CS1116/CS5018

Web Development 2

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Calling a function

- function irritate_me() {
 window.alert('Irritating, huh?'); Defining a function, e.g.:
- Executing a function by calling it, e.g.: irritate_me();
- Arranging for a function to be executed whenever an event occurs, e.g.: window.addEventListener('click', irritate_me, false);

Event-driven programming

- Programs that use this idea are called event-driven programs
- In client-side JavaScript, events include:
- o when the Web page has finished loading
 - o when the user clicks on a hyperlink
 - o when the user clicks on a button
- o when the user moves the mouse into or out of a certain region of the screen
 - o and so on
- The function that runs is called the event listener (or event handler)

Event objects

- When an event occurs, relevant information about the event is stored in an object
- o clientX and clientY the viewport coordinates of the mouse click • E.g. in the case of a mouse click, the event has properties that include

```
window.addEventListener('click', irritate_me, false);
```

Question

 In fact, our JavaScript programs already contained two examples of event-driven programming
 Q: What are they?

An incomplete program