





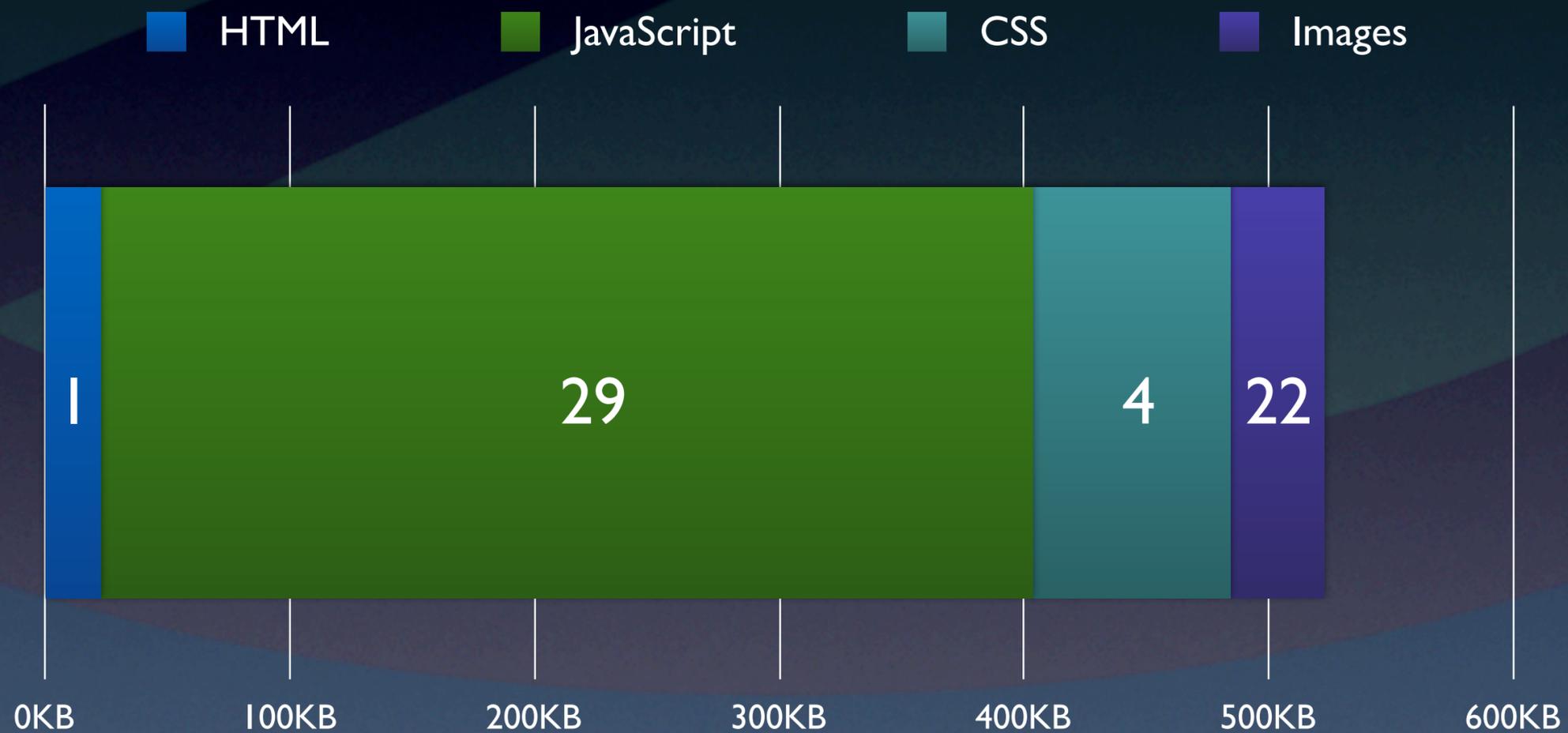




The image shows a screenshot of the English Wikipedia homepage. At the top right, there is a user profile for 'Trevor Parscal' with links for 'My talk', 'My preferences', 'My watchlist', 'My contributions', and 'Log out'. Below this is a navigation bar with 'Main Page', 'Discussion', 'Read', 'Edit', and 'View history' buttons, along with a search box. The main content area features a 'Welcome to Wikipedia' message, a grid of topic portals (Arts, History, Society, Biography, Mathematics, Technology, Geography, Science, All portals), and two featured sections: 'Today's featured article' about Jack Warner and 'In the news' with several bullet points and a small image of a cyclist. A left sidebar contains various utility links like 'Main page', 'Contents', 'Featured content', and 'Interaction'.

- This is a Wikipedia page
- It's got lots of resources that make it load slowly

# Resources



- HTML is a tiny part of the problem
- JS is where most of the gains are
- CSS is large-ish, but at least only a few requests
- Images are small, but lots of requests are costly











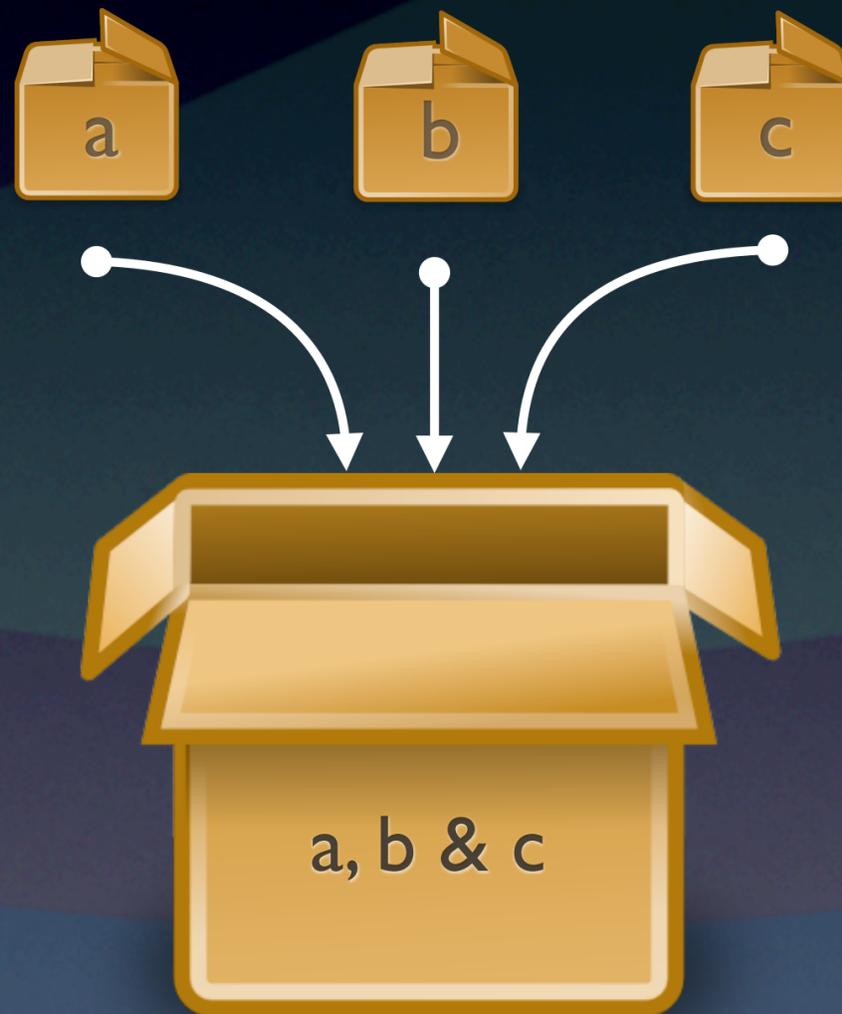








# Modules



– Any number of modules can be bundled together in a single request







# Messages



Bundling

one request



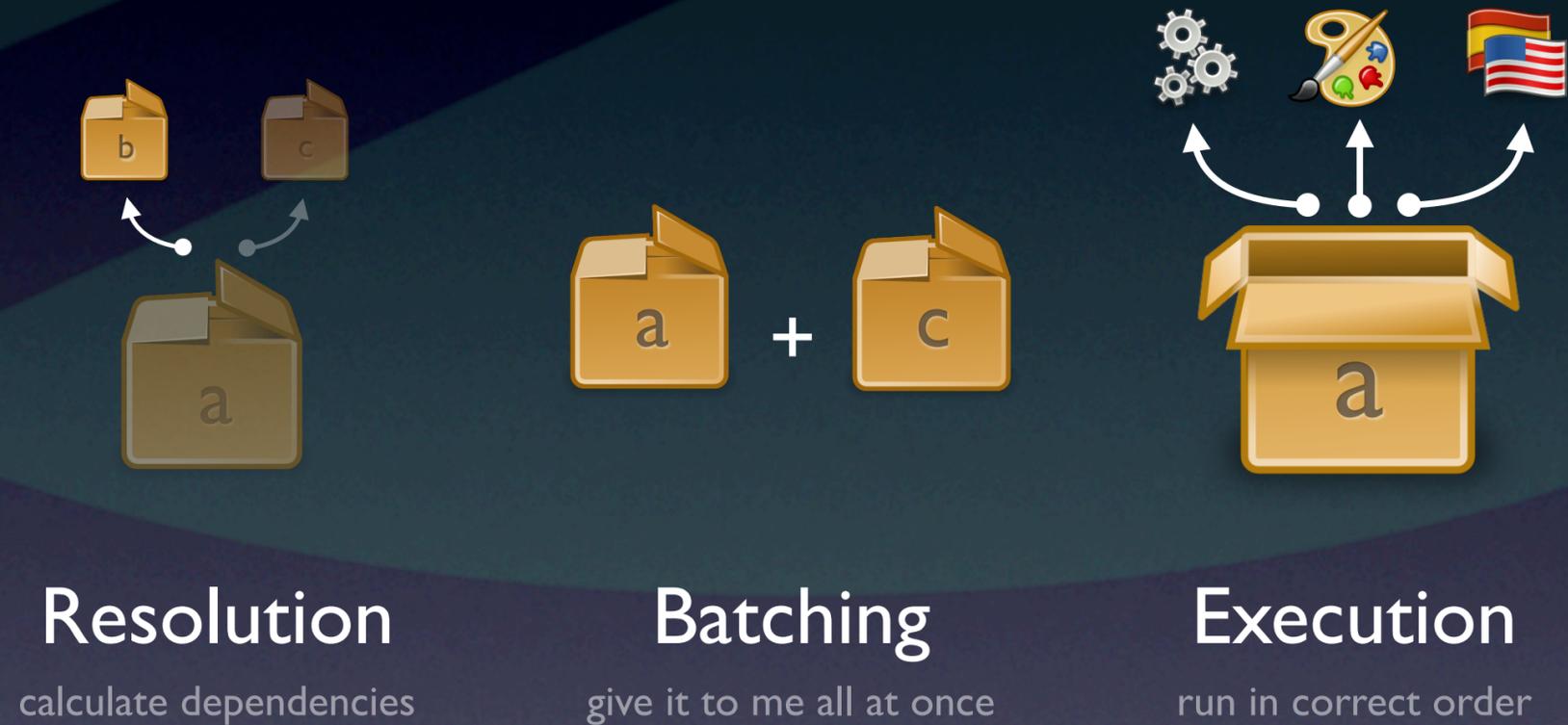
Conditions

language





# Client-side Loader



Resolution

calculate dependencies

Batching

give it to me all at once

Execution

run in correct order

- Automatic resolution, never loads something twice
- Modules are requested in batches
- Modules (scripts, styles, messages) are executed in proper order



So, it turns out...







# CSS Janus is Awesome



Ported

from python



\$humans--;

seriously, go robots!

CSSJanus: <http://tinyurl.com/CSSJanus>

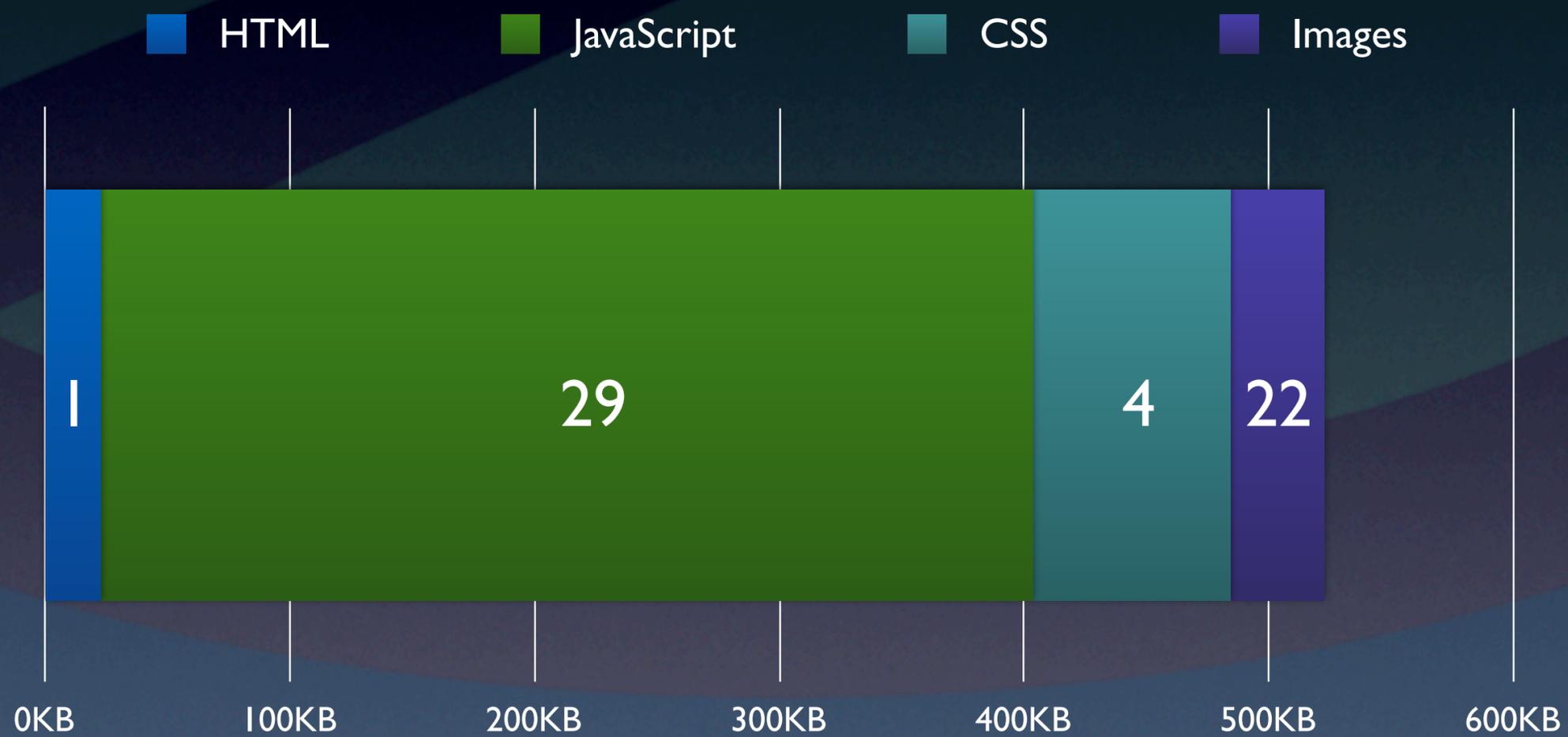
OSCON 2011

WIKIMEDIA 

- RTL for free!
- Can use @noflip when needed
- Even just blindly flipping styles, results are amazing

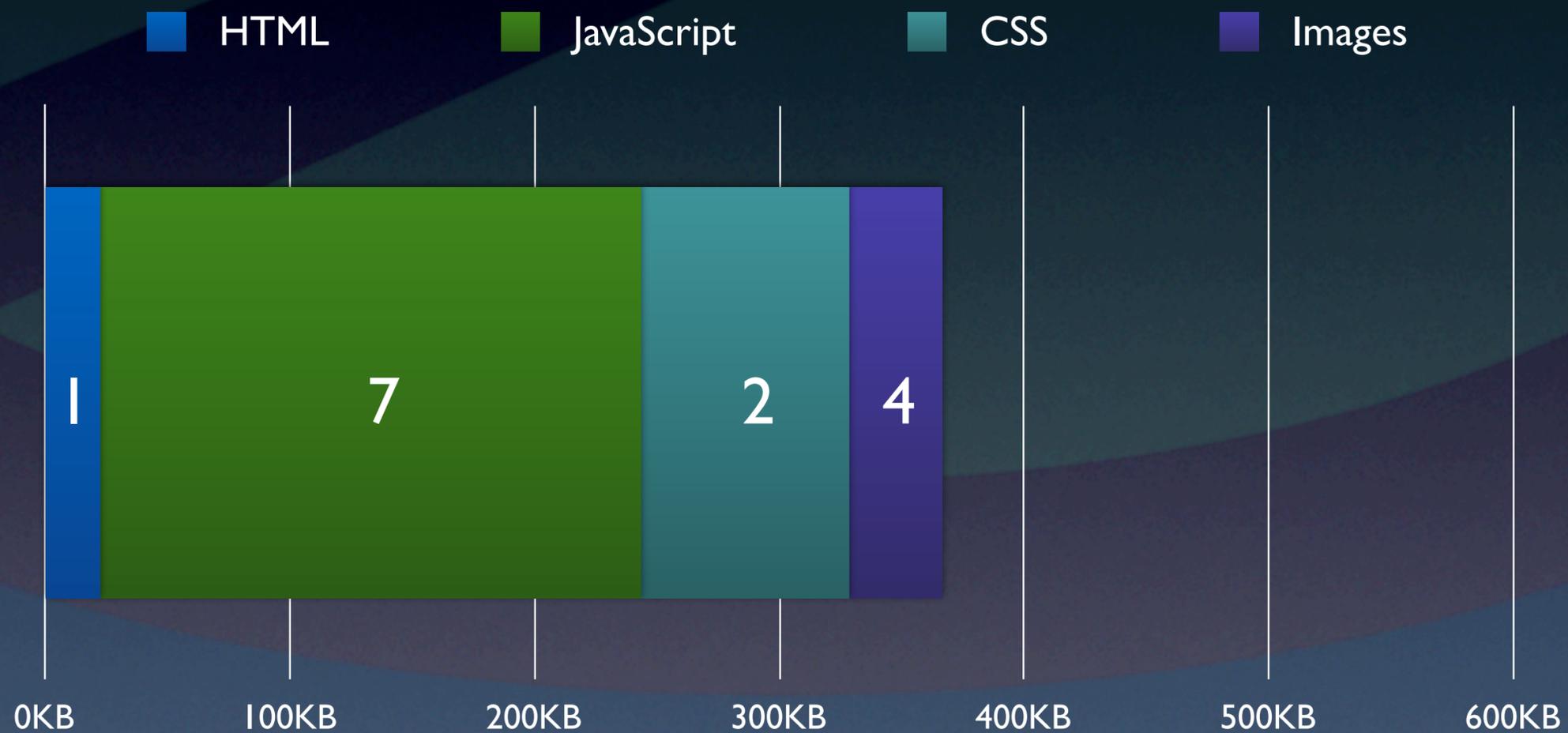


# It Works!



- You recall this chart?

# It Works!



- Dramatic reduction in number of requests
- Less total data transfer, gzip does it's thing









