A Practical Guide to Hypermedia APIs

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I just saw a diff where someone converted their app + client (same repo) to a hypermedia api: +900, -5000 LOC



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That was this project

Prepare yourself

But first

Hypermedia Basics

Resources != Models

HTTP is your friend

GET, POST, PUT, DELETE

Client knows only one URL

"/"

Media types

HAL+JSON

Sample HAL Response

```
"status": "Processing",
"_embedded": {
 "items": [
    "name": "Book",
    "_links":{ "self": { "href" => "http://example.com/items/1" } }
"_links": {
 "self" => { "href" => "http://example.com/orders/1" }
```

Server

Serializers

- Disable root
- Embedded resources
- Links
- Changing serializer representations

Controllers

Use respond_with and respond_to

Models

 Doesn't have to be a subclass of ActiveRecord::Base

Client

Resources

- Data only
- Convenience methods

Loaders

- Pull data down from the API
- Only GETs

Services

- Very similar to Loaders
- Push data back up

Resources

- Creating a Hypermedia Client
 - http://blog.oestrich.org/2012/12/creating-ahypermedia-client/
- ActiveModel::Serializers
 - https://github.com/rails-api/active model serializers
- Abusing ActiveModel::Serializers for HAL
 - http://blog.oestrich.org/2012/10/abusing-activemodel-serializers-for-hal/