

WP YVR Meetup

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jkudish.com

@jkudish

Let's talk about interacting with WordPress from outside of WordPress.

Oh by the way, these slides are at
<http://slides.jkudish.com/>

WordPress as an application platform

Yeah. RLY.

But Why?

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](#).

W Follow Developer Resources 2,208

+ Follow

Howdy, Developers

WordPress.com has a REST API that lets you push new content, like posts and pages, to your site. You can also use the REST API to get content from your site, like posts and pages.



REST API

Some of our available endpoints:

- Publishing**
Push new content
- Likes**



What is the API exactly?

- json RESTful API
- allows you to integrate data + features from WordPress into any application.
- works with any language/platform as long as it can make HTTP requests.
- works with WordPress.com and Jetpack-enabled WP.org blogs (since 1.9+! now at 3.0.2).

What is the API exactly?

- uses oauth2 for authentication.
- some information queryable without authentication.
- insights/stats into your own app usage.

What can you do with the API?

- user info
- site metadata
- create, edit, delete, find, reblog, and view posts (includes CPTs & post meta)
- create, edit, delete, find, and view comments
- search & related posts
- taxonomies (categories/tags & custom ones too)

What can you do with the API?

- media
- likes & following/subscribing to a blog
- WordPress.com Freshly Pressed content
- notifications
- stats
- WordPress.com reader
- your own app's insights

We've added a lot to it in the last few months... and continue to add

The goal is that anything you can do in wp-admin, you should be able to do with the API

Who's using it?


[View In iTunes](#)

+ This app is designed for both iPhone and iPad

Free

Category: [Social Networking](#)

Updated: Apr 15, 2014

Version: 4.0.2

Size: 14.4 MB

Languages: English, Bokmål, Norwegian, Croatian, Danish, Dutch, French, German, Hebrew, Hungarian, Indonesian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish

Seller: Automattic, Inc.

© Automattic Inc

Rated 4+

Compatibility: Requires iOS 7.0 or later. Compatible with iPhone, iPad, and iPod touch.

This app is optimized for iPhone 5.

Description

It's easy to manage your WordPress blog or site from your iOS device. With WordPress for iOS, you can moderate comments, create or edit posts and pages, view stats, and add images or videos with ease. All you need is a WordPress.com blog or a self-hosted WordPress.org site running 3.6 or higher.

[Automatic Web Site](#) ▶ [WordPress Support](#) ▶

[...More](#)

What's New in Version 4.0.2

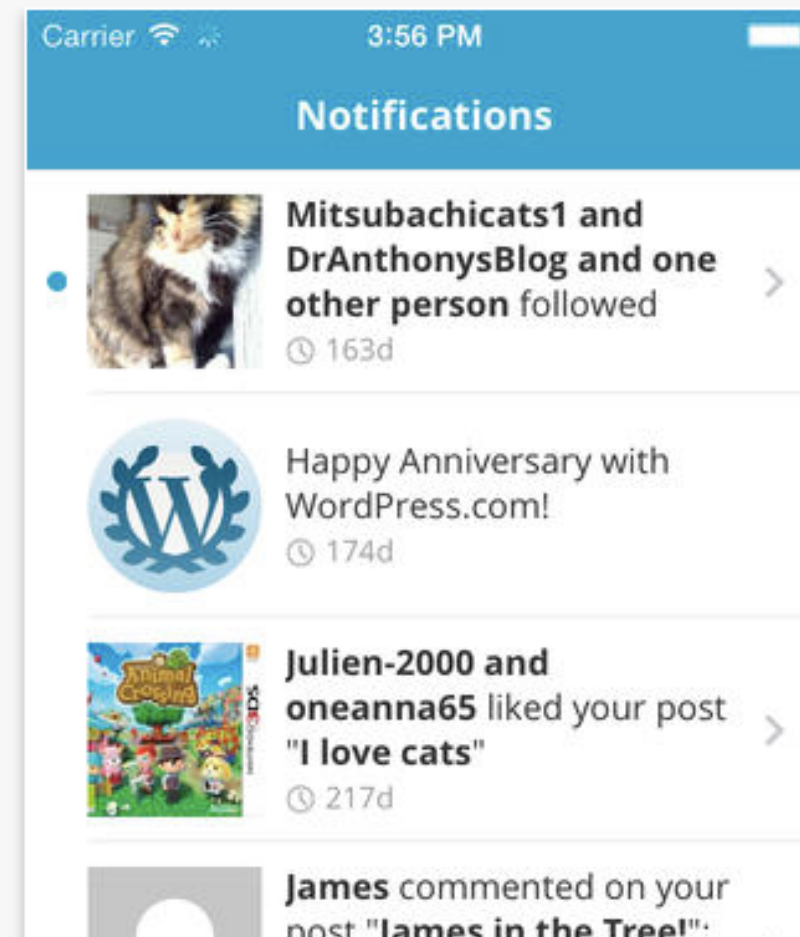
Fixed a bug where users were unable to schedule posts.

Screenshots

iPhone | iPad



How To Be a WordPress.com Detective



Google play

Search



Sign in



Apps

My apps

Shop

Games

Editors' Choice



WordPress

Automattic, Inc - May 1, 2014

Social

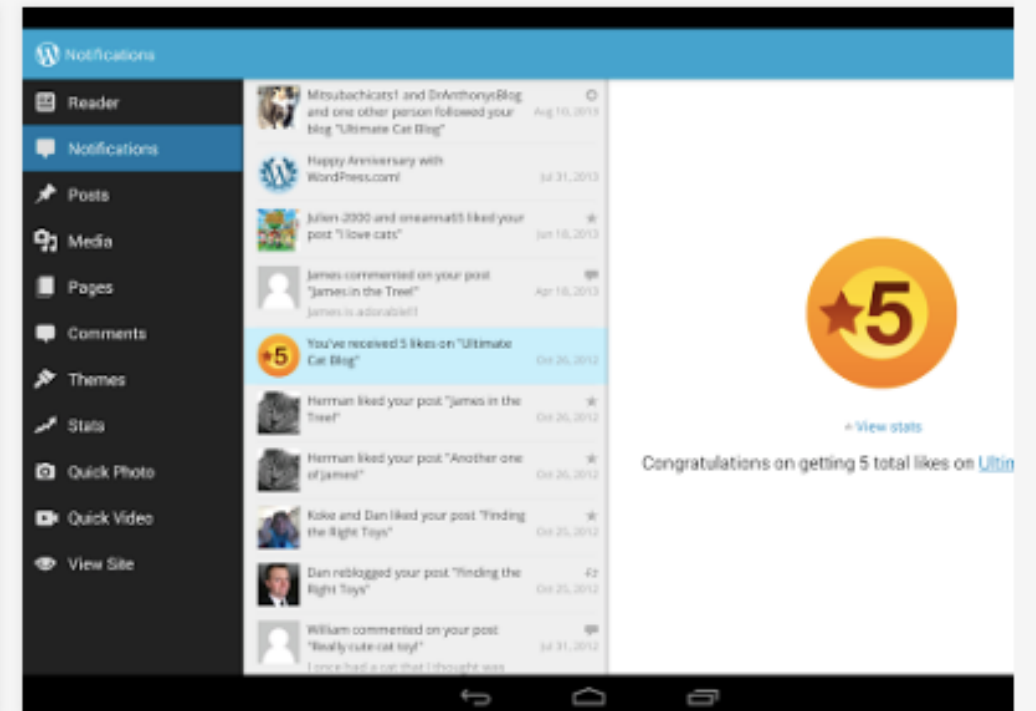
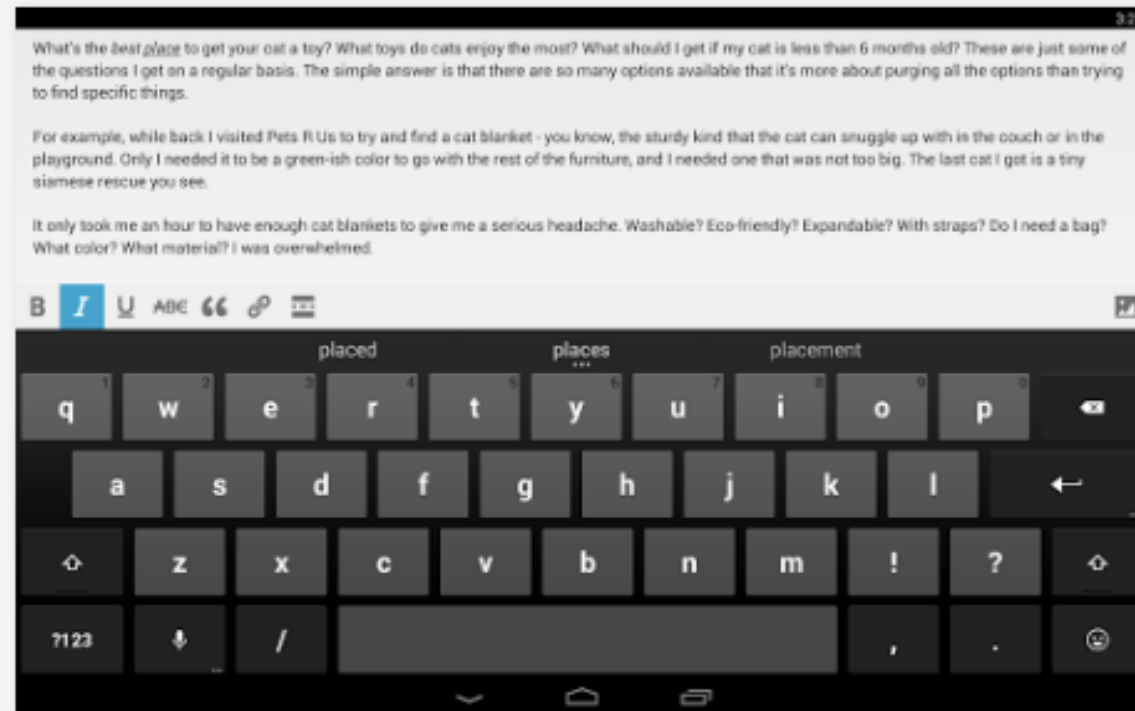
Install



Add to Wishlist

★★★★☆ (36,582)

Top Developer



Freshly Pressed



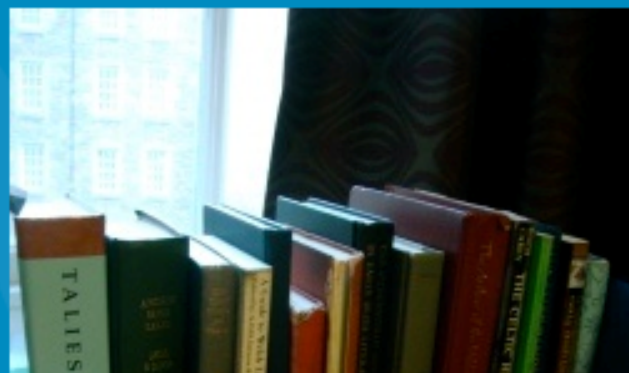
Most Call it Mardi Gras, Some Call it Shrove Tuesday, I Call it Pancake Day!

Foodimentary



Images from Hanoi

Not Really a Blog



Losing Yourself and Finding Some Chocolate: Beating the Writer's Block

Lantern Hollow Press



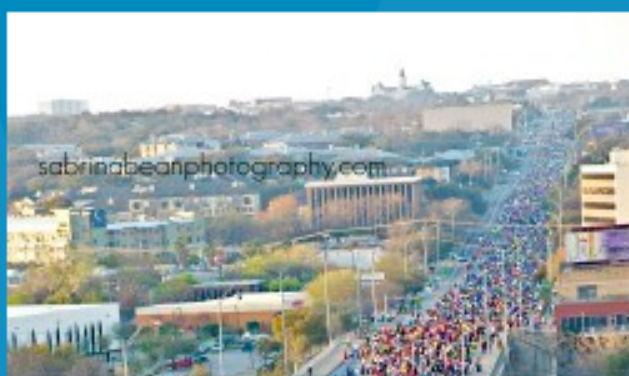
The Vegetarian's Dilemma

The Camel Life



Silent Colors

plain steam rice



2012 Austin Marathon

Behind the scene with Bean



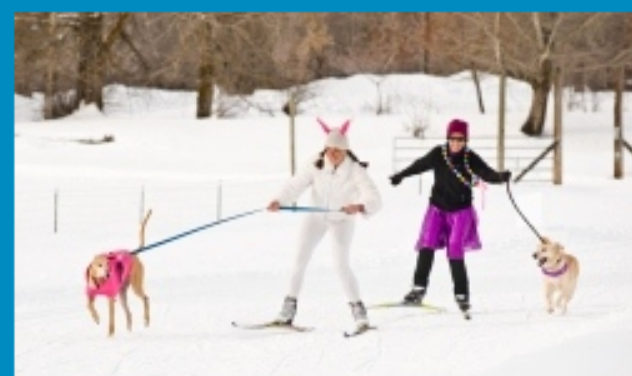
The Roundtable: Oscars' in the Air

Filmophilia



A Walk in the Minnesota Woods

Sarah takes pictures.



The Doggie Dash – A Six Legged Race

My Everyday Photos



CBMK Skatepark

christophbphoto



Reader

Stats

My Blogs

Freshly Pressed

New Post



Matt on Not-WordPress

Following



Live at the Fillmore

Moblog

3d

Reblog

Comment 4

Like 149

YOU MAY LIKE

MORE



MacManX.com

Followed by people with similar interests



John James Jacoby

Followed by bloggers you follow



Matt Miklic

Followed by bloggers you follow



Photos

Followed by people with similar interests





What's on your mind?

I'm with...

I'm at...

Share on:





Wordpress.com











Disconnect



Last.fm

Connect

Close Share

-  Evernote >
-  Facebook >
-  Kippt >
-  LinkedIn >
-  Pinboard >
-  Reddit >
-  StumbleUpon >
-  Tumblr >
-  Twitter >
-  WordPress >

APPS

[Browse Recipes](#)[Sign in](#)[Join](#)

WordPress Channel

IFTTT enables you to connect the WordPress Channel to 100 different Channels. [View all Channels](#)



WordPress is an open source blog tool and publishing platform. [WordPress.com](#) is a hosted weblog provider brought to you by some of the same folks who work on the open source blogging software.

[Activate](#)

Popular WordPress Recipes



Let's get started

 [Developers](#)

[Documentation](#)

[Blog](#)

[My Apps](#)

[Contact](#)

[DEVELOPER.WORDPRESS.COM/APPS/](https://developer.wordpress.com/apps/)

My Applications

[Create New Application](#)



WordPress.com Test Application

The best app you will ever use.

[View Insights](#) | [Manage Application](#)

Name

The name of your application. This is used in the authorization dialogs.

Description

The description of your application.

Website URL

The URL to an informational home page about your application.

Redirect URL

The URL we should redirect to during the authorization process.

Type

- Web** clients must be able to keep the generated secret private and should do all authenticated API calls server to server.
- Native** clients are those that cannot keep the generated secret private. They usually live in a user's browser or mobile device and make client-side authenticated API calls.

Create









WordPress.com Test Application



App Description: The best app you will ever use.

App URL: <http://binarysmash.com/>

Tools

-  [Manage Settings](#)
-  [Manage Users](#)
-  [View Insights](#) New
-  [Documentation](#)
-  [Developer Console](#)
-  [Create New App](#)
-  [Contact](#)
-  [Delete Application](#)

OAuth Information

Client ID	### ID GOES HERE ###
Client Secret	Random String of Characters Reset Key
Redirect URL	http://binarysmash.com/wpoauth/
Type	Native
Request token URL	https://public-api.wordpress.com/oauth2/token

Save them for later

```
$client_id = '1';  
$client_secret = '#####';  
$redirect_url = 'http://wordcampottawaisthebest.com';
```

AUTHENTICATION

- done via OAuth2
- authorization_code grant type

[DEVELOPER.WORDPRESS.COM/DOCS/OAUTH2/](https://developer.wordpress.com/docs/oauth2/)

OAUTH2 ENDPOINTS

- <https://public-api.wordpress.com/oauth2/authorize>
- <https://public-api.wordpress.com/oauth2/token>

FIRST STEP: REDIRECT

- [https://public-api.wordpress.com/oauth2/authorize?
client_id=**your_client_id**&redirect_uri=**your_url**&response_type=
code](https://public-api.wordpress.com/oauth2/authorize?client_id=your_client_id&redirect_uri=your_url&response_type=code)
- Exchange it for access

Howdy **justin**, Klout wants to connect to WordPress.com.

Select a blog to connect:

 **Authorize**

Cancel

[What permissions are being granted?](#)



To connect using an account other than **justin** please [sign out](#) first.

In return, you get a code!!

<http://wordcampottawa.com/myapp/?code=cw9hk1xG9k>

Let's send that back to get access

```
$curl = curl_init( "https://public-api.wordpress.com/oauth2/token" );
curl_setopt( $curl, CURLOPT_POST, true );
curl_setopt( $curl, CURLOPT_POSTFIELDS, array(
    'client_id' => $client_id,
    'redirect_uri' => $redirect_uri,
    'client_secret' => sanitize_key( $_GET['code'] ), // the code we got from the authorization screen
    'grant_type' => 'authorization_code',
) );

curl_setopt( $curl, CURLOPT_RETURNTRANSFER, 1 );
$auth = curl_exec( $curl );
```

You get some handy stuff back

```
$secret = json_decode( $auth );  
print_r( $secret );  
  
{  
    'access_token' : **YOUR_API_TOKEN**  
    'blog_id' : 1234  
    'blog_url' : 'http://mysupercooljetpackblog.com'  
    'token_type' : 'bearer',  
}
```

Save the token and site ID for later.

```
$access_token = $secret->access_token;  
$site_id = $secret->blog_id;
```

Huzzah! authentication is as simple as that...

What good is any of this so far?

Let's make our first *real* API call.

WHO AM I??

[https://public-api.wordpress.com/
rest/v1/me](https://public-api.wordpress.com/rest/v1/me)

```
$options = array(
    'http' =>
    array(
        'ignore_errors' => true,
        'header' => array(
            'authorization: Bearer ' . **$access_token**,
        ),
    ),
);

$context = stream_context_create( $options );
$response = file_get_contents( 'https://public-api.wordpress.com/rest/v1/me', false, $context );

$reponse = json_decode( $response );
```

GET <https://public-api.wordpress.com/rest/v1/me>

```
{
  "ID": 10916751,
  "display_name": "Joey Kudish",
  "username": "jkudish",
  "email": "jkudish@automattic.com",
  "primary_blog": 21221610,
  "token_site_id": false,
  "avatar_URL": "https://2.gravatar.com/avatar/e3b86944dc95b3f722798bc3a74fe11d?s=96&d=identicon",
  "profile_URL": "http://en.gravatar.com/jkudish",
  "verified": true,
  "meta": {
    "links": {
      "self": "https://public-api.wordpress.com/rest/v1/me",
      "help": "https://public-api.wordpress.com/rest/v1/me/help",
      "site": "https://public-api.wordpress.com/rest/v1/sites/5836086"
    }
  }
}
```


What theme am I running on my primary blog?

```
GET https://public-api.wordpress.com/rest/v1/  
sites/21221610/themes/mine
```

(We got the site ID from the `primary_blog` key from the last response.)

Let's change it!

```
POST https://public-api.wordpress.com/rest/v1/  
sites/21221610/themes/mine
```

```
curl 'https://public-api.wordpress.com/rest/v1/  
sites/36336212/themes/mine?http_envelope=1&' --  
data 'theme=twentythirteen'
```

(auth removed for brevity)

Jetpack just works

- you don't need to do anything special, just activate the JSON API module (auto-activated by default),
- Jetpack sites show up in the OAuth Dialog.
- Jetpack sites have a site ID just like WordPress.com.
- a few endpoints (e.g. reblogging) are WordPress.com only.
- the /me endpoint always returns the WordPress.com user.

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!

Browse by Topic

API

- [REST API](#)
- [OAuth Authentication](#)
- [Developer Console](#)
- [oEmbed Provider API](#)

W Follow 2,209

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[Introducing WordPress.com Insights](#)

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[REST API Resources](#)

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REFERENCE

SITES

GET /sites/\$site

Information about a site ID/domain

POSTS

GET /sites/\$site/posts/

Return matching Posts

GET /sites/\$site/posts/\$post_ID

Return a single Post (by ID)

POST /sites/\$site/posts/\$post_ID

Edit a Post

PATH

Raw



\$site

3584907

QUERY

Raw



http_envelope

pretty

meta

fields

callback

GET /sites/3584907

142 ms

200

Structured

Pretty

Raw

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 :

is_following :

▶ meta : Object

Reset

Submit

PUBLIC



Automattic / rest-api-console

★ Star

5

🍴 Fork

4

WordPress.com REST API Developer Console

6 commits

1 branch

0 releases

2 contributors



branch: master

rest-api-console / +



Typo fix



codebykat authored 18 days ago

latest commit 604fe21e01

css

initial commit of a console that works with CORS

a month ago

js

initial commit of a console that works with CORS

a month ago

README.md

Typo fix

18 days ago

config.sample.json

initial commit of a console that works with CORS

a month ago

index.html

initial commit of a console that works with CORS

a month ago

README.md

WordPress.com REST API Developer

Code

Issues

0

Pull Requests

0

Pulse

Graphs

Network

HTTPS clone URL

https://github.com

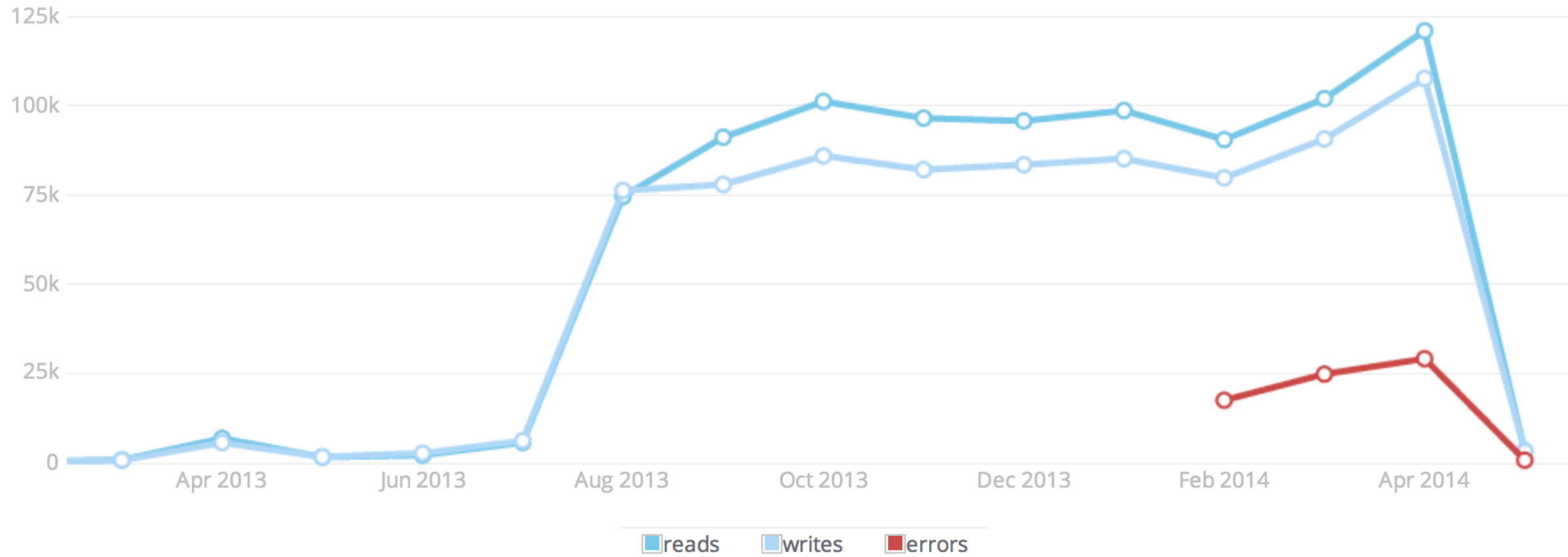


You can clone with HTTPS or Subversion.

Clone in Desktop

Download ZIP

API Overview



Today's API Numbers

API Calls

↑5%

10,323

Posts

↑14.5%

1,053

Likes On Published Posts

↑0%

93

Tools

- Developer Console
- Create New App
- Share
- Documentation
- Insights Help

Daily

Weekly

Monthly

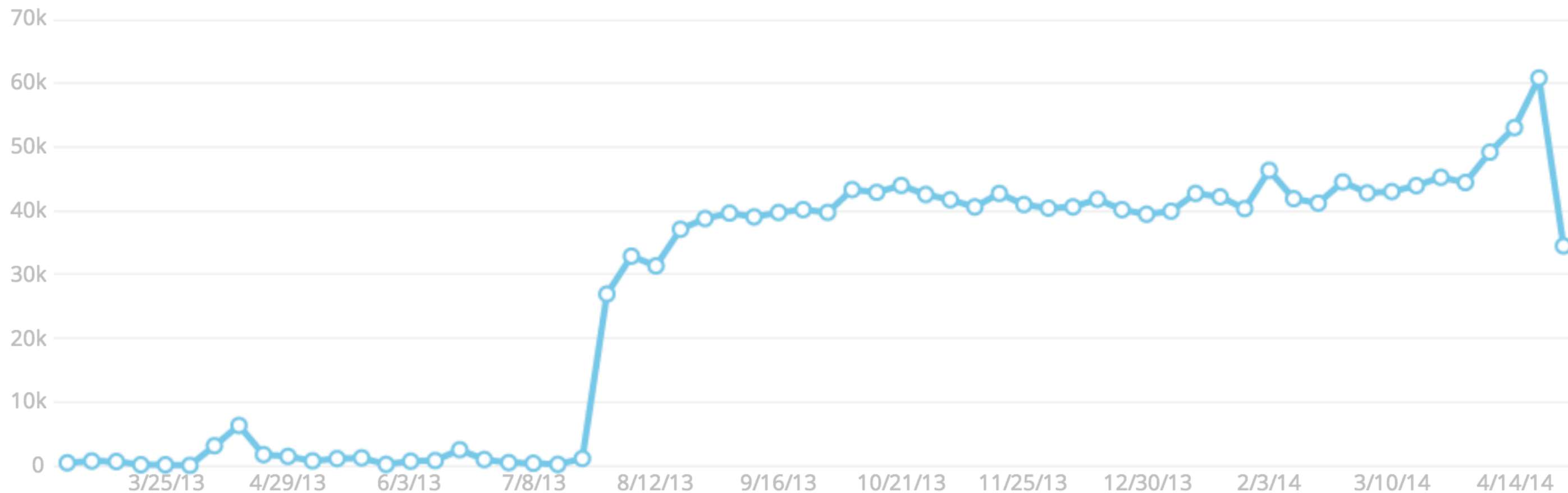
Cumulative

Start

End

Calls

Export



10,323 Daily

↑5% since yesterday

64,760 Weekly

↑19.2% since last week

235,581 Monthly

↑22.1% since last month

1,666,541 Yearly

↑11338.2% since last year

Custom Post Types & metadata

- If you're a WordPress.com VIP client or use Jetpack, you can easily support CPTs and custom metadata in the REST API
- <http://wp.me/p2gHKz-OY>
- There's 2 filters `rest_api_allowed_post_types` and `rest_api_allowed_public_metadata`

Single page JS Applications

implicit oauth, CORS support (with whitelisting)

<https://developer.wordpress.com/docs/rest-api-javascript/>



Using the REST API from JavaScript & the Browser (CORS)

[Documentation](#) → [Using the REST API from JavaScript & the Browser \(CORS\)](#)

The [REST API](#) can be used directly from the browser using Javascript. If you whitelist the domains you want to use for your application, we will send the correct [CORS](#) headers. Both authenticated and unauthenticated calls are supported. To make authenticated requests follow the [implicit section of the OAuth documentation](#) to get a user token.

All examples use jQuery.

Unauthenticated Requests

You can make unauthenticated GET requests with no additional work. Just make a simple HTTP request:

```
1 | jQuery.get( "http://public-api.wordpress.com/rest/v1/sites/en.blog.word  
2 |           // response contains site information  
3 | } );
```

On this page:

[Receiving an Access Token](#)

[Making an API Call](#)

Authentication

- [OAuth2 Authentication](#)

Users

- [List the Users of a blog](#)
- [Meta data about auth token's User](#)

Sites

- [Information about a site ID/domain](#)

Don't want to query blogs? Just need auth?

Try WPCC



Connect with WordPress.com

Want a follow button?

<http://developer.wordpress.com/docs/follow-button-creation/>

The follow button is a small button that you can add to any site, that will allow WordPress.com users to easily follow the specified WordPress.com or Jetpack enabled blog.

Use the options below to generate the code for your WordPress.com Follow Button. You can use the generated code snippet to embed the Follow button anywhere you'd like to on the web.

For more information on how to use this generator, [click here](#).

Button Options

Blog to follow

Show follower count

Show blog name

Language

Generate

Preview and code

Try out your button, then copy and paste the code below into the HTML for your site.

 Following WordPress.com News 11,067,478

```
<a class="wordpress-follow-button" href="http://en.blog.wordpress.com" data-  
blog="http://en.blog.wordpress.com" data-lang="en" data-show-follower-count="true">Follow
```

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[OAuth2 Authentication](#)

[Follow Button Creation](#)

[WordPress.com Firehose](#)

[Photon](#)

[Contact](#)

[Theme Guide](#)

[WordPress.com Connect](#)

Want an embeddable timeline

<http://developer.wordpress.com/docs/embedded-timelines/>


```
1 | <a class="wordpress-timeline" href="http://en.blog.wordpress.com" data-theme="da:
```

WordPress.com Following


News

The latest news on WordPress.com and the WordPress community.

[Continue reading →](#)
wp.me/pf2B5-6WG

 **Around the World in Ten Photos** Apr 25

WordPress.com photographers across the globe know how to capture the perfect moment at any time of day. [Continue reading →](#)
wp.me/pf2B5-6UZ


 **New Themes: Alto, Collective, and Worldview** Apr 24

Powered by WordPress.com

```
1 | <a class="wordpress-timeline" href="http://developer.wordpress.com" data-show-gr
```

Developer Resources Following

Create cool applications that integrate with WordPress.com

 **A brand new Developer Site** Mar 18

As you may have noticed, we've just relaunched the WordPress.com Developer site (the very one you're reading right now!) with a brand new look and feel! We've rebranded the site to match the overall WordPress.com aesthetic as well as to ...

What's next?

- moar endpoints. Everything you can do in wp-admin should be do-able from the API.
- more how-to's and sample apps on the developer site
- What do you want to see?

I'm lost, what are my resources?

- All the docs are at developer.wordpress.com/docs.
- Other resources at developer.wordpress.com.
- Tweet us @AutomatticEng.
- Contact form (we reply within a day usually)
developer.wordpress.com/contact.
- Email me directly: jkudish@automattic.com.

Oh yeah, there's a Core API coming

Ask me Anything + Discussion

- REST API/Developer resources
- WordPress.com/Jetpack
- WordPress development at large
- Working remotely (and travelling while doing it!)
- Automattic
- Beagles
- Bonus (time permitting): let's create your first app