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 diagrams

- Ping
- Dispatch request
- Data transfer

- Start
- Connect
- First byte
- Last byte

- 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

- http://yuiblog.com/blog/category/performance