

CMSC335

Web Application Development with JavaScript



Miscellaneous

Department of Computer Science

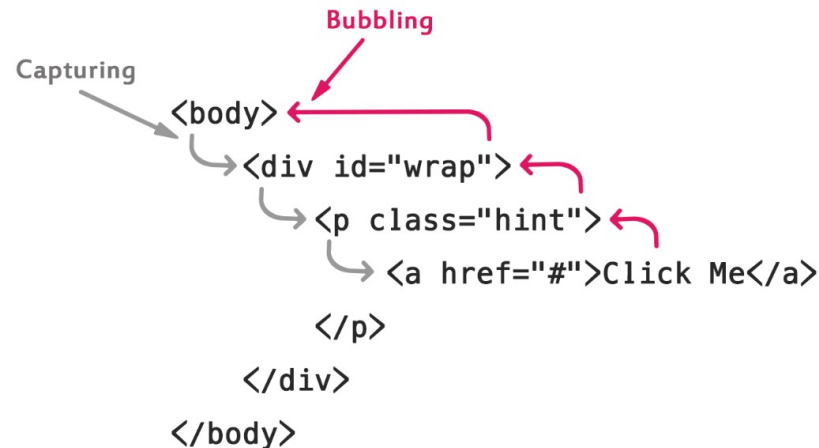
University of MD, College Park

Slides material developed by Ilchul Yoon, Nelson Padua-Perez

Event Propagation

- A mechanism that defines how events propagate or travel through the DOM tree to arrive at its target and what happens to it afterwards
- In modern browsers event propagation proceeds in two phases: ***capturing*** and ***bubbling*** phase

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



- **Example:** EventPropagation.html (click on each line displayed)
- **Example:** EventPropagationControlled.html

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:** AccessingElementEventOcurrred.html

Stopping Bubbling

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

Fetching Image

- **Example:** FetchingImage.html, FetchingImage2.html

Generator Functions

- **Generator function** - Special type of function that allows the generation of values
- **Steps**
 - Define a generator function that relies on **yield** to stop execution and return a value
 - The **generator function** returns a generator object. By using `next()` on this object you get another object with the properties **value** and **done**
 - **value** represents the next value retrieved and **done** whether the end of the generator function has been reached
- **Example:** `generator.js`

Sending Email with Node.js

- https://www.w3schools.com/nodejs/nodejs_email.asp

MySQL Access from Node.js

- Create database
 - https://www.w3schools.com/nodejs/nodejs_mysql_create_db.asp
- Create table
 - https://www.w3schools.com/nodejs/nodejs_mysql_create_table.asp
- Insert data
 - https://www.w3schools.com/nodejs/nodejs_mysql_insert.asp
- Select data
 - https://www.w3schools.com/nodejs/nodejs_mysql_select.asp
- Delete data
 - https://www.w3schools.com/nodejs/nodejs_mysql_delete.asp

Video Camera

- **Example:** VideoCamera.html