

# *Web development basic*

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*Html, css and java script*

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# *Introduction*

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- *HTML, CSS, AND JAVASCRIPT ARE THE THREE CORE TECHNOLOGIES*
- *BEHIND WEB PAGES. HTML STRUCTURES THE CONTENT, CSS STYLES IT*
- *WITH LAYOUTS AND COLORS, AND JAVASCRIPT MAKES THE PAGE*
- *INTERACTIVE. TOGETHER, THEY CREATE MODERN, DYNAMIC, AND*
- *RESPONSIVE WEBSITES. LEARNING THESE TECHNOLOGIES IS ESSENTIAL*
- *FOR STUDENTS, DEVELOPERS, AND ANYONE INTERESTED IN WEB*
- *DEVELOPMENT. THIS PRESENTATION INTRODUCES EACH LANGUAGE, THEIR*
- *FEATURES, EXAMPLES, AND HOW THEY WORK TOGETHER TO BUILD*
- *PROFESSIONAL WEBSITES.*

*What is html?*



- *ML STANDS FOR HYPERTEXT MARKUP LANGUAGE. IT IS NOT A PROGRAMMING*
- *LANGUAGE, BUT A MARKUP LANGUAGE THAT STRUCTURES THE CONTENT OF WEB*
- *PAGES. HTML USES TAGS TO DEFINE ELEMENTS LIKE HEADINGS, PARAGRAPHS,*
- *LINKS, IMAGES, TABLES, AND FORMS. EVERY WEBSITE YOU VISIT USES HTML*
- *AS THE FOUNDATION OF ITS CONTENT. WITHOUT HTML, BROWSERS WOULD HAVE*
- *NO WAY TO ORGANIZE AND DISPLAY TEXT, IMAGES, AND MULTIMEDIA*
- *ELEMENTS*
- *PROPERLY.*



# *Features of html*

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- *HTML IS SIMPLE AND EASY TO LEARN, MAKING IT IDEAL FOR BEGINNERS. IT IS*
- *PLATFORM-INDEPENDENT AND SUPPORTED BY ALL MAJOR BROWSERS. HTML*
- *SUPPORTS MULTIMEDIA LIKE IMAGES, AUDIO, AND VIDEO. IT ALLOWS THE CREATION OF*
- *HYPERLINKS, CONNECTING DOCUMENTS TOGETHER. HTML ALSO SUPPORTS FORMS FOR*
- *USER INPUT. BY COMBINING HTML WITH CSS AND JAVASCRIPT, DEVELOPERS CAN*
- *CREATE STRUCTURED, STYLED, AND INTERACTIVE WEBSITES, MAKING IT THE BACKBONE*
- *OF WEB DEVELOPMENT.*

# *Html example*

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- `H1>HELLO, WORLD!</H1>`
  - `<P>THIS IS MY FIRST WEBPAGE.</P>`
  - `<!DOCTYPE HTML>`
  - `<HTML>`
  - `<HEAD>`
  - `<TITLE>MY FIRST PAGE</TITLE>`
  - `</HEAD>`
  - `<BODY>`
  - `<H1>HELLO, WORLD!</H1>`
  - `<P>THIS IS MY FIRST WEBPAGE.</P>`
  - `</BODY>`
  - `</HTML>`

# *What is css?*

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- *IS CSS?*
  - *CSS STANDS FOR CASCADING STYLE SHEETS. IT DESCRIBES HOW HTML ELEMENTS*
  - *SHOULD BE DISPLAYED ON SCREEN, PAPER, OR OTHER MEDIA. CSS ENHANCES*
  - *WEBPAGES WITH FONTS, COLORS, LAYOUTS, SPACING, AND ANIMATIONS. BY*
  - *SEPARATING CONTENT FROM DESIGN, CSS MAKES WEB PAGES EASIER TO MANAGE*
  - *AND UPDATE. IT SUPPORTS RESPONSIVE DESIGN, ENSURING THAT WEBSITES ADJUST TO*
  - *DIFFERENT SCREEN SIZES, FROM DESKTOPS TO TABLETS AND SMARTPHONES, IMPROVING*
  - *USER EXPERIENCE AND ACCESSIBILITY.*

# *Features of css*

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- FROM PRESENTATION, ALLOWING CONTENT AND STYLE TO BE MANAGED
- INDEPENDENTLY. CSS SUPPORTS RESPONSIVE DESIGN THROUGH MEDIA QUERIES,
- ENSURING WEBSITES ADAPT ACROSS DEVICES. IT ENABLES TRANSITIONS,
- TRANSFORMATIONS, AND ANIMATIONS, ENHANCING VISUAL APPEAL. CSS CAN APPLY
- STYLES TO MULTIPLE PAGES AT ONCE USING EXTERNAL STYLESHEETS, ENSURING
- CONSISTENCY. ITS FEATURES HELP DEVELOPERS CREATE ATTRACTIVE, PROFESSIONAL, AND
- USER-FRIENDLY WEB EXPERIENCES.



# Css example

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- `•H1 { COLOR: BLUE; TEXT-ALIGN: CENTER; }`
- `•P { FONT-SIZE: 18PX; COLOR: GRAY; }`
- `•H1 {`
- `•COLOR: BLUE;`
- `•TEXT-ALIGN: CENTER;`
- `•}`
- `•P {`
- `•FONT-SIZE: 18PX;`
- `•COLOR: GRAY;`
- `•}`



# *What is JavaScript*

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- *JAVASCRIPT IS A PROGRAMMING LANGUAGE THAT BRINGS INTERACTIVITY TO WEB*
- *PAGES. UNLIKE HTML AND CSS, WHICH DEFINE STRUCTURE AND STYLE,*
- *JAVASCRIPT ENABLES DYNAMIC BEHAVIOR. IT CAN RESPOND TO USER ACTIONS LIKE*
- *CLICKS, INPUT, AND SCROLLING. JAVASCRIPT IS USED FOR FORM VALIDATION,*
- *ANIMATIONS, INTERACTIVE MAPS, AND EVEN BUILDING FULL WEB APPLICATIONS.*

# *Features of JavaScript*

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- *JAVASCRIPT IS LIGHTWEIGHT, INTERPRETED, AND EASY TO USE. IT SUPPORTS EVENT-*
- *DRIVEN PROGRAMMING, ALLOWING WEBSITES TO RESPOND TO USER ACTIONS.*
- *JAVASCRIPT IS PLATFORM-INDEPENDENT AND WORKS ACROSS ALL BROWSERS. IT*
- *INTEGRATES SEAMLESSLY WITH HTML AND CSS, ENABLING DYNAMIC UPDATES OF*
- *PAGE CONTENT. IT SUPPORTS OBJECT-ORIENTED FEATURES, MAKING IT VERSATILE FOR*

# Java script example

```
• DOCUMENT.querySelector('h1').onclick = function() {  
•   alert('you clicked the heading!');  
• }  
•  
• <!DOCTYPE HTML>  
• <HTML>  
•   <HEAD>  
•     <TITLE>JAVASCRIPTEXAMPLE</TITLE>  
•   </HEAD>  
•   <BODY>  
•     <H1 ID="GREET">HELLO</H1>  
•     <BUTTON ONCLICK="CHANGETEXT()">CLICKME</BUTTON>  
•   </SCRIPT>  
•   <FUNCTION CHANGETEXT() {  
•     DOCUMENT.getElementsByTagName("GREET").innerHTML = "WELCOME TO JAVASCRIPT";  
•   }  
• </SCRIPT>  
• </BODY>  
• </HTML>
```

## *How they work together*

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- PROVIDES STRUCTURE, CSS HANDLES DESIGN, AND JAVASCRIPT ADDS INTERACTIVITY.
- FOR EXAMPLE, HTML CREATES A BUTTON, CSS STYLES IT WITH COLORS, AND
- JAVASCRIPT MAKES IT RESPOND TO CLICKS. WITHOUT ONE OF THESE, A WEBSITE IS
- INCOMPLETE. THIS POWERFUL COMBINATION ENSURES FUNCTIONALITY, BEAUTY, AND
- USABILITY. UNDERSTANDING THEIR RELATIONSHIP IS THE FOUNDATION FOR DEVELOPING
- MODERN, RESPONSIVE, AND USER-FRIENDLY WEB APPLICATIONS EFFECT



## *Advantage*

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- ☐ MASTERING HTML, CSS, AND JAVASCRIPT OFFERS STRONG CAREER OPPORTUNITIES.
- THEY ARE THE FOUNDATION OF FRONT-END WEB DEVELOPMENT. WITH THESE SKILLS,
- DEVELOPERS CAN BUILD RESPONSIVE, INTERACTIVE WEBSITES, ESSENTIAL FOR
- BUSINESSES AND PERSONAL PROJECTS. THEY ALSO OPEN DOORS TO ADVANCED

# *All three together*

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- *HTML BUILDS STRUCTURE.*
- □ *CSS BEAUTIFIES.*
- □ *JAVASCRIPT MAKES IT INTERACTIVE.*

## *Conclusion*

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- *TML, CSS, AND JAVASCRIPT ARE THE PILLARS OF WEB DEVELOPMENT. HTML*
- *BUILDS THE STRUCTURE, CSS ENHANCES DESIGN, AND JAVASCRIPT POWERS*
- *INTERACTIVITY. TOGETHER, THEY CREATE THE MODERN WEB WE USE DAILY. MASTERING*
- *THESE LANGUAGES IS THE FIRST STEP TOWARD ADVANCED DEVELOPMENT WITH*