

Surprises About Browser-to-Server Request Processing

Charlie Arehart
charlie@carehart.org



To those downloading this

- This talk was offered as part of a “lightning round” session at the Atlanta CFUG
 - 5-minute quick demos
 - I don’t show here the details of the demos I show
 - But I do summarize them at the end



Introduction

- We presume that when we request a page, the browser will send that request immediately to the server
 - It's not always so...
- Demo



Requesting pages from one server in two tabs

- If url and querystring are same:
 - Chrome and FF WILL queue them, only one runs at a time
 - + IE will not queue them, letting both run at once
- Implications
 - If a user has one tab accessing a slow page, and tries to access it in a new tab, cannot in Chrome/FF
- If url or querystring differ, none of them queue
- If form post is resubmitted
 - None of them will queue them



CFInput's "submitonce" validation

- How to use it

```
<CFFORM ...>
```

Form content...

```
<CFINPUT type="submit" validate="submitonce">
```

```
</ CFFORM >
```

- When it's useful/needed

- IE needs/benefits from it

- + FF and Safari (on Windows, at least) don't need it

- They don't let a form be submitted twice, inherently



Even more interesting...

- Browsers limit # of connections to server for any file on same domain
 - Important: applies to images, js, css files as well as pages!
 - Demo:
 - <http://stevesouders.com/efws/domains1.php>
 - Details:
 - <http://www.stevesouders.com/blog/2008/03/20/roundup-on-parallel-connections/>
 - Book:
 - Even Faster Web Sites, O'Reilly 2009, Steve Souders
 - Covers still more interesting things, like how scripts and iframes can block page loading



Questions

- charlie@carehart.org
- Preso online at
 - [carehart.org/presentations/acfug lightning round.pdf](http://carehart.org/presentations/acfug%20lightning%20round.pdf)