Visualizing Document Progress
Using Mermaid Diagrams

Darrel Miller
IETF 117
Goals

• Provide simple visual for IETF newcomers to understand how a document flows through working group states
• Shows current state of a document and progress through states
Current tools

• Timeline

• WG States
Examples

Problem Details for HTTP APIs - repository

Linkset: Media Types and a Link Relation Type for Link Sets - repository

https://ietf-wg-httpapi.github.io/
```
```
```mermaid
graph LR
    classDef current fill:orange
    classDef lastIETF fill:pink

    WG-Adopt --draft-02--> WGLC
    WGLC --> AD-Review((AD-Review))
    class AD-Review current
    class WG-Adopt lastIETF
    AD-Review --> IETF-LC
    IETF-LC --> IESG-Review
    IESG-Review --> RFC-Editor
    RFC-Editor --> RFC

Link-Template HTTP Header Field - repository
```
What if we could generate these diagrams automatically from the DataTracker API?

What if DataTracker could render mermaid diagrams contained in markdown documents?

Very early experimentation: https://github.com/darrelmiller/datatrackerapi
Get information about a document


{ "abstract": "This document defines a "problem detail" to carry machine-readable details of errors in HTTP response content to avoid the need to define new error response formats for HTTP APIs. This document obsoletes RFC 7807. Discussion Venues

This note is to be removed before publishing as an RFC. Source for this draft and an issue tracker can be found at

https://github.com/ietf-wg-httpapi/rfc7807bis",
"ad": "/api/v1/person/person/106842/",
"expires": "2023-10-31T00:39:11Z",
"external_url": "",
"group": "/api/v1/group/group/2283/",
"id": 102057,
"intended_std_level": "/api/v1/name/intendedstdlevelname/ps/",
"name": "draft-ietf-httpapi-rfc7807bis",
"pages": 19,
...
Get its history

```

{
  "meta": {...},
  "objects": [
    {
      "name": "draft-ietf-httpapi-rfc7807bis",
      "resource_uri": "/api/v1/doc/dochistory/336857/",
      "rev": "07",
      "states": [
        "/api/v1/doc/state/1/",
        "/api/v1/doc/state/108/",
        "/api/v1/doc/state/154/",
        "/api/v1/doc/state/112/",
        "/api/v1/doc/state/17/",
        "/api/v1/doc/state/25/",
        "/api/v1/doc/state/44/"
      ]
    }
  ]
}
```