API Testing Heuristics for Developers

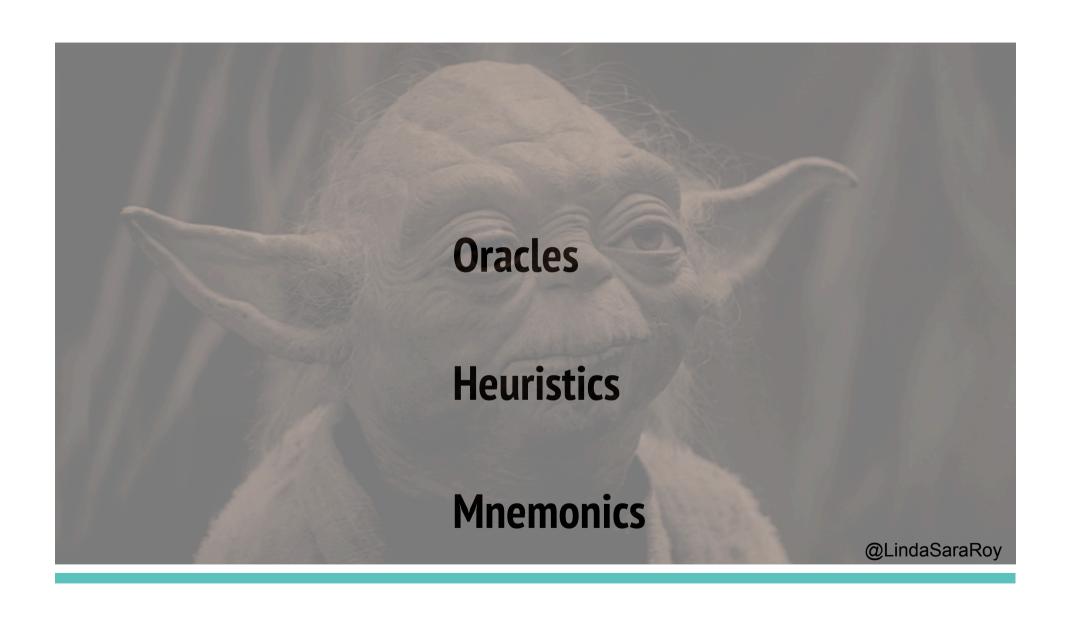
Linda Roy @LindaSaraRoy

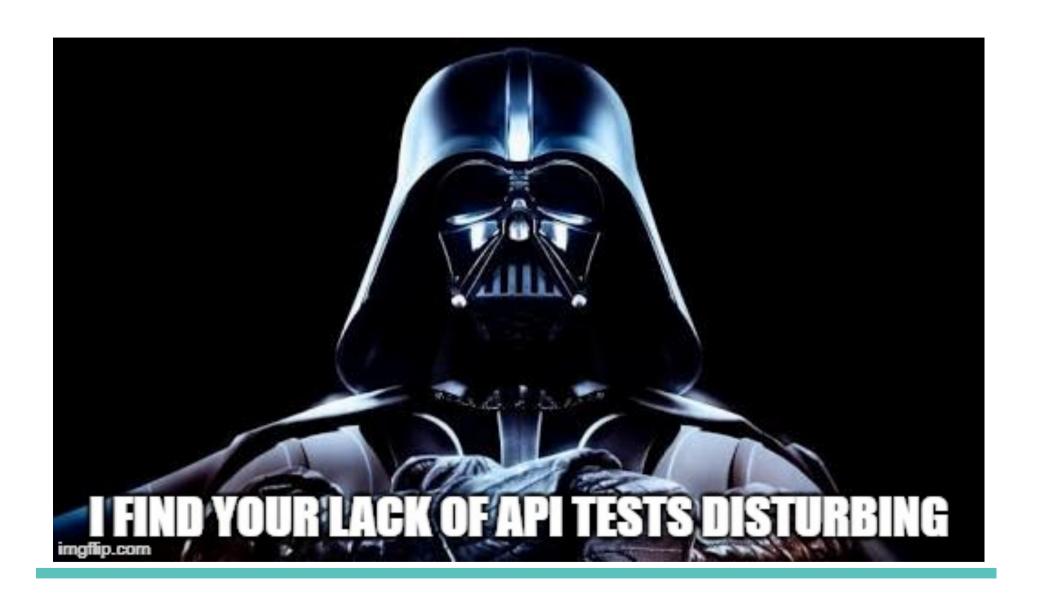
Agenda

- WHY I introduced API testing heuristics
- WHAT were the API heuristics
- Takeaways



@LindaSaraRo





API Testing Heuristics

VADER: Verbs

Authorisation/Authentication

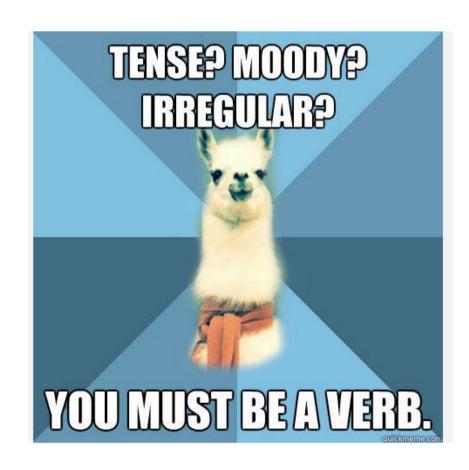
Data

Errors

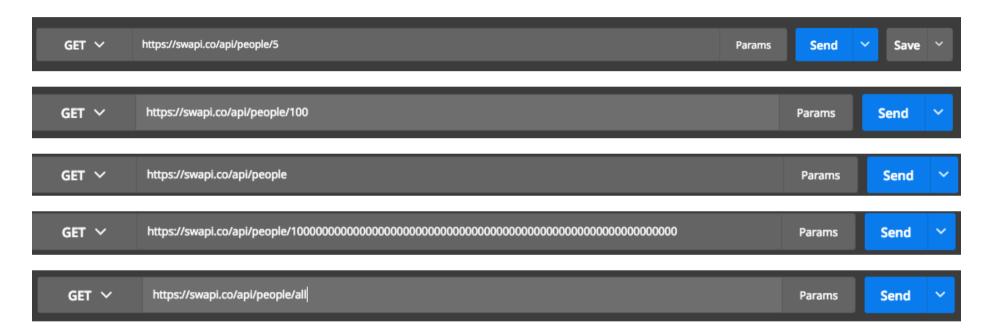
Responsiveness

Verbs

A D E R



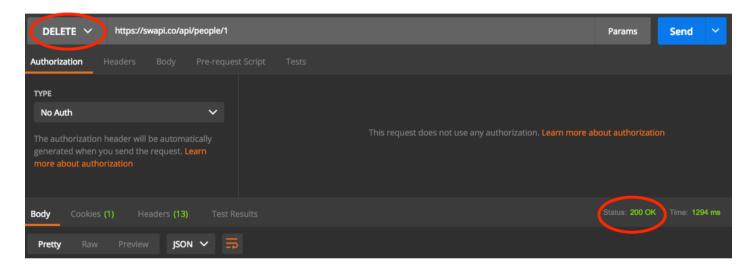
GET



POST

```
POST ∨
                 https://swapi.co/api/people/100
                                                                                                                        Params
                                                                                                                                     Send
                          Body • Pre-request Script
● form-data ● x-www-form-urlencoded ● raw ● binary Text ∨
  1 {
          "name": "API Tester",
          "height": "unknown", "mass": "unknown",
          "hair_color": "unknown",
          "skin_color": "unknown",
          "eye_color": "unknown",
          "birth_year": "unknown",
          "gender": "female",
          "homeworld": "https://swapi.co/api/planets/28/",
          "films": [
               "https://swapi.co/api/films/7/"
          "species": [],
          "vehicles": [],
          "starships": □,
          "created": "2015-10-13T10:35:39.229823Z",
          "edited": "2015-10-13T10:35:39.229894Z",
          "url": "https://swapi.co/api/people/88/"
  20 }
                                                                                                                  Status: 404 NOT FOUND Time: 8
Body
```

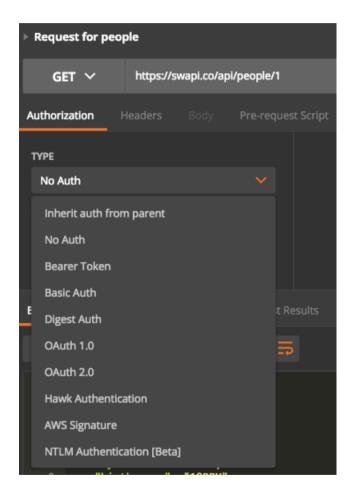
DELETE

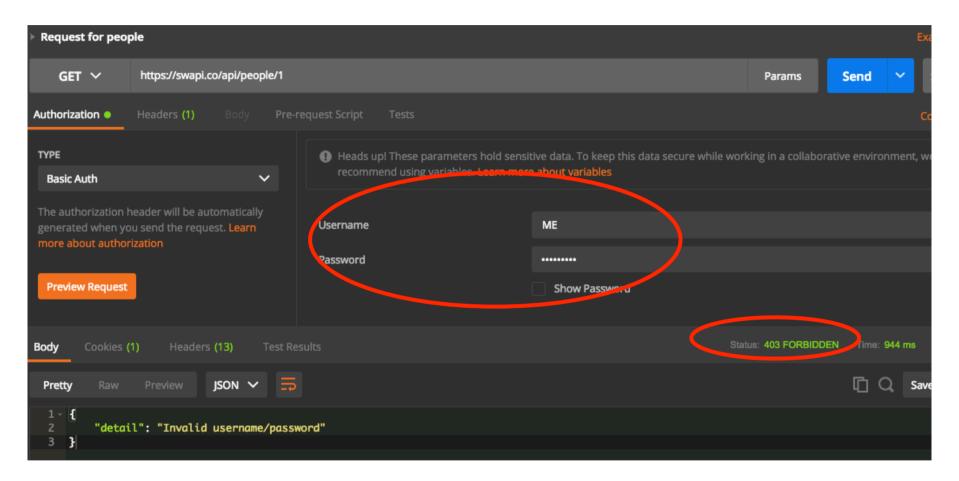




Authorisation D E







V A Data E R



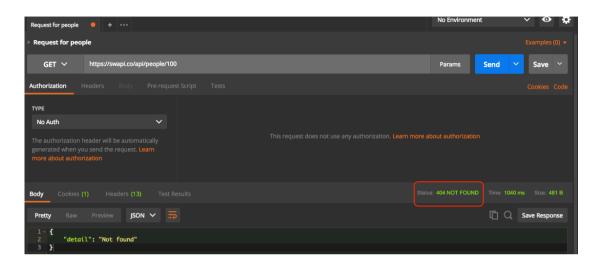
```
GET \ https://swapi.co/api/people/?page=1
                                                                                                                                             Params
                                                                                                                                                             Send
                                                                                                                                                              □ Q s
Pretty
                                JSON 🗸
           "count": 67,
"next": "https://swapi.co/api/people/?page=2",
            "previous": null,
"results": [
                      "name": "Luke Skywalker",
                      "height": "172",
                      "mass": "77",
"hair_color": "blond",
                      "skin_color": "fair",
                      "eye_color": "blue",
                      "birth_year": "19BBY",
                      "gender": "male",
                      "homeworld": "https://swapi.co/api/planets/1/",
                      "films": [
                           "https://swapi.co/api/films/2/",
                          "https://swapi.co/api/films/2",
"https://swapi.co/api/films/3/",
"https://swapi.co/api/films/1",
"https://swapi.co/api/films/7/"
                    ],
"species": [
                           "https://swapi.co/api/species/1/"
                      "vehicles": [
                           "https://swapi.co/api/vehicles/14/",
                           "https://swapi.co/api/vehicles/30/"
                     ],
"starships": [
                           "https://swapi.co/api/starships/12/",
                           "https://swapi.co/api/starships/22/"
                     ],
"created": "2014-12-09T13:50:51.644000Z",
"edited": "2014-12-20T21:17:56.891000Z",
                      "url": "https://swapi.co/api/people/1/"
```

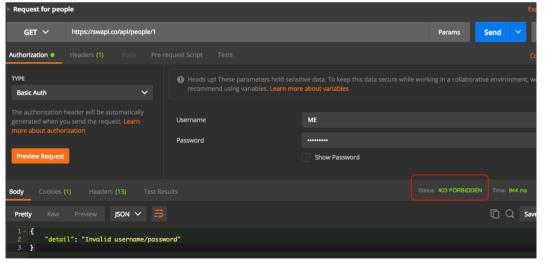
V A D Errors R









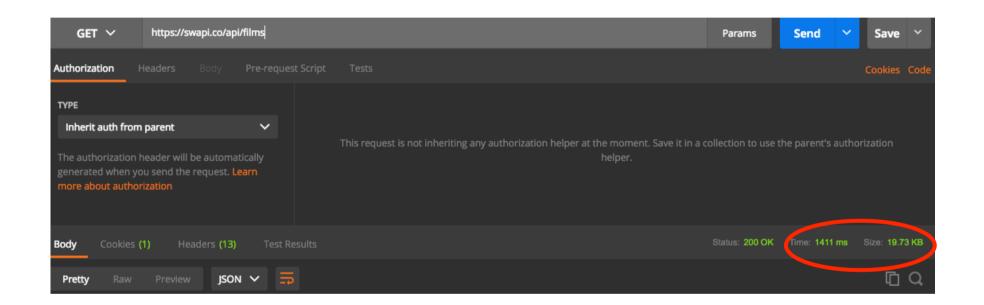


@LindaSaraRo

V

V A D E Responsiveness





Did It Work?

- Teammates understood quality is team's responsibility
- Mnemonics are a fun way to trigger test ideas
- Making it visible to everyone at all times

Takeaways

- Good to get devs to test
- Mnemonics are good coaching tools
- Don't forget API testing has heuristics
- Don't go to the dark side!

Thank you!

For more heuristics:

- API and Microservices testing learning pathway Katrina The Tester
- ICE OVER MAD
- API testing playgrounds
 - o Build.Kiva

