



Esri International Developer Summit
Palm Springs, CA

ArcGIS and Ruby – Making Web Development Fun and Easy

Kenichi Nakamura

Ruby

“A programmer’s best friend”





Poeks

@poeks



Following

Good news: in JavaScript you can't shoot your foot off! Bad news: there are no feet in JavaScript.

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Rails

“Convention over Configuration” - 2004



Sinatra

“web application library and domain-specific language”

Some notable companies and institutions that use Sinatra include Apple, BBC, the British Government, LinkedIn, the NSA, Engine Yard, Heroku, GitHub, Songbird, and...



Understanding our world.



Esri Geotrigger Service and Sinatra

- Rapid development of a Real-Time platform
- DB interaction via Sequel (<http://sequel.jeremyevans.net>)
- HTTP JSON requests/responses
- Speaking of...

JSONatra

“A JSON API extension for Sinatra”



JSONatra – <http://github.com/esripdx/jsonatra> (also a gem!)

- always respond with JSON, route blocks' return hashes are automatically converted
- all GET routes also respond to POST for large query values (require 'jsonatra/break_rest')
- accept form encoded OR JSON POST body parameters
- always supply CORS headers
- short-circuit OPTIONS requests
- *application* errors (i.e. param validation) should still 200, respond with error object
- 404s still 404 with a JSON body
- have handy error helpers

Geotrigger Rubygem

“A small ruby client for the Esri
Geotrigger Service”



Geotrigger RubyGem - <http://github.com/Esri/geotrigger-ruby>

```
# specify client_id and client_secret
#
session = Geotrigger::Session.new client_id: 'abcde', client_secret: '12345'
#=> <Geotrigger::Session ... >
```

```
session.post 'device/update', deviceIds: ['abcd1234'], addTags: ['foo']
#=> { "devices" => [ { "deviceId" => "abcd1234", tags: ["foo", "device:abcd1234", ...] } ] }
```

Demo Time!

<https://github.com/kenichi/devsummit>



Linkage!

- Ruby <https://www.ruby-lang.org/>
- Sinatra <http://www.sinatrarb.com>
- JSONatra <https://github.com/esripdx/jsonatra>
- Geotrigger Rubygem <https://github.com/Esri/geotrigger-ruby>
- Angelo <https://github.com/kenichi/angelo>

- Geotrigger Service <https://developers.arcgis.com/geotrigger-service/>
- Esri-leaflet <https://github.com/Esri/esri-leaflet>



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