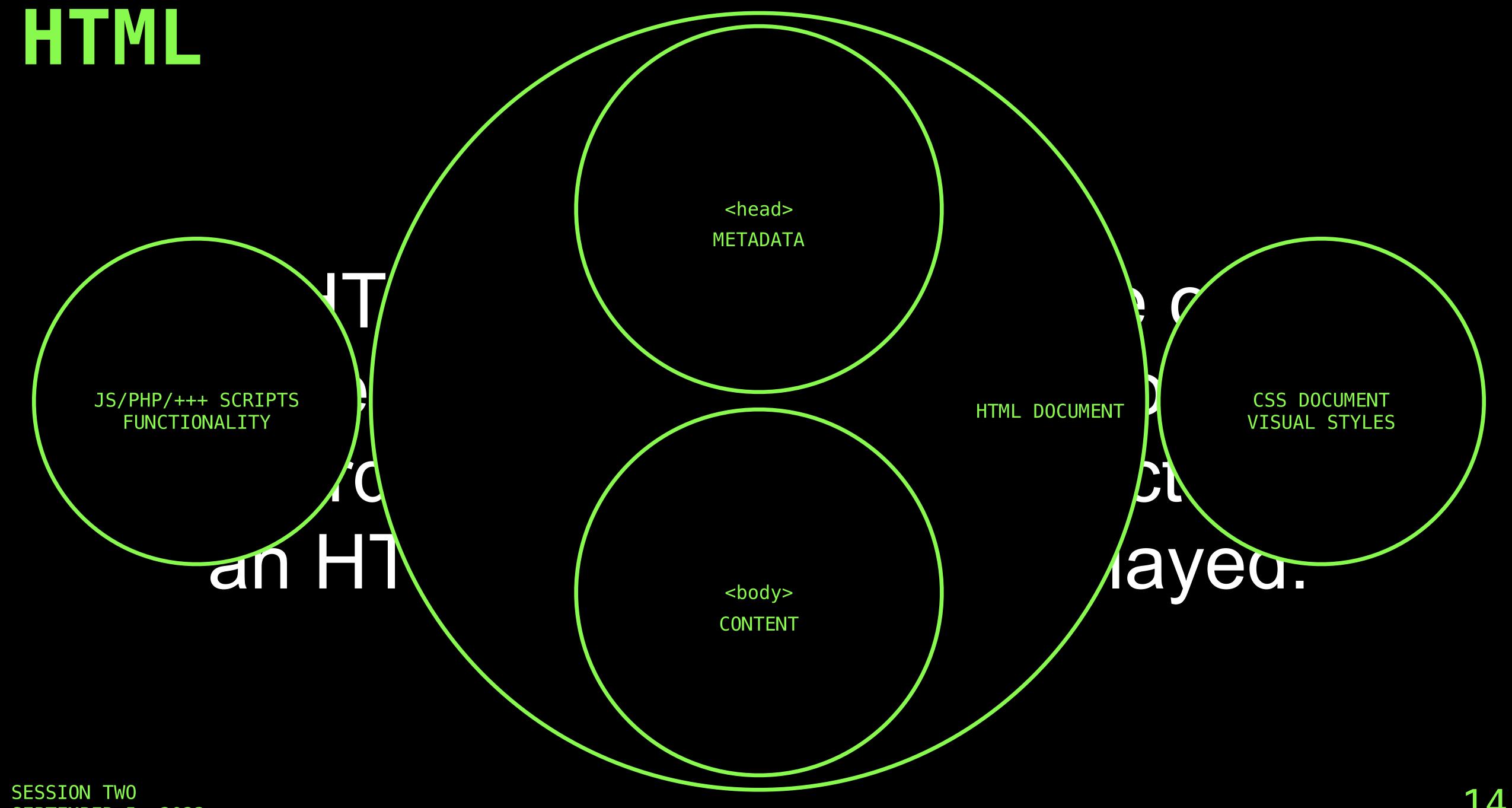
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HTML

```
<!DOCTYPE html>
<html>
```

```
<head>
      <title>My First Webpage</title>
</head>
```

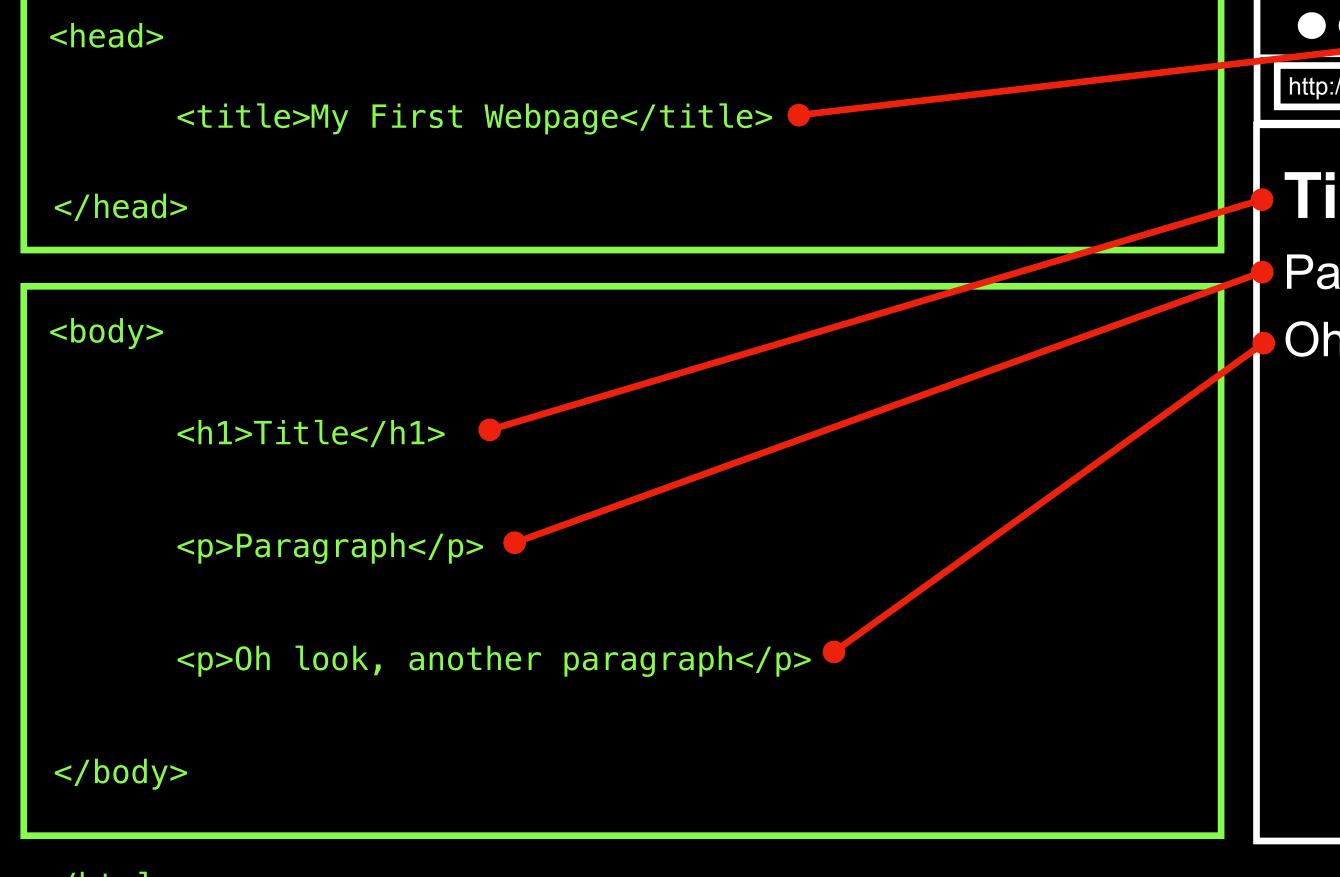
```
<body>
     <h1>Title</h1>
     Paragraph
     Oh look, another paragraph
</body>
```

My First Webpage http://url.url **Title** Paragraph Oh look, another paragraph

</html>

HITML

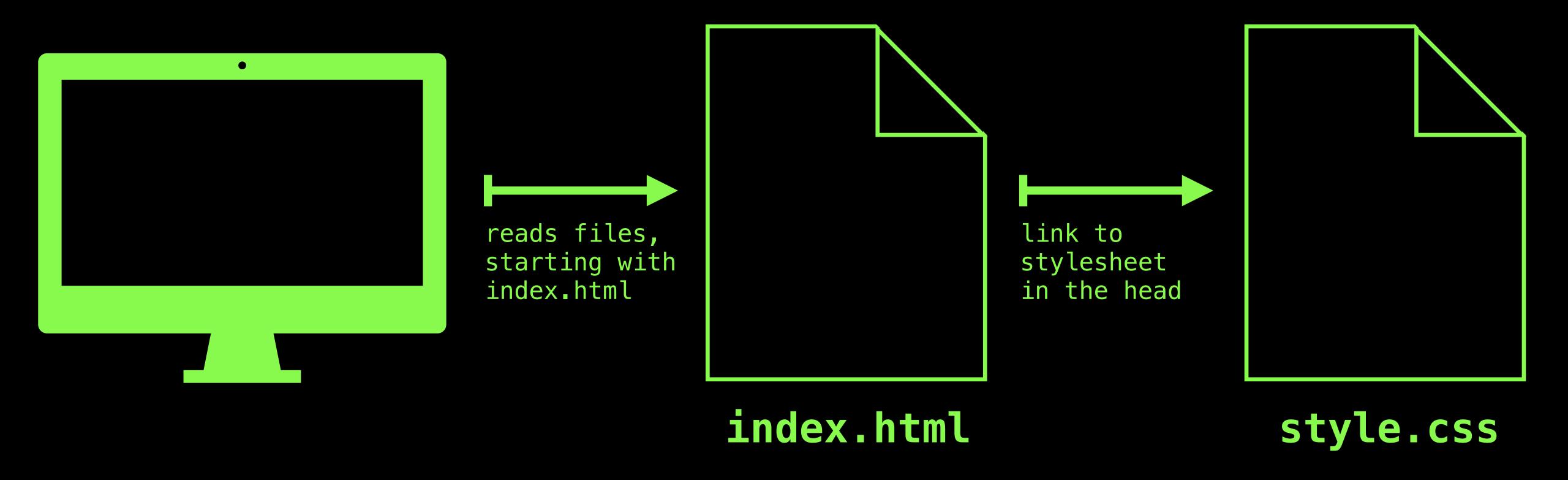
```
<!DOCTYPE html> <html>
```



My First Webpage http://url.url Title Paragraph Oh look, another paragraph

</html>

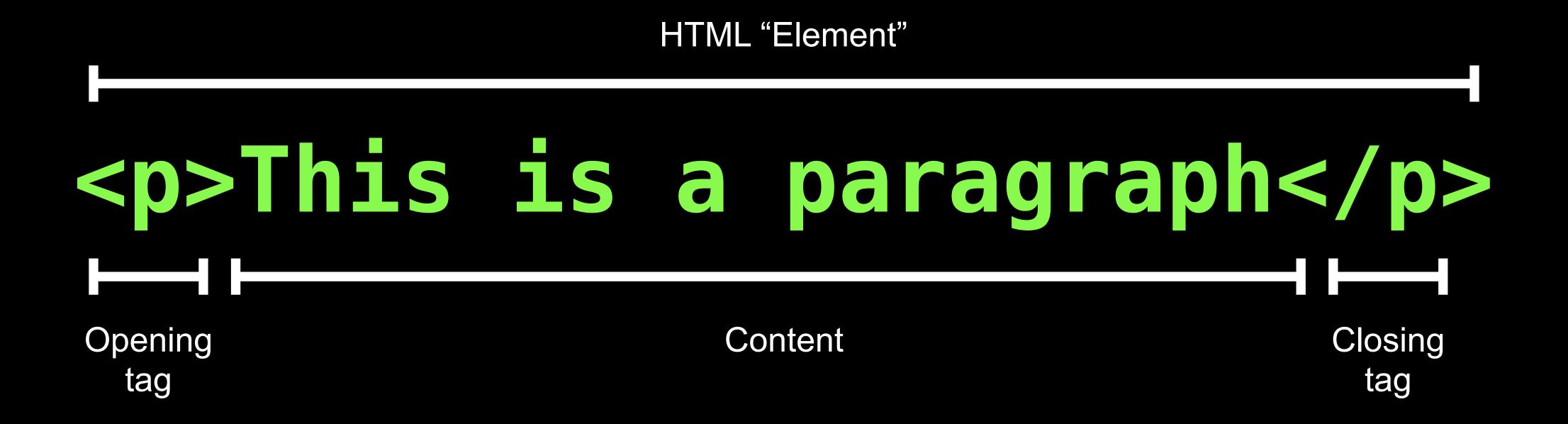
FILE STRUCTURE



FILE STRUCTURE

```
<head>
     k rel="stylesheet"
     href="style.css">
</head>
```

HTML ELEMENTS



HTML ELEMENTS

Some elements do not have any content or children. These are called **empty elements**. For example, **br>** and **** do not have closing tags.

Headings <h1> <h2> <h3> <h4> <h5> <h6>

<h1>Each sequential heading gets smaller.</h1><h2>Great for hierarchy.</h2>

Each sequential heading gets smaller. Great for hierarchy.

Paragraph

>

All text needs to be wrapped in tags.

All text needs to be wrapped in tags.

Links

<a>>

Links need to have a specified
path and can be nested within paragraphs

Links need to have a specified path and can be nested within paragraphs.

*href=Hypertext REFerence

lmages



The **source** of your element is a pointer to your image. If it is nested in a folder, the file path needs to be included in the code. e.g.

The **alt** tag in the image element is a place to add a caption or credit. It is not a visible thing, but is important for accessibility.

Areas

```
<header> <footer> <nav> <main>
  <article> <section> <div>
```

```
<header>
<h1>for example</h1>
<header>
```

Area type elements are used for organization and navigation. These compartments don't have inherent display qualities, but can be referenced in your style sheet or help with the accessibility of your code.

Styles

```
<strong> <em>
```

These tags wrap around text to create styled effects

These tags wrap around text to create styled effects.

Lists

```
ul>
 ul is 'unordered'
 use it to build
 bulleted lists
 li>li is line item
ul>
```

- ul is 'unordered'
- use it to build bulleted lists
- li is line item

```
ol is 'ordered'
 use it to build
 numbered lists
```

- 1. ol is 'ordered'
- 2. use it to build numbered lists

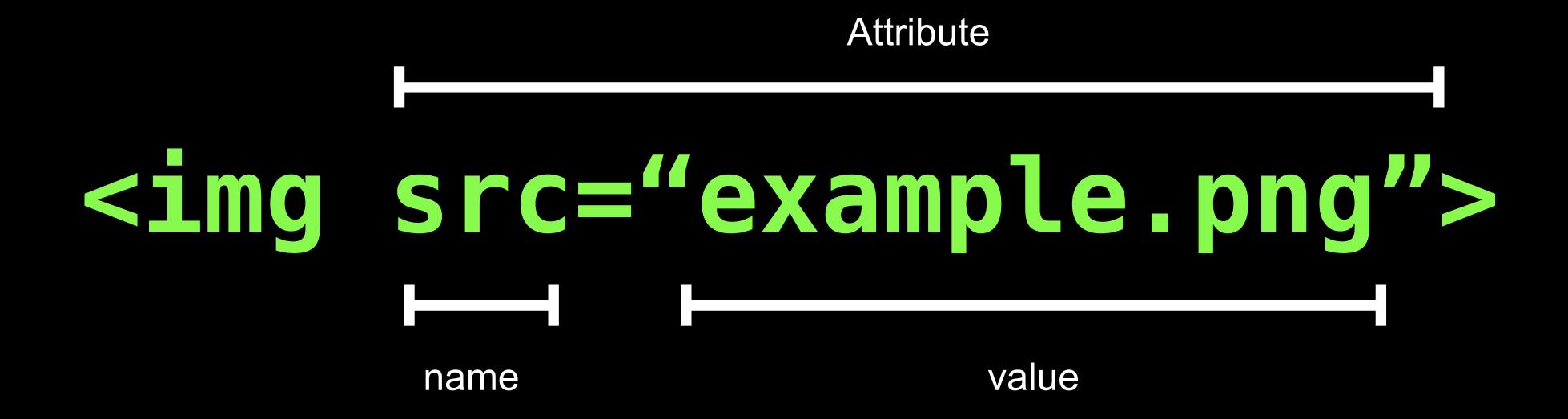
HTML ATTRIBUTES

HTML elements can have 'attributes,' which provide more information about the element.

HTML ATTRIBUTES

'alt', 'href', and 'src' are examples of this.

HTML ATTRIBUTES



SOME COMMON ATTRIBUTES

src

Defines image path

SOME COMMON ATTRIBUTES

as a specified group

FORMATTING YOUR HTML

HTML is read very simply by the computer: left to right, top to bottom, without regards to case or line breaks.

FORMATTING YOUR HTML

FORMATTING YOUR HTML

```
<body>
    <h1>Dog Breeds</h1>
    There are many kind of
        dog breeds

        German Shepherd
        Bulldog
        Poodle
        <lu></body>
```

```
<body><h1>Dog Breeds</h1>There are
many kind of dog breeds
German ShepherdBulldogPoodle
```

BLOCK VS INLINE

Block elements always start on a new line and by default take up the full width available. They can be formatted to have top- and bottom-margins.

BLOCK VS INLINE

Inline elements do NOT start on a new line, and take up only as much space as their content demands.

Other elements will flow around them.

BLOCK VS INLINE

BLOCK

```
<address> <article> <aside>
  <blockquote> <canvas> <dd> <div> <dl>
      <dt> <fieldset> <figcaption> <figure>
  <footer> <form> <h1>-<h6> <header> <hr>
      <main> <nav> <noscript>    <section>  <tfoot>
```

INLINE

 <a>

BLOCK

```
<!DOCTYPE html>
<html>
   <head>
      <title>Block elements</title>
   </head>
   <body>
      <h1>Blocks are full-width</h1>
      Longer text will wrap
      internally within each block
      element.
      Other blocks will then stack
      underneath.
      <aside>
        They can still be
       nested.
        And will push down the
       page 
      </aside>
   </body>
</html>
```

Blocks are full-width

Longer text will wrap internally within each block element.

Other blocks will then stack underneath

They can still be nested.

And will push down the page.

INLINE

```
<!DOCTYPE html>
<html>
   <head>
      <title>Inline elements</title>
   </head>
   <body>
      <h1>Inline elements flow
      <em>within a block</h1>
      To give it different
      <strong>meaning</strong>.
      0r <span style="color:
      red;">style</span> it.
      0r <a href="/topic/"
      html">link it</a> somewhere.</
      p>
      Images default <img</p>
      src="tim.jpg"> to inline.
   </body>
</html>
```

Inline elements flow within a block

To give it different meaning.

Or style it.

Or <u>link it</u> somewhere.



Images default

to inline.

COMMENTS

Comments are elements included in the HTML that do not show up in the display. Use these for wayfinding, notetaking, whatever you prefer.

COMMENTS

```
<!DOCTYPE html>
<html>
   <head>
      <title>Comments</title>
   </head>
   <body>
      Sometimes you want to note
      something while coding.
      <!-- This text will not be
      shown in the browser! -->
      You can write these notes in
      comments.
   </body>
</html>
```

Sometimes you want to note something while coding.

You can write these notes in comments.

BUILT-IN STRUCTURES

We talked about **lists** already, but HTML also has functionality for **tables** and **details**.

TABLES

Tables are a bit vintage (we use <div>
now for most scaffolded organization)
but can be good in a pinch for
some information.

TABLES

```
<h1>A basic table</h1>
<thead>
   Header
    Another header
    Still a header
   </thead>
 A cell
    Another cell
    Still a cell
```

A basic table

Header Another header Still a header A cell Another cell Still a cell

DETAILS

Tables are a bit vintage (we use <div>
now for most scaffolded organization)
but can be good in a pinch for
some information.

DETAILS

```
<h1>Details/summary are
interactive</h1>
<details>
   <summary>Clicking this toggles the
   element</summary>
      You can have any content
      down here.
      Multiple elements, whatever
      you want.
</details>
<details open>
   <summary>They also can be open to
   start</summary>
   This will already be visible.
</details>
```

Details/summary are interactive

- Clicking this toggles the element
- ▼ They also can be open to start
 This will already be visible

USER-AGENT STYLESHEETS

We'll discuss CSS and custom stylesheets next week—so your HTML is referencing the stylesheet built-in to your browser.

USER-AGENT STYLESHEETS

This is rarely what we want, but gives you a sense of what the early web looked like.

SPECIAL CHARACTERS

We talked about the need for precision in code.

Many characters are not read by the computer as machine text.

UNICODE

U+2014

(em dash)

88212;

—

&x2014;

QUESTIONS?

BREAK 2 5 MIN

Write a basic html webpage.

Hello, World.

Today, we learned about the basics of *HTML*.

There are two parts of any webpage:

- A head
- A body

The head contains metadata, while the body dictates the content of the webpage.

<put any image here>

Here is a link.

```
<!DOCTYPE html>
<html>
<head>
  <title>My webpage</title>
</head>
<body>
  <h1>Hello, World.</h1>
  Today, we learned about the basics of <em>HTML</em>
  There are two parts of any webpage:
  ul>
     A head
     A body
  The head contains <strong>metadata</strong>, while the body dictates
  the <strong>content</strong> of the webpage.
  <img src="yourimage.jpg">
  <a href="yourlink.com">Here</a> is a link.
</body>
</html>
```

Analyze an existing webpage.

Navigate to a random wikipedia page and assign elements to the content.



Q Search Wikipedia

Search

Create account Log in •••

<h1> Cosgrove Hall, Northamptonshire </h1>

文A Add languages ~

Contents [hide]

(Top)

References

Article Talk

From Wikipedia, the free encyclopedia

Coordinates

Edit View history Tools >

Coordinates: @ 52.0735°N 0.8471°W

For the animation studio, see Cosgrove Hall Films.

Cosgrove Hall is an early-18th-century Grade II listed country house in Cosgrove, Northamptonshire.^{[1][2]} It was built on the site of an earlier house by the Furtho family. It is not open to the public.^[3] It may have been built by John Lumley of Northampton.^[4] In the nineteenth century, the building belonged to John Christopher Mansel.^{[5][6]} In May 1945, Queen Geraldine of Albania, the Queen consort to King Zog I of Albania, opened a fête at the hall.^[7] The building was destroyed by fire in October 2016.^[8]

As well as the hall the other Grade II buildings on the estate are the dovecote, the stable block and the ice house. [9][10][11] In front of the house, there is an excavated Roman bath house, viewable from the Grand Union Canal. [12]



References [edit]

- ^ Historic England, "Cosgrave Hall and Attached Office Wing (1371636)" ∠, National Heritage List for England, retrieved
 7 October 2016
- 2. ^ "Victoria County History Northamptonshire A History of the County of Northampton: Volume 5, the Hundred of Cleley Cosgrove" . Victoria County History Northamptonshire, Vol. 5. British History Online. Retrieved 29 October 2015.
- 3. A Rights of Way, Northamptonshire, Northants County Council 2003, accessed 24 December 2010 permanent dead link]
- 4. ^ Pevsner, Nikolaus; Cherry, Bridget (revision) (1961). *The Buildings of England Northamptonshire*. London and New Haven: Yale University Press. pp. 159–160. ISBN 978-0-300-09632-3.
- Notober 2016.
- 6. ^ Burke, Sir Bernard (1871). A Genealogical and Heraldic History of the Landed Gentry of Great Britain & Ireland ∠.
 Retrieved 8 October 2016.
- ^ Pearson, Owen (July 2006). Albania in the Twentieth Century, A History

 . Vol. 2. I.B.Tauris. ISBN 9781845111045.
 Retrieved 8 October 2016.
- 8. ^ Cosgrove Hall fire: 18th Century country mansion gutted ☑, BBC, 7 October 2016, retrieved 8 October 2016



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LIVE

YOUR FIRST HC ENTRY

HOMEWORK FOR YOU

- Complete Codeacademy's
 Learn HTML course, sections
 1.1 (Introduction to HTML) and
 1.2 (HTML Anatomy)
- > Watch *Basics of HTML* by Laurel Schwulst

Nothing needs to be submitted for either of these, but I highly recommend getting more hands-on practice before diving into your HC entry.

FOR ME

- > Finalize your Harmonic Collection theme. If it changes significantly, please send me an email.
- > Complete your first HC entry, and submit a zip folder of the files to Canvas before next class.

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THANK YOU