Compression Dictionary Transport


pmeenan@google.com
yoavweiss@chromium.org
Overview

● Set up Dictionary (response header)
  ○ Use-As-Dictionary: match="/blah", match-dest=(“document”,”iframe”), id="bob"

● Trigger fetch of stand-alone dictionary
  ○ <link rel=dictionary href="...">

● Browser advertise available dictionary (request headers)
  ○ Available-Dictionary: :hash:
  ○ Dictionary-ID: “bob”
  ○ Accept-Encoding: br-d, zstd-d

● Use Dictionary (response headers)
  ○ Content-Dictionary: :hash:
  ○ Content-Encoding: br-d
Chrome 123

New Trial “CompressionDictionaryTransportV2”

IETF Draft 03:

WHATWG integration

HTML (Dictionary Fetch):
https://github.com/whatwg/html/issues/10162

Fetch (CORS):
https://github.com/whatwg/fetch/issues/1739
Changes

- "Content-Dictionary: <hash>" Response header
- "Dictionary hashes now sf-binary ( :base64: )"
- "ttl" removed
- "match" → URLPattern
- Added "match-dest" list
- Added "id", sent in "Dictionary-ID" request header
Open Issues

● **2637** - Split into two documents?
  ○ Split Use-As-Dictionary off?

● **2638** - Match should not allow full URLs

● **2640** - Reconcile ZSDCH
Questions

● Deployability friction moving to base64 hashes?

● Any benefit to “match” being a list?
Discuss...