



Uptime is the Bottom Line.

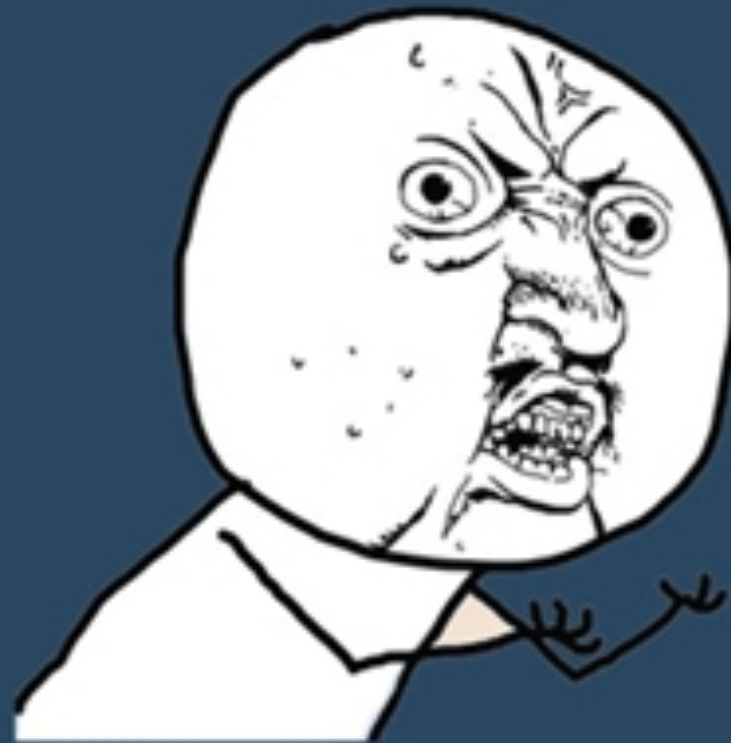
WEIRDS - Work on a WHOIS 2.0

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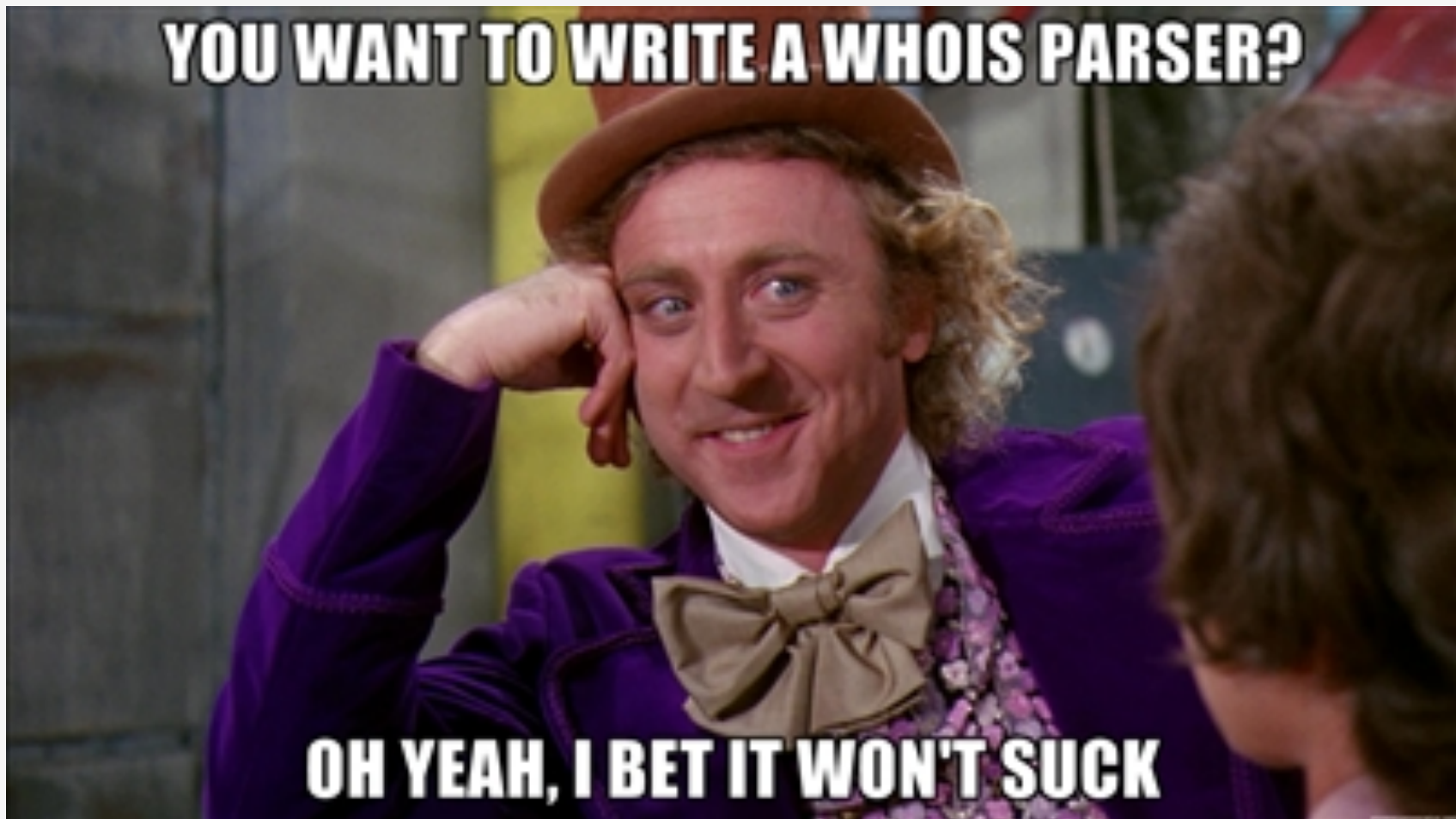
Y U NO



USE MODERN PROTOCOLS?

WHOIS is just plain old!

- WHOIS was defined in RFC812 / 1982
 - Contact information about networks
 - Uses US-ASCII text, no data format at all
 - No internationalization
 - Designed with the human consumer in mind
- Rolled forward in 1990 into the basis of domain name registration contact information



Seriously. It's something like:
WHOIS: 37 to Interns: -6

WHOIS-based Extensible Internet Registration Data Service (WEIRDS)

- WEIRDS is an IETF WG proposing a protocol replacement to WHOIS
- Based upon capabilities of 2012: HTTP, REST, JSON, XML, Authentication, etc.
- Motivated by ICANN SSAC SAC 051 and the WHOIS Policy Review Team
- The RIRs are already doing this with IP and ASN resources

IETF Involvement

- There's an IETF WG on WEIRDS:
 - <http://tools.ietf.org/wg/weirds/>.
 - The list is weirds@ietf.org.
 - Chairs are Olaf Kolkman and Murray Kucherawy.
- We could use help standardizing, ideally from sane people who know something about operations & have a need of the data.

WEIRDS Benefits for Domains

- Strong management of the Registry, Registrar, Registrant model – handles referrals gracefully
- A strongly defined common data model with data labels
- Internationalization of domain and registrant information
- Class of service differentiation to various types of users of the interface (anonymous vs. registered user)

Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:50...omain/jumbotet.org

localhost:5000/domain/jumbotet.org DynDNS Smart Search

```
{
  "status": [
    "clientDeleteProhibited",
    "clientTransferProhibited",
    "clientUpdateProhibited"
  ],
  "name": "jumbotet.org",
  "contacts": {
    "admin": "DYNDNS224137",
    "tech": "DYNDNS224137",
    "registrant": "DYNDNS224137",
    "billing": "DYNDNS224137",
    "dyn-user": "DYNUSER-0000XXXXX"
  },
  "crDate": "2011-08-02T22:43:42.0Z",
  "upDate": "2011-08-02T22:43:42.0Z",
  "exDate": "2014-08-02T22:43:42.0Z",
  "ns": [
    "ns2.parkeddns.com",
    "ns1.parkeddns.com"
  ],
  "uris": [
    {
      "ref": "contacts/dyn-user",
      "uri": "http://weirds.dyn.com/contact/DYNUSER-0000XXXXX"
    },
    {
      "ref": "contacts/registrant",
      "uri": "http://weirds.dyn.com/contact/DYNDNS224137"
    },
    {
      "ref": "contacts/admin",
      "uri": "http://weirds.dyn.com/contact/DYNDNS224137"
    },
    {
      "ref": "contacts/billing",
      "uri": "http://weirds.dyn.com/contact/DYNDNS224137"
    },
    {
      "ref": "contacts/tech",
      "uri": "http://weirds.dyn.com/contact/DYNDNS224137"
    }
  ]
}
```



```
{
  "status": {
    "active": false
  },
  "uris": [
    {
      "ref": "contacts/dyn-user",
      "uri": "http://weirds.dyn.com/contact/DYNUSE-0000XXXXX"
    }
  ],
  "type": "DynDNS Hostname",
  "name": "ds.servegame.org",
  "contacts": {
    "dyn-user": "DYNUSE-0000XXXXX"
  }
}
```

DYN's Interest in WEIRDS

- Customer Capabilities:
 - Internationalization to Registrants
- Anti-Abuse Techniques:
 - Parsable messaging for data collection / research
 - Speeds abuse desk response times
- Privacy:
 - Full contact information is not always needed

Next Steps @ Dyn

- Early development of WEIRDS server:
 - To be posted to GitHub:
<http://github.com/dyninc/>.
- Eventual experimental implementation at <http://whois.dyndns.com>.
 - Free Dynamic DNS Domains
 - Registered Domain Names



Questions?