CoRAL

The Constrained RESTful Application Language

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CoRAL

A language for the description of typed connections between resources on the Web ("links") and possible operations on such resources ("forms") as well as simple resource metadata for automated software agents.

* Data and interaction model

* Compact, binary format
  -- suitable for constrained environments

* Lightweight, textual format
  -- easy to read and write by humans
<!-- HTML5 -->
<link rel="stylesheet" href="/style.css">
<link rel="icon" href="/favicon.png">
<link rel="license" href="/license">

// CoRAL
stylesheet </style.css>
icon  </favicon.png>
license  </license>

link relation type  link target (IRI)
// representation of <coap://robbie.robot/>

id: 354675
name: "Robbie the robot"
likes: <coap://susie.robot/>
likes: <coap://nikki.robot/> {
  likes: <coap://chris.robot/>
}

link target (literal)

link from nikki to chris
// representation of <coap://susie.robot/>

id 827446
name "Susie"

power-led </leds/power1>
power-led </leds/power2>
status-led </leds/status>
headlight </leds/head> {
    update -> PUT <> [accept "example/boolean"]
}

form relation type method submission IRI
// representation of <coap://susie.robot/tasks>

item </tasks/1> { 
    description "Pick up the kids"
}
item </tasks/2> { 
    description "Return books to the library"
}
create -> POST <> [accept "example/task+coral"]
// representation of <coap://susie.robot/tasks/3>

description "Take out the trash"
collection </tasks>
update -> PUT </tasks/3>
delete -> DELETE </tasks/3>
upcoming specification