The <audio> element in HTML is used to embed audio content (sound files) into a web page. It allows users to listen to audio directly in their browser without needing external plugins (in most cases).

Basic Structure:

- <audio>: The container element for the audio.
- <source>: Specifies the audio file and its type. You can include multiple
 <source> elements for different audio formats (for browser compatibility).
- controls: Adds default browser audio controls (play/pause, volume, etc.). This is generally recommended for usability.
- The text between the opening and closing <audio> tags is displayed if the browser doesn't support the <audio> element.

Key Attributes:

- src (Source): Specifies the URL of the audio file. This can be used directly on the <audio> tag if you only have one audio source. However, using <source> elements is generally preferred for better browser compatibility.
- controls: Adds default browser audio controls. It's a boolean attribute (just its presence is enough).
- autoplay: Starts playing the audio automatically as soon as it's loaded. Use with caution! Autoplaying audio can be annoying for users. It's often better to let the user initiate playback.
- loop: Repeats the audio when it finishes playing. It's a boolean attribute.
- muted: Mutes the audio. It's a boolean attribute.
- preload: Specifies how much of the audio should be loaded before playback.
 - o auto: The browser decides.
 - o metadata: Only the metadata (information about the audio) is loaded.
 - o none: The audio is not preloaded.
- volume: Sets the audio volume (a number between 0.0 and 1.0).

Using <source> Elements (Recommended):

Using <source> elements inside the <audio> tag allows you to provide multiple audio files in different formats. The browser will choose the first format it supports. This is crucial for cross-browser compatibility.

The <video> element in HTML is used to embed video content into a web page. It allows users to watch videos directly in their browser without needing external plugins (in most cases).

Basic Structure:

- <video>: The container element for the video.
- <source>: Specifies the video file and its type. You can include multiple
 <source> elements for different video formats (for browser compatibility).
- controls: Adds default browser video controls (play/pause, volume, fullscreen, etc.). This is generally recommended for usability.
- width and height: Specify the dimensions of the video player.
- The text between the opening and closing <video> tags is displayed if the browser doesn't support the <video> element.

Key Attributes:

- **src (Source):** Specifies the URL of the video file. This can be used directly on the <video> tag if you only have one video source. However, using <source> elements is generally preferred for better browser compatibility.
- controls: Adds default browser video controls. It's a boolean attribute (just its presence is enough).
- autoplay: Starts playing the video automatically as soon as it's loaded. **Use with caution!** Autoplaying video can be annoying for users. It's often better to let the user initiate playback.
- loop: Repeats the video when it finishes playing. It's a boolean attribute.
- muted: Mutes the video. It's a boolean attribute.
- poster: Specifies an image to display while the video is loading or before the user starts playback.
- preload: Specifies how much of the video should be loaded before playback.
 - o auto: The browser decides.
 - o metadata: Only the metadata (information about the video) is loaded.
 - o none: The video is not preloaded.
- width and height: Specify the dimensions of the video player in pixels. It's generally recommended to control dimensions with CSS for responsiveness.

Using <source> Elements (Recommended):

Using <source> elements inside the <video> tag allows you to provide multiple video files in different formats. The browser will choose the first format it supports. This is crucial for cross-browser compatibility.