HTTP Availability Hints

draft-nottingham-http-availability-hints

Vary is awful.

First try: draft-ietf-httpbis-key

- Response header carries a recipe for determining a cache key
- E.g.,

- Pro: very flexible / doesn't require cache to know headers
- Con: complicated / awkward / footgun

Second try: draft-ietf-httpbis-variants

- Response header carries information about what variants are available, and which created this request
- E.g.,

```
Variants: Accept-Language=(en jp de)
Variants: Accept-Encoding=(br gzip)
Variant-Key: (en br)
Vary: Accept-Language, Accept-Encoding
```

- Pro: Much less footgun-y / more declarative
- Con: Cache has to know about header semantics / still kinda complex, non-intuitive

Let's try again.

draft-nottingham-http-availability-hints

- Response headers describe what representations are available, facet-byfacet.
- 'd' parameter indicates a default representation.
- E.g.,

```
Vary: Accept-Encoding, Accept-Language, ECT
Avail-Encoding: gzip, br
Avail-Language: fr, en;d
Avail-ECT: (slow-2g 2g 3g), (4g);d
```

- Pro: Intuitive / declarative / other use cases for this information
- Con: Does not contain information regarding relative preferences between facets

Adopt?