CS472 WAP

Event Driven Programming

JavaScript for Modern Web Apps

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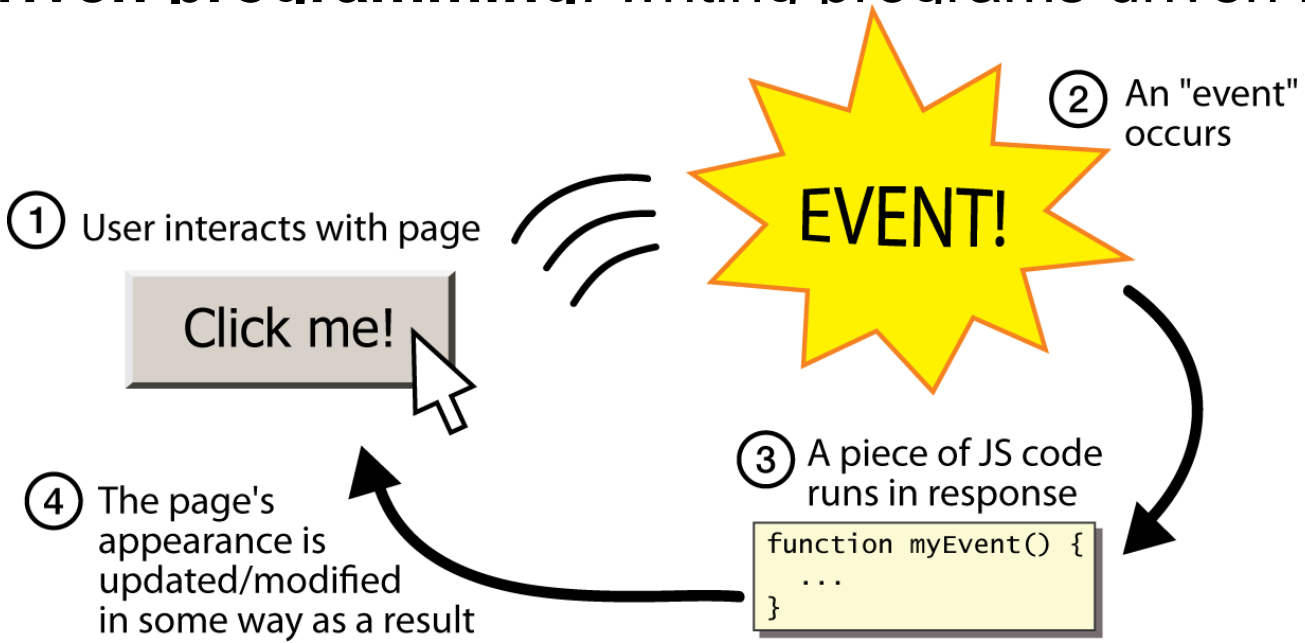
Main Point Preview

- JavaScript programs have no main. They respond to user actions called events.

- *JavaScript was designed as a language that could effectively respond to browser and DOM events. We respond most effectively to events in our environment if our awareness is settled and alert.*

Event-driven programming

- JS programs have no main; they respond to user actions called **events**
- **event-driven programming**: writing programs driven by user events



Button: <button>

```
<button>Click me!</button>
```

- To make a responsive button or other UI control:
  - choose the control (e.g. button) and event (e.g. mouse click) of interest
  - write a JavaScript function to run when the event occurs
  - attach the function to the event on the control

Event handlers

```
<element attributes onclick="function();">...

<button onclick="myFunction();">Click me!</button>
```

- JavaScript functions can be set as **event handlers**
  - when you interact with the element, the function will execute
- onclick is just one of many event HTML attributes we'll use

- but popping up an alert window is disruptive and annoying
  - A better user experience would be to have the message appear on the page...

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