CMSC335

Web Application Development with JavaScript



Event Propagation

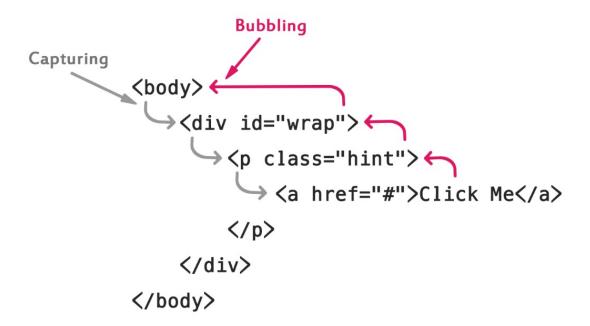
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Event Propagation

- A mechanism that defines how events propagate or travel through the DOM tree to arrive at its target and what happens in the process
- In modern browsers, event propagation proceeds in two phases: the
 capturing phase (from the top of the DOM to the point where the
 event took place) and the bubbling phase (from the place the event
 took place up)

Source: https://www.tutorialrepublic.com/javascript-tutorial/javascript-event-propagation.php



Event Propagation

- **Example:** EventPropagation.html (click on each line displayed) and see results in the console
 - Notice that we have nested div's
 - By default, we have bubbling propagation
- **Example:** EventPropagationControlled.html
 - Set capturingPhase variable to true to see alternative

Event Target

- A handler on a parent element can get the event details
 - The most deeply nested element that caused the event is called a target element, accessible as event.target
- Example: Accessing Element Event Ocurred. html

Stopping Bubbling

- Any handler may decide that the event has been fully processed and stop the bubbling
- Use event.stopPropagation()
- Example: EventStopBubbling.html

Video Camera

• **Example:** VideoCamera.html