BACKBONE & THE WP REST API



Backbone + WP REST API = HAPPY

Why Backbone?

Models • Collections • Views Routes & Events

Philosophically, Backbone is an attempt to discover the minimal set of data-structuring (models and collections) and user interface (views and URLs) primitives that are generally useful when building web applications with JavaScript.

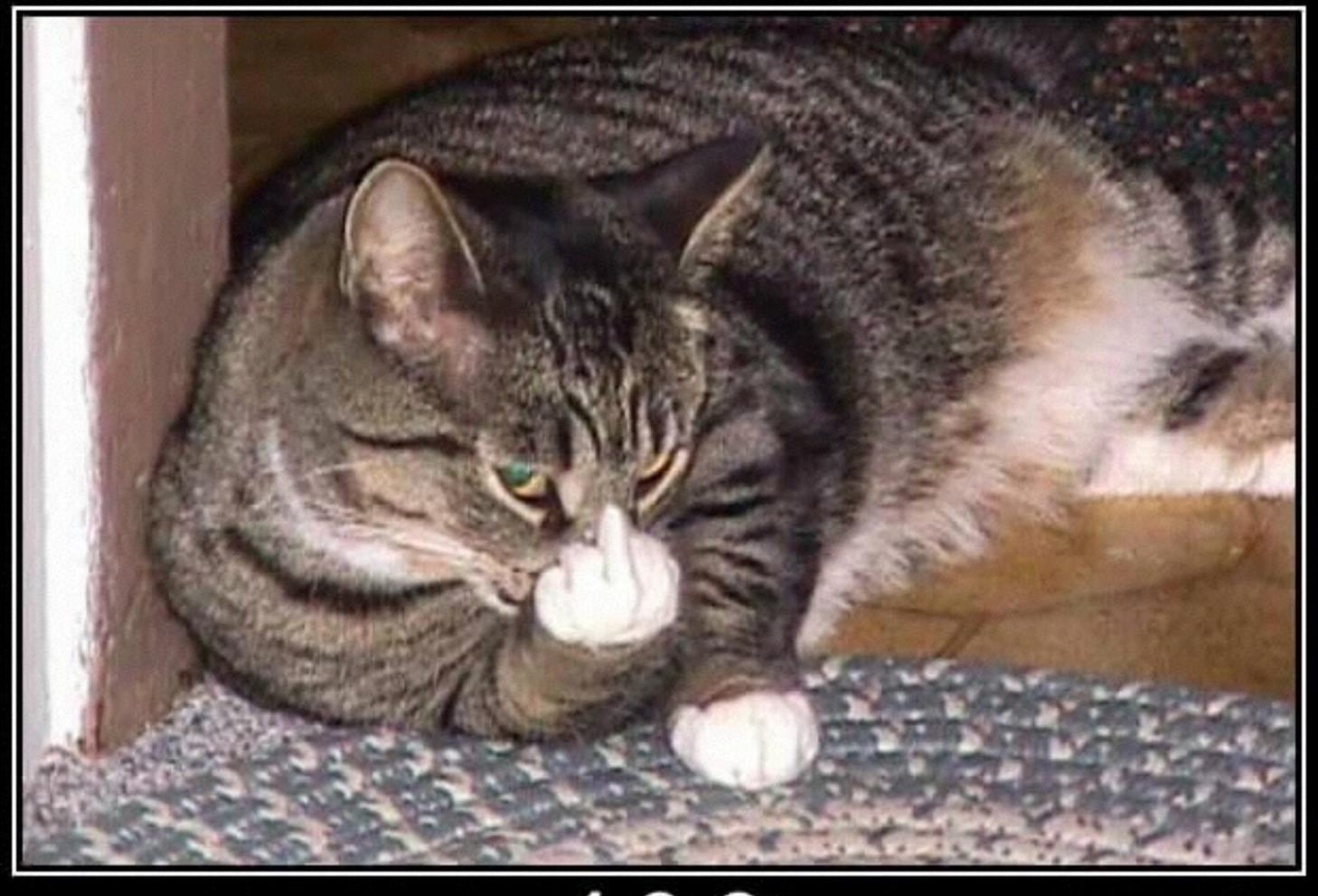
Models

Collections

Views

ALSO: Routes, Events

Related Links	•
Add New	
Title:	
Url:	
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Test	
Another item	



400 Bad Request

What is the WP REST API?

demo.wp-api.org







QUERY			

BODY

WordPress

REST

API







Backbone + WP REST API = HAPPY Backbone + WP REST API + JS CLIENT = LOVE

The (Backbone) JavaScript Client

How to use

```
wp_enqueue_script( 'wp-api' );
wp_enqueue_script( 'my_script', 'path/to/my/script', array( 'wp-api' ) );
```

What it does

Some examples...

```
// Load an existing post.
var post = new wp.api.models.Post( { id: 1 } );
post.fetch();
```

```
// Create a new post.
var post = new wp.api.models.Post( { title: 'This is a test post' } );
post.save();
```

```
// Post helpers.
post.getAuthorUser().done( function( user ) { ... }
post.getFeaturedImage().done( function( image ) { ... }

post.setCategories( [ 'apples', 'oranges' ] );
```

```
> var post = new wp.api.models.Post( { id:1 } );
```

```
// Collections.
var postsCollection = new wp.api.collections.Posts();
postsCollection.fetch();
```



```
// More query options.
postsCollection.fetch( {
   data: { 'filter':
            'orderby': 'title',
            'order': 'ASC'
// Pagination.
postsCollection.hasMore();
postsCollection.more();
```

It's that easy

Challenges

Adding custom data

```
* Filter the allowed 'private' query vars for authorized users.
 * If the user has the `edit posts` capability, we also allow use of
* private query parameters, which are only undesirable on the
 * frontend, but are safe for use in query strings.
 * To disable anyway, use
 * `add filter( 'rest private query vars', ' return empty array' );`
 * @param array $private query vars Array of allowed query vars for authorized users.
$private = apply_filters( 'rest_private_query_vars', $wp->private_query_vars );
```

```
-/**
- * Filter the publicly allowed query vars.
     * Allows adjusting of the default query vars that are made public.
     *
- * @param array Array of allowed WP_Query query vars.
     - */
- $valid_vars = apply_filters( 'query_vars', $wp->public_query_vars );
```

```
* Filter the query arguments for a request.
* Enables adding extra arguments or setting defaults for a post
* collection request.
* @see https://developer.wordpress.org/reference/classes/wp user query/
                         $args Key value array of query var to query value.
* @param array
* @param WP REST Request $request The request used.
$args = apply_filters( "rest_{$this->post_type}_query", $args, $request );
```

React? Redux?

Progressive Rendering or Application Shell Architecture

application shell content ■ App Shell ■ App Shell Cats are the best App shell When my cats look out the window at another cat I like to pretend they're Index judging and disparaging it with little British accents.

Cached shell loads instantly on repeat visits.

Dynamic content then populates the view



LINKS

http://backbonejs.org
https://github.com/WP-API/WP-API
https://github.com/WP-API/client-js
http://v2.wp-api.org/extending/javascript-client
https://github.com/redbooth/backbone-redux

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- Serial Core Contributor & release co-lead
- Lead developer of the Rest API Backbone JavaScript Client

