HTML Basics - HTML = HyperText Markup Language - HyperText: Links connecting web pages. - Markup Language: Uses tags to structure content. - First Website: https://info.cern.ch/hypertext/WWW/TheProject.html

Software Setup 1. Install Visual Studio Code – Free code editor (https://code.visualstudio.com/) 2. Install Extensions: - Live Preview - Prettier - Live Server

HTML Tags

1. Headings <h1> to <h6>
2. <h1> – Most important, main title
3. <h2> – Major section
4. <h3> – Sub-section under <h2> ... down to <h6> (least important)

5. Purpose: Structure content logically for humans & machines

6. Paragraph <p>

7. Groups sentences into blocks
8. Browsers add space automatically

9. Avoid multiple <br> for spacing; use multiple <p> tags

10. Horizontal Rule <hr>

11. Creates a thematic break / horizontal line

12. Separates topics visually

13. Line Break

14. Creates a single line break (like pressing Enter)

15. Example: <p>221B Baker Street
London, England</p>

16. Lists <ul>, <ol>,

17. – Unordered list (bullets)
18. – Ordered list (numbers)
19. – List item

20. Example: <ul> Tea Bag Water Sugar   Boil water Add tea, sugar, milk Boil 5 min Serve tea

21. Anchor <a>

22. Creates hyperlinks

23. Attribute href – URL to open
24. Example: Visit Coder Army

25. Target attribute: _self (same tab), _blank (new tab)

26. Image <img>

27. Embeds images, self-closing tag
28. Attributes: src (mandatory), alt (description)
29. Example: <img src="image.jpg" alt="Description">