CSC309 Programming on the Web

week 9: event loop revisit, jsonp

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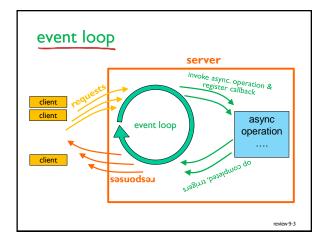
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motivation

- understanding event loop
 - a couple of examples in week 6
 - more details (and live-coding) this week
- · cross-origin resource sharing
 - requesting data from other domains
 - we saw http, XMLHttpRequest (XHR) already
 - jsonp this week

review 9-2



// assume // req1 is non-blocking: async part: ~4 s; rest: ~0 s. // req2 is synchronous: requires ~6 s. // req3 is non-blocking: async part: ~2 s; rest: ~0 s. // req4 is synchronous: requires ~0 s. // Question 1: req2 and req4 enter at time 12, in order; // what time is each responded? // Question 2: req4 and req2 enter at time 12, in order; // what time is each responded?

case study

```
// req1 is non-blocking: async part: ~4 s; rest: ~0 s.
// req2 is synchronous: requires ~6 s.
// req3 is non-blocking: async part: ~2 s; rest: ~0 s.
// req4 is synchronous: requires ~0 s.
// Question 3: req3, req4, req1, and req2 enter at time 12;
// what time is each responded?
// Question 4: req3, req4, req2, and req1 enter at time 12;
// what time is each responded?
// Question 5: req2, req3, and req4 enter at time 12;
// what time is each responded?
```

case study 9-5

case study

```
// this simulates request 1, with an asynchronous function
$("req1").click(function(){
    $("#21").html(" request 1 started at "+time());

setTimeout (function timer() {
    $("#21").append(" and processed at "+time());
    }, 4000);
});
```

case study 9-6

```
// this simulates request 3, with an asynchronous function $("#23").html(" request 1 started at "+time());

setTimeout (function timer() {
    $("#23").append(" and processed at "+time());
    }, 2000);

// this simulates request 4
    $("#24").html(" request 4 processed at "+time());
```

