

Link-Template Header /
Problem Details /
JSON Home

Mark Nottingham

Link-Template Header

- Link Header
+ URI Templates
= Link-Template
- Was in early draft of RFC5988, but pulled out because templates were still a baby.
- Some people have been asking for it, so here we are.

```
Link-Template: </widgets/{widget_id}>;  
                rel="http://example.org/rel/widget";  
                var-base="/vars/"
```

draft-nottingham-link-template-00

Problem Details

- Lots of HTTP APIs define “Faults”, “error formats” etc.
- Many abuse HTTP, XML and JSON simultaneously
- If we have to do this, maybe it should be done in a way that mitigates damage
- Much of the draft is stating how not to use it
- Work in Progress, may die at any time
- XML? HTML?

HTTP/1.1 403 Forbidden

Content-Type: application/json-problem

Content-Language: en

```
{
  "describedby": "http://example.com/probs/out-of-credit",
  "title": "You do not have enough credits.",
  "detail": "Your current balance is 30, but that costs 50.",
  "balance": 30,
  "account": "http://api.example.com/account/12345"
}
```

draft-nottingham-http-problem-00

JSON Home

- Links Help APIs
- Solution? “Home” document
 - Typed links (using RFC5988) to resources
 - LIVING document

```
HTTP/1.1 200 OK
Content-Type: application/json-home
Cache-Control: max-age=3600
Connection: close
```

```
{
  "resources": {
    "http://example.org/rel/widgets": {
      "href": "/widgets/"
    },
    "http://example.org/rel/widget": {
      "href-template": "/widgets/{widget_id}",
      "href-vars": {
        "widget_id": "http://example.org/param/widget"
      },
      "hints": {
        "allow": ["GET", "PUT", "DELETE", "PATCH"],
        "representations": ["application/json"],
        "accept-patch": ["application/json-patch"],
        "accept-post": ["application/xml"],
        "accept-ranges": ["bytes"]
      }
    }
  }
}
```

draft-nottingham-json-home-01

URI Templates (RFC6570)

- Common test suite
 - <http://j.mp/uri-tpl-test>
- Implementations
 - 9 claiming RFC level 4 (8 languages)
 - <http://j.mp/uri-tpl-code>