

WordPress & the REST API



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Discount in the Museum Store
Receive a 20% discount on your entire Museum Store purchase.

CLAIM FOR
500 Points



Discount in the DMA Cafe
Receive a 20% discount on your entire DMA Cafe purchase. Excludes alcohol.

CLAIM FOR
500 Points



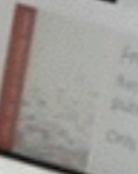
Free Parking
Level 1, 2, or 3—how about parking for FREE?

1,000 Points



One Free Ticket to a DMA Lecture or Film
Receive one free admission to a ticketed DMA lecture or film.

2,000 Points



Free Catalogue
Receive a free copy of the DMA's annual publication, Dallas Museum of Art 100 Years.
Only 483 left

2,500 Points

	2012	2013
CMS	68%	69%
Blog/CMS	25%	20%
Blog	7%	6%
App Platform	-	7%

What do you use WordPress for?

Why?

- ◉ allows you to integrate data + features from WordPress into any application
- ◉ build static sites/apps that just pull data in via ajax
- ◉ use WordPress as your data storage
- ◉ use the json format to transmit data to and from your site
- ◉ works with any language/platform as long as it can make HTTP requests

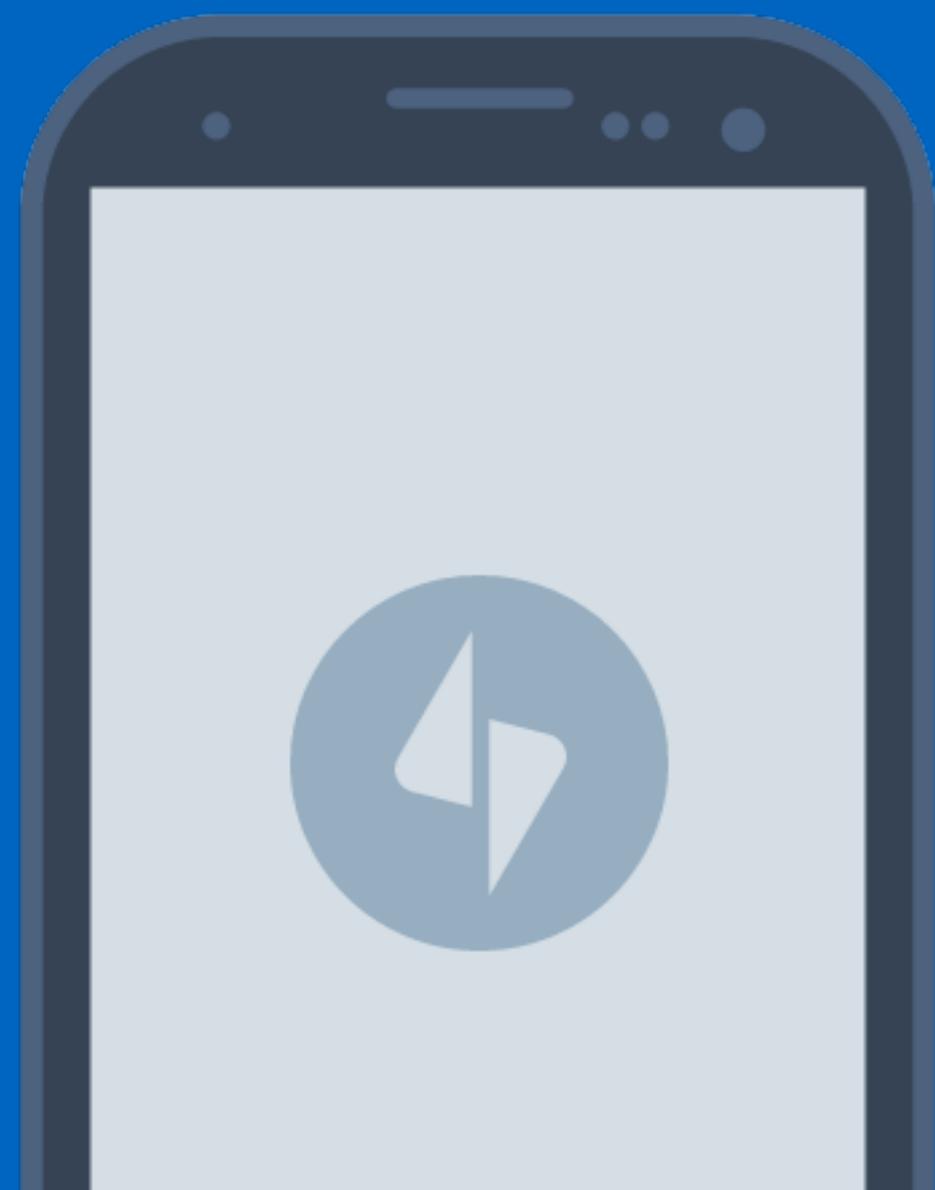
Two Major Options

 WordPress.com /  **JETPACK**

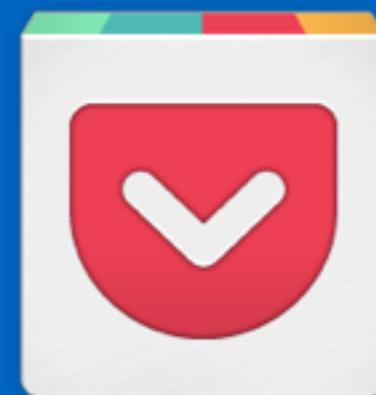
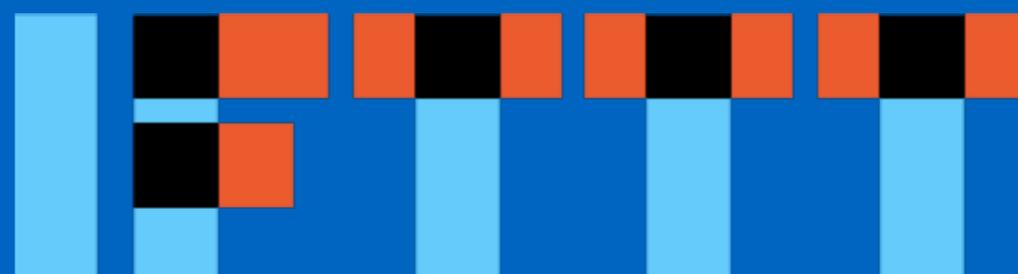
or

WP-API

Who?



 WordPress.com



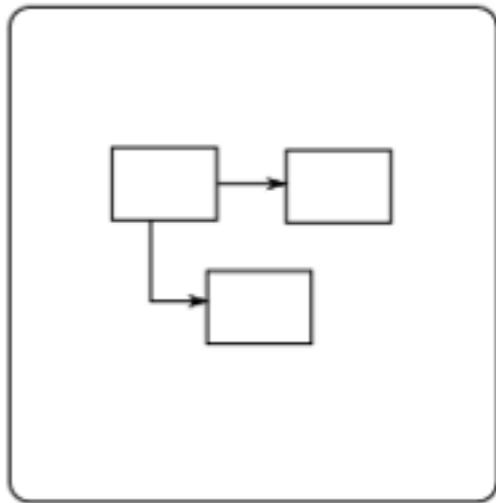
Application

Application Interface

API

HTTP

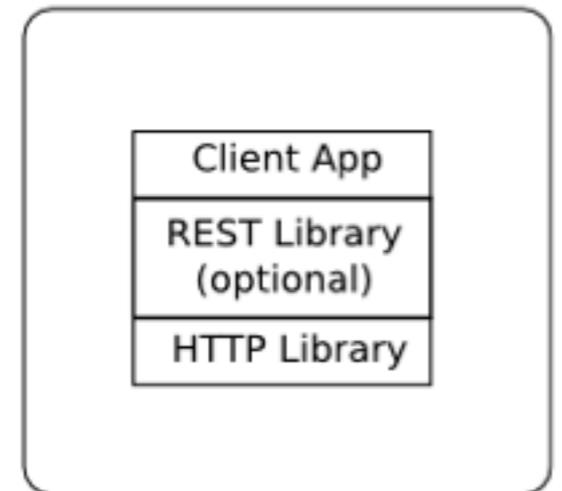
Client



to_resource()
from_resource()



application/x-collection
application/x-resource



Application Data Model

Resource Model

Server

Client

Jetpack/WP.com API

- ◉ Works with WP.com and Jetpack-enabled WP.org blogs
- ◉ All requests go through public-api.wordpress.com
- ◉ Uses oauth2 for authentication
- ◉ You need to register an application at developer.wordpress.com
- ◉ Insights/stats for each application
- ◉ Many real world implementations out there
- ◉ More mature and complete API

What can you do with the Jetpack API?

- ◉ User info & site info
- ◉ Create, edit, delete, find, reblog, and view posts (includes CPTs, post meta & media)
- ◉ Create, edit, delete, find, and view comments
- ◉ Search & related posts
- ◉ Taxonomies (categories/tags & custom ones too)
- ◉ Likes & following/subscribing to a blog

What can you do with the Jetpack API?

- ◉ WordPress.com Freshly Pressed content
- ◉ Notifications
- ◉ WP.com stats
- ◉ WP.com reader
- ◉ Your own app's insights
- ◉ Coming soon: Publicize, additional media capabilities, embeds/shortcodes; wp-admin feature parity

Howdy, Developers

Build something amazing that will reach over a billion people across more than 21% of the web.

Get Started

REST API

Some of our available endpoints:

 **Publishing**
Push new content

 **Likes**

Embed

Create embeddable timelines, follow, and share buttons.

Timelines New

Display a listing of your latest posts to your website with one line of code.

Follow button

Let other WordPress.com users easily follow your site.

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Documentation

Getting started with WordPress.com development is easy. Our data is exposed via a REST Application Programming Interface (API) and uses the OAuth2 protocol for authentication.

Ready to start developing your application? Great! [Create a new application](#); you'll need to provide some basic information about your application and then you'll receive an OAuth2 token for use in your application.

In addition to the REST API, we also support additional integrations & partnerships. Take a look at our documentation!

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WP-API

- ◉ Backed by the core team
- ◉ Scheduled for release in core in a future version
- ◉ Great infrastructure/ecosystem
- ◉ WP-CLI integration
- ◉ No large scale implementations yet
- ◉ Uses cookies or oauth1 for authentication

What can you do with the WP-API?

- ◉ Retrieve and create/update site info, posts, users, taxonomies, comments, post meta, revisions, media
- ◉ Truly RESTful (uses GET, POST, PUT, DELETE for different operations)
- ◉ Typical route is `/wp-json/**object**/**id**`
- ◉ Expandable via hooks and filters

Both APIs have a console where you can simulate requests and inspect the results that each produce.

The screenshot shows the REST Explorer interface. The left sidebar contains a 'REFERENCE' section with 'SITES' expanded. The selected endpoint is 'GET /sites/\$site' with a description 'Information about a site ID/domain'. The 'PATH' section shows '\$site' set to '3584907'. The 'QUERY' section is empty. The main area displays the request 'GET /sites/3584907' with a response time of 142 ms and a status of 200. The response is shown in 'Pretty' format as a JSON object:

```
{
  "ID": 3584907,
  "name": "WordPress.com News",
  "description": "The latest news on WordPress.com and the WordPress community.",
  "URL": "http://en.blog.wordpress.com",
  "jetpack": {
    "post_count": 1088,
    "subscribers_count": 11057944
  },
  "lang": "en",
  "visible": true,
  "is_private": false,
  "is_following": false,
  "meta": {}
}
```

At the bottom, there are 'Reset' and 'Submit' buttons.

Comparison doc in the WP-API Github repo

WordPress JSON API Comparison

The purpose of this document is to compare the WordPress JSON REST API (WP API) to the other WordPress JSON API projects. Included in this comparison are the [WordPress.com JSON REST API](#) that is available as part of [JetPack](#), and the [XML-RPC API](#), which is built into WordPress Core.

Functionality

Key

- **M**: Multisite only
- **P**: Available via (official) plugin
- **~**: Partially available

Authentication

Feature	WP API	WP.com JSON API	XML-RPC API
Cookie-based	X		
Basic authentication	P		X
OAuth1	X		
OAuth2		X	

Sulfur Demo Application

The screenshot shows the GitHub repository page for 'Automatic/sulfur'. The repository is public and contains 172 commits, 2 branches, 0 releases, and 7 contributors. The latest commit is by kellychoffman, titled 'safari bug', made 10 days ago. The repository structure includes folders for 'app', 'css', 'fonts', 'images', and 'js', along with files like '.gitignore', 'README.md', and 'index.html'. The right sidebar shows options to view code, issues, pull requests, and network activity, along with a 'Clone in Desktop' button and a 'Download ZIP' button.

Automatic/sulfur - GitHub

GitHub, Inc. [US] <https://github.com/automatic/sulfur>

GitHub This repository Search or type a command Explore Features Enterprise Blog Sign up Sign in

PUBLIC Automatic / sulfur Star 22 Fork 4

Media manager written for the WordPress.com & Jetpack REST API.

172 commits 2 branches 0 releases 7 contributors

branch: master sulfur / +

safari bug

kellychoffman authored 10 days ago latest commit 7f2c37a116

app	safari bug	10 days ago
css	Safari bug fix	a month ago
fonts	Add JS files needed, and bootstrap.	a month ago
images	New auth page	a month ago
js	add momentjs for formatting the date	a month ago
.gitignore	safari bug	10 days ago
README.md	Update README.md	a month ago
index.html	New auth page	a month ago

README.md

Code

Issues 1

Pull Requests 1

Pulse

Graphs

Network

HTTPS clone URL

<https://github.com>

You can clone with HTTPS or Subversion.

Clone in Desktop

Download ZIP



is on Github too!

The Future

- ◉ Everything from wp-admin should be do-able from the API
- ◉ WP-API introduction in core
- ◉ WP-API and WP.com/Jetpack APIs will converge
- ◉ Maybe someday wp-admin is rewritten as a javascript app that uses the API?

I'm lost! what are my resources?

- WP.com developer site (developer.wordpress.com)
- WP-API resources at wp-api.org
- Tweet us @AutomatticEng
- Contact form on the [WP.com](https://developer.wordpress.com) developer site (we reply quickly)
- Email me directly: jkudish@automattic.com

Q&A: ASK ME ANYTHING

<http://slides.jkudish.com>



Joey Kudish
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AUTOMATTIC