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/"
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"
}
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