Variants

Secondary Cache Keys

- Caching for "proactive" content negotiation
- E.g., Content-coding, content-language, format
- Also: Client Hints
- Sometimes abused into User-Agent, Cookie

Vary (RFC7234)

- Granularity is request-header-as-string
- Cache can canonicalise (but algorithm isn't specified)
- Correct implementation is expensive
- Shortcuts are commonly taken
- Interop isn't great
- Functionality is limited

Key (draft-httpbis-key)

- Recipe for secondary cache key in a response header
 - Key: user-agent;substr=MSIE;Substr="mobile", Cookie;param="ID"
- V Much finer-grained, more flexible, deterministic
- 🔽 Usable on any request header
- X Complex to author
- X Not able to describe all relationships

Variants (draft-nottingham-variants)

- List all variant values available for a given negotiation axis Variants: Accept-Encoding;gzip;br, Accept-Language;en;fr
- Identify the values that were used to select this response Variant-Key: gzip, fr
- Algorithm specified for every axis of negotiation
- Works well for known axes of negotiation
- Not suitable for request headers with opaque semantics
- Simple, intuitive to author