

CoRE: CRI (HREF)

Concise Resource Identifier:

Concise equivalent of URIs and URI references (RFC 3986)

New [representation format](#) for **URI data model**

[draft-ietf-core-href](#) defines **CRIs** and CRI references

recent updates

(-10: 2022-03-07 for 2022-03-25 IETF113 meeting)

— Most work since was on test vectors/implementation

PRs:

— Added a lamentation about percent-encoded text

— Added `./` for relative URI if first segment contains `:`

Bug: foo:

Is foo:

1. a foo:/bar/baz with 0 segments: ["foo", null]
2. a foo:opaquestuff with 0-length opaque: ["foo", true]

This presenter leaning to 1.

Is there an in-the-wild example of such a URI scheme?

CoRE

and CRI

Opportunity: CURIEs

CURIE: Compact URIs — weird lexical compression of URIs

- Problem: CURIE semantics are based on URI **syntax**

Does not map to structural nature of CRIs

CBOR-packed now has **function tags**

Could define function tag for CURIE-like assembly of CRIs

Agreement from 2022-06-08 CoRE interim:

Do this in a separate specification

- Could be part of CoRAL, or independent

weird CURIE cases

~~'ht'~~ + ~~'tp://coap.me/foo/~~
~~bar'~~

~~'http://coa'~~ + ~~'p.me/foo/bar'~~

'http://coap.me' + '/foo/bar'

'http://coap.me/' + 'foo/
bar'

'http://coap.me/foo' +
'#bar'

'http://coap.me/foo#' +
'bar'

Is it always possible to
express CRI-like:

— left hand side

— right hand side

without knowing the
other?

is there a better CURIE?

CURIE solves a widely appreciated problem

Solution is **lexical** (~ URI)

- lexical solutions always cause problems

Can there be a solution that is **structural** (~ CRI)?

- Can this be backported (made understood) to URI space?

Can structural solution be our subset of lexical CURIEs?

Plan

- Complete the test vector implementation work
- Decide `foo:` → `["foo"]`
- **WGLC** CRI
- Start document on CRI CURIE function tag