

# PERFORMANCE PANEL

DrupalCon Szeged 2008

# FRONT END PERFORMANCE

- 80-90% of the time is spent loading components
- Absolute time vs. perceived time
- Render page as early as possible
- Small devices

# TOOLS

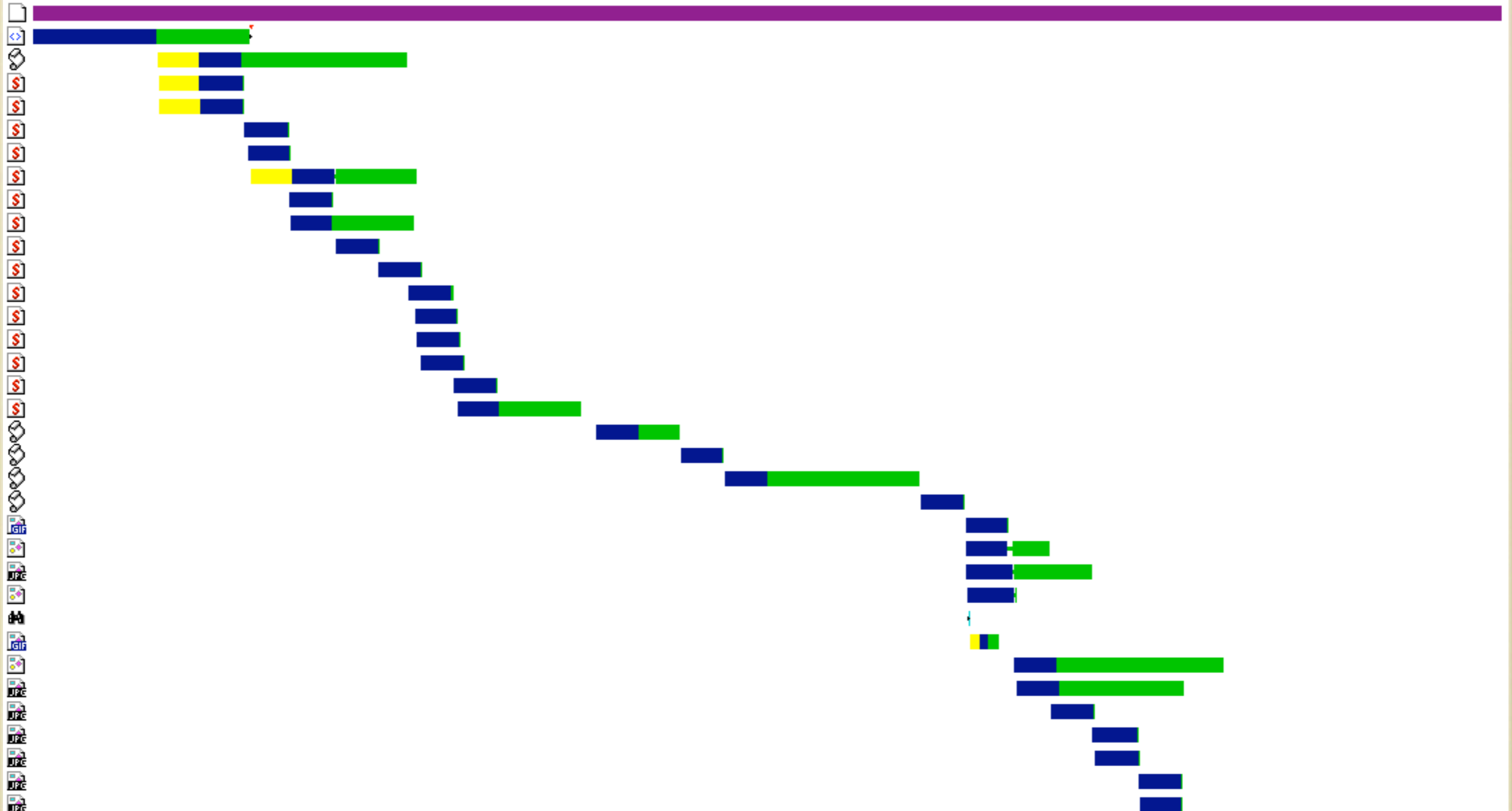
- Firebug + **YSlow**
- AOL Pagetest
- IBM Page Detailer
- <http://tools.pingdom.com>
- Webkit's Web Inspector

# WATERFALL

Drupalcon Szeged 2008 | Szeged, Hungary; August 27-30, 2008.

<http://szeged2008.drupalcon.org>

7.451126 Seconds 346038 Bytes 48 Items Wednesday August 27, 2008 03:15:27.722685 PM



# WATERFALL DIAGRAMS



- ▶ Lower all three phases

# HTTP

- HTTP 1.1: max. 2 connections per host name
- Cookies sent with *every* request
- Persistent connections

# REDUCE HTTP REQUESTS

- **Sprites**

- Many images into one file



- Shift into view with `background-position`

- **Aggregate** scripts and styles

- Built into Drupal

- No redirects

# USE A CDN

- Content Delivery Network
- Lots of servers scattered around the world
- Reduces roundtrip times (ping)
- Comparably cheap: \$0.07 - \$0.80 per GB
  - <http://www.simplecdn.com>
  - <http://pantherexpress.com/>



# CACHING

- Controlled by HTTP headers
- Browsers check whether content is fresh
- Set **Expires** header to a date in the far future
- Change filenames/URLs when updating

# MORE TASKS

- GZip text content
- Move scripts to the bottom
- Minify CSS and JS (Drupal's aggregator)
- Use two hosts for loading components
- Losslessly recompress images: *OptiPNG*, *JPEGtran*

# RESOURCES

- High Performance Websites, *Steve Souders*, 2007.
- <http://stevesouders.com/examples/rules.php>
- <http://developer.yahoo.com/performance/>
- <http://yuiblog.com/blog/category/performance>