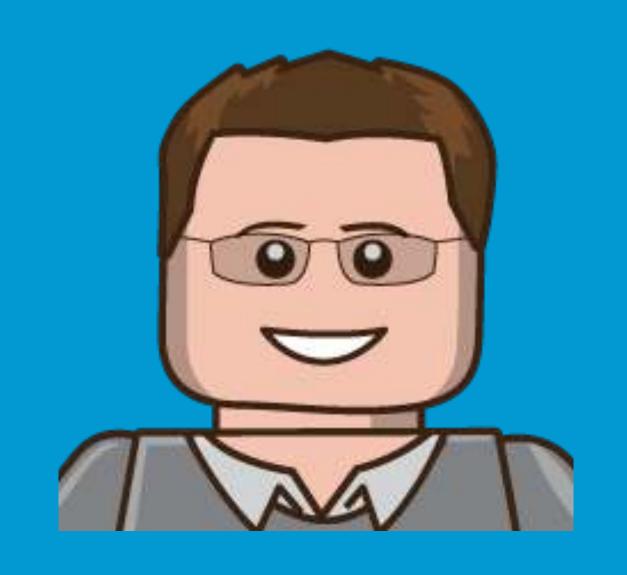




- 1. Introduction to WordPress
- 2. WP-GeoMeta-Lib What/Why/How
- 3. WordPress is a land of opportunity



Who am!?



Michael Moore

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michael.moore@luminfire.com







Consultants Network

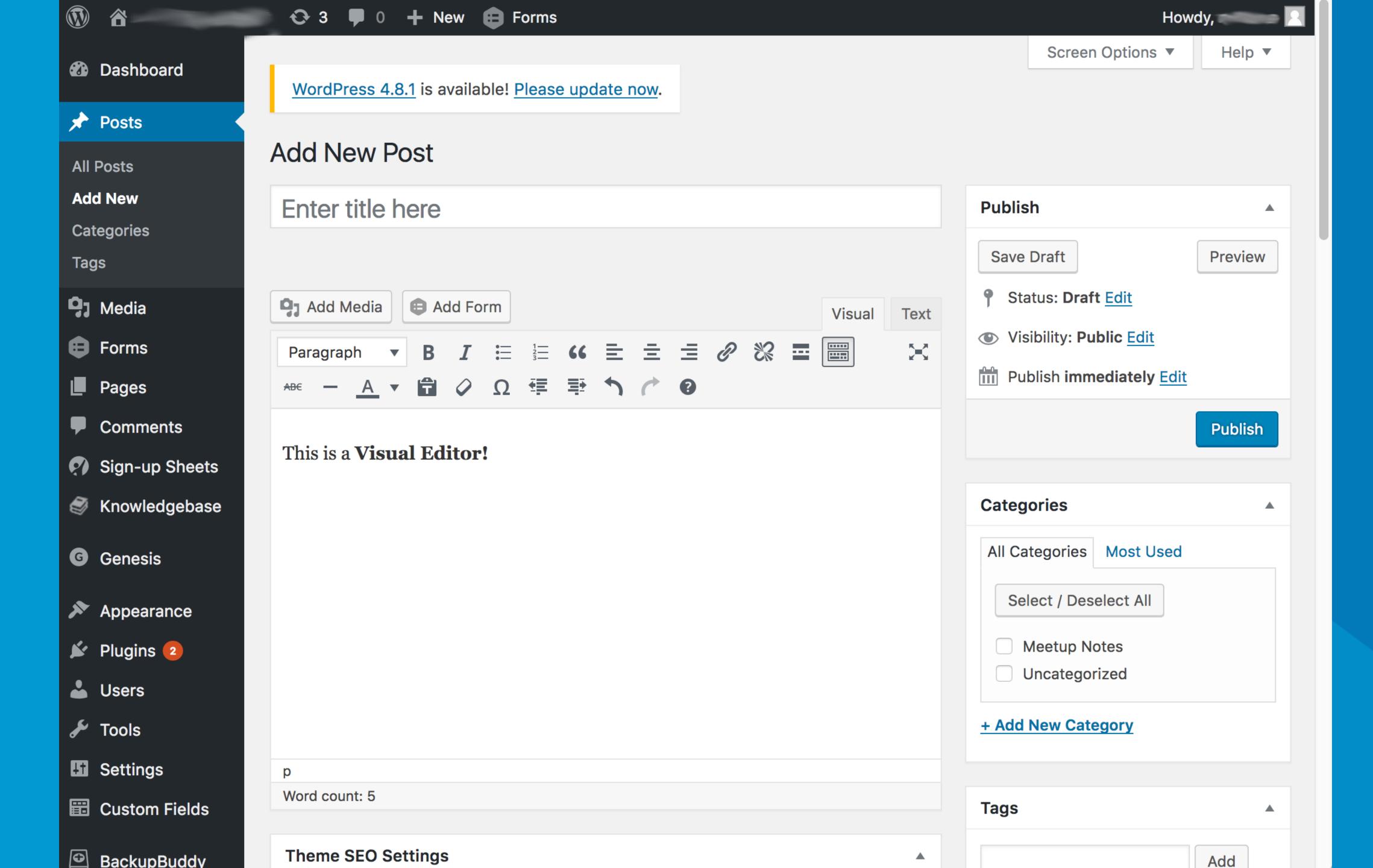
https://LuminFire.com/gis

WORDPRESS



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Pros of WP: Ease of Use

- Famous 5-Minute Install
- 1-Click installers on many web hosts
- No dev skills needed for admins
- TONS of tutorials
- Lots of online support (api, forums, meetups, etc.)

Pros of WP: Ubiquitous

On the cheapest of hosts

iii bluehost	
Plan	Basic
12 Month Term	\$8.99
24 Month Term	\$8.49
36 Month Term	\$7.99

- Developers and Themers are plentiful
- "Nobody ever got fired for choosing WP"

Pros of WordPress: Often the Right Tool (for building websites)

- Good bang for your buck
- Has most needed functionality (w/ plugins)
- Known Quantity



Cons of WP: GIS Support

- Few GIS related plugins
- Few maintained PHP GIS libraries
- Lack of community GIS awareness

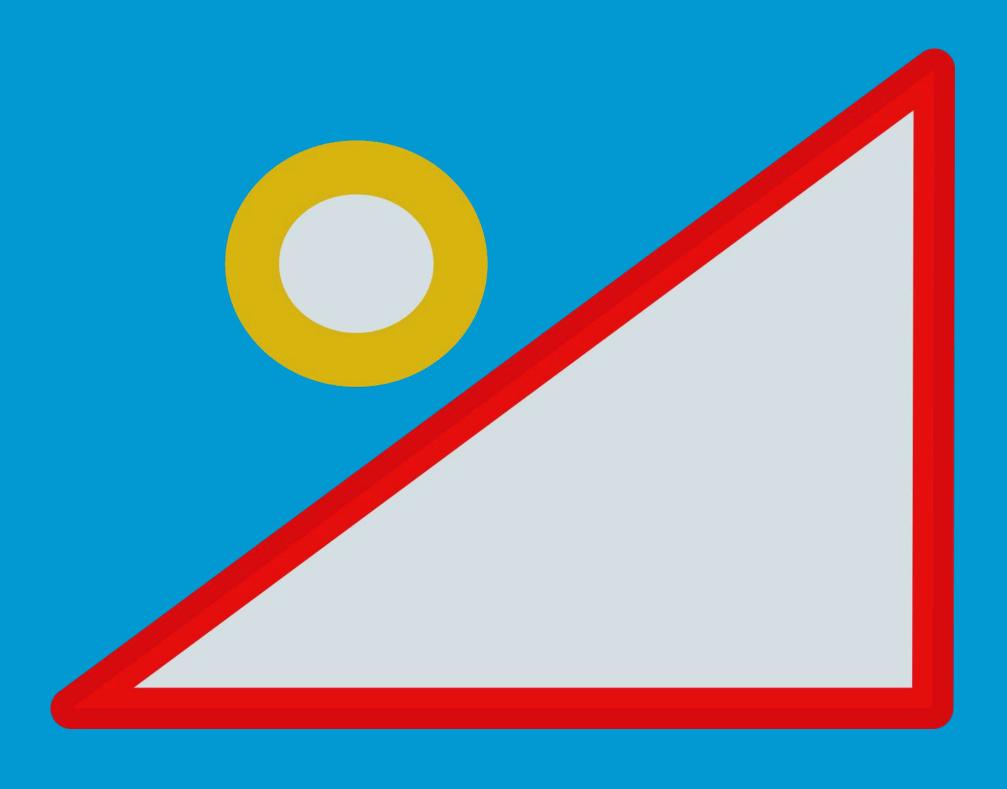
Cons of WP: All Meta Values are Text

meta_id	post_id	meta_key	meta_value
17	3	Name	Steve
18	3	Birthdate	01/01/80
19	3	Address	123 Main St.
20	3	City	Duluth
21	3	State	MN
22	3	Age	37
23	4	Name	Frank
24	4	Birthdate	02/02/90
25	4	Address	321 1st Ave
26	4	City	Superior
27	4	State	WI
28	4	Age	26

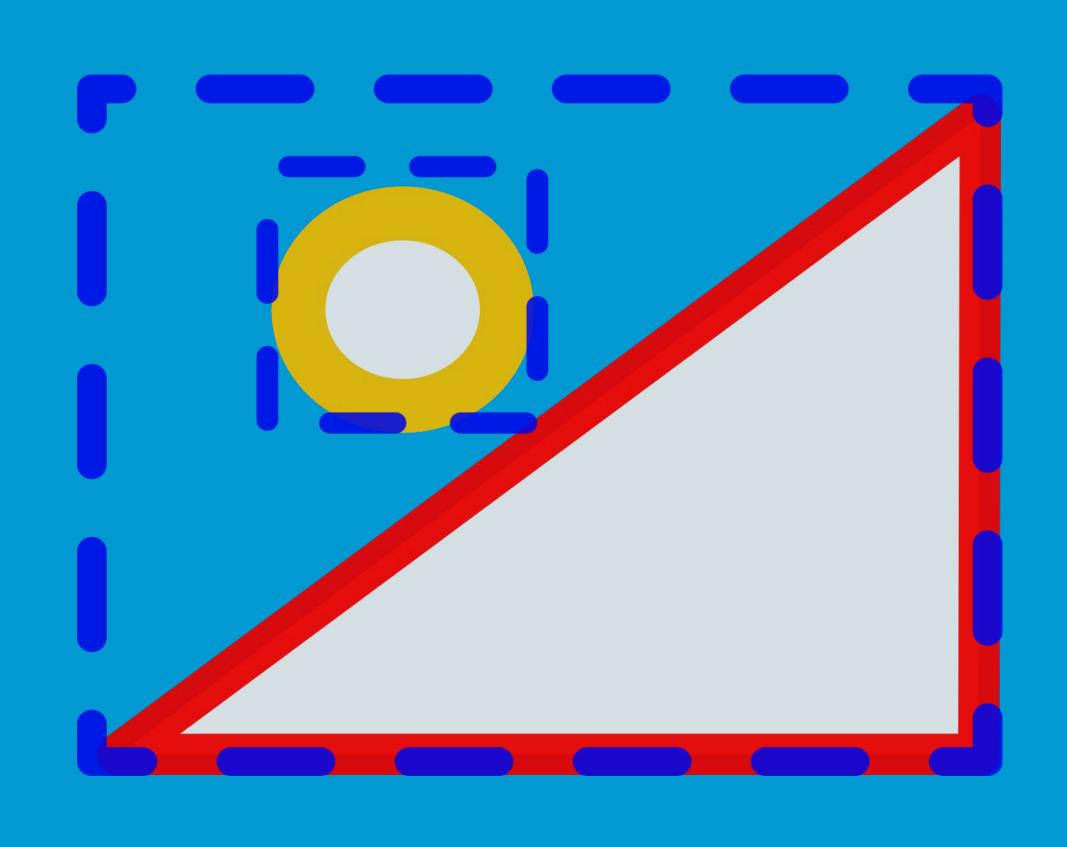
LONGTEXT

String/Text
Date
Number

MySQL: Do These Shapes Intersect?



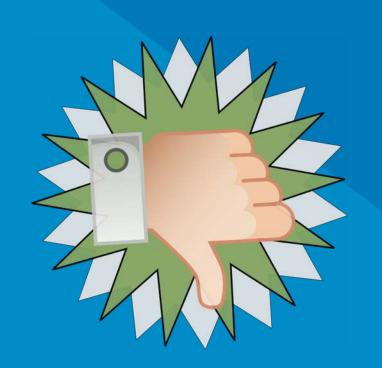
MySQL: Do These Shapes Intersect?



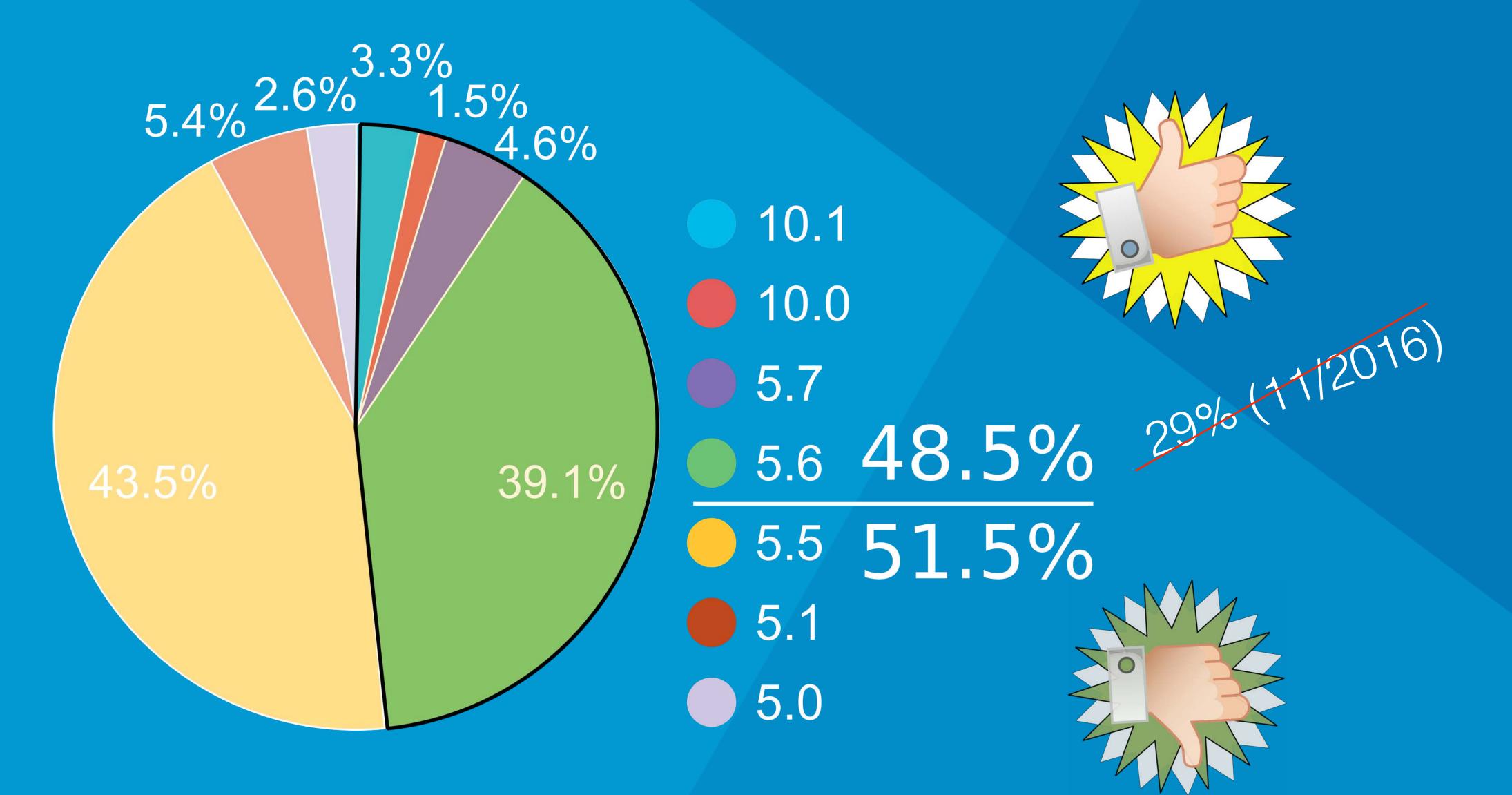
MySQL 5.6
Spatial Intersect
ST_INTERSECTS()



MySQL 5.5
BBOX Intersect
INTERSECTS()
Yes



Cons of WP: MySQL







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Why does WP-GeoMeta-Lib exist?

Collect Store Query Display

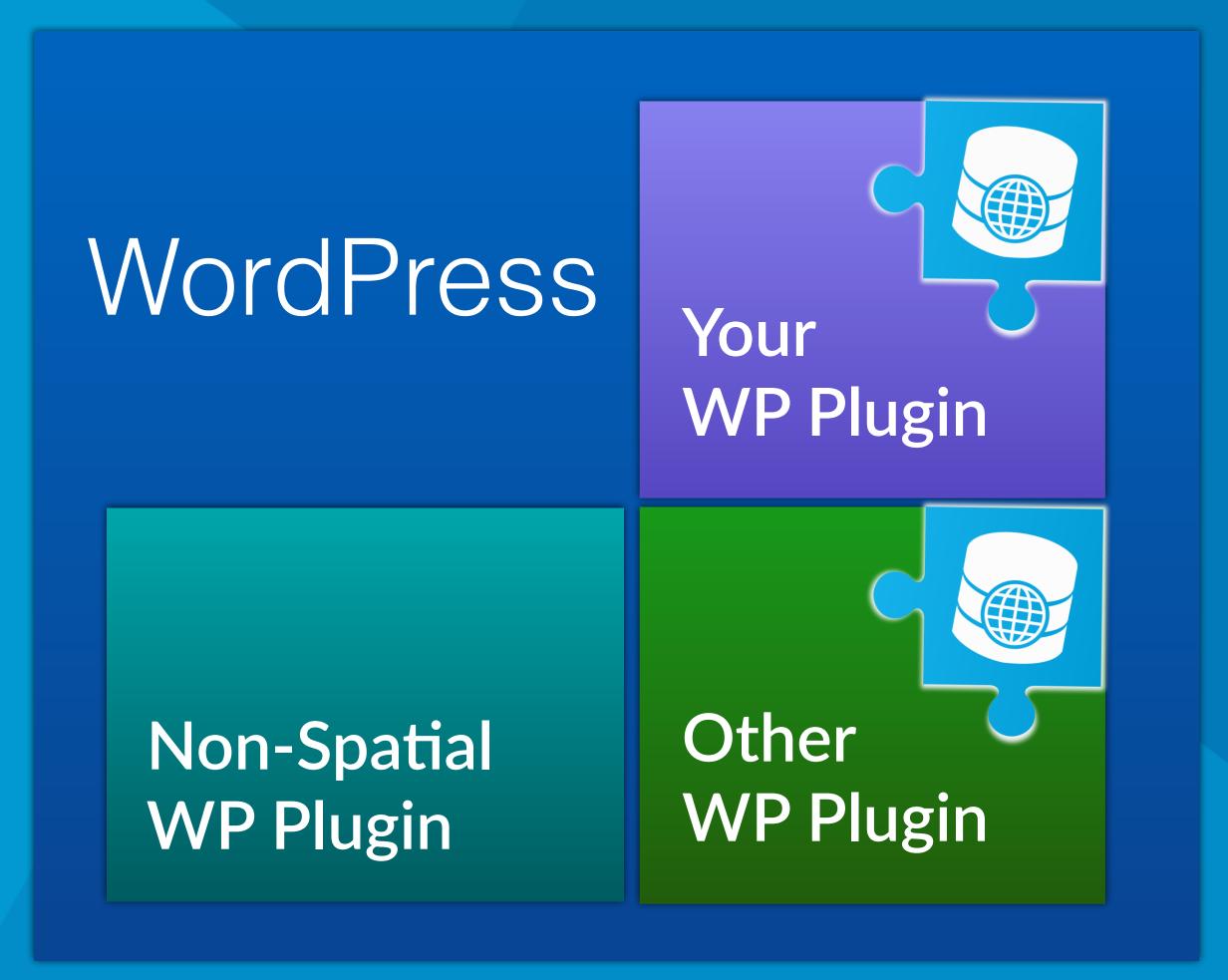


Analyze

What Is WP-GeoMeta-Lib

https://github.com/BrilliantPlugins/wp-geometa-lib

- PHP Library
- Include it in WP plugins
- Handles saving and querying spatial data

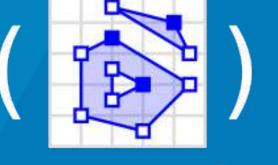


How Does It Work?

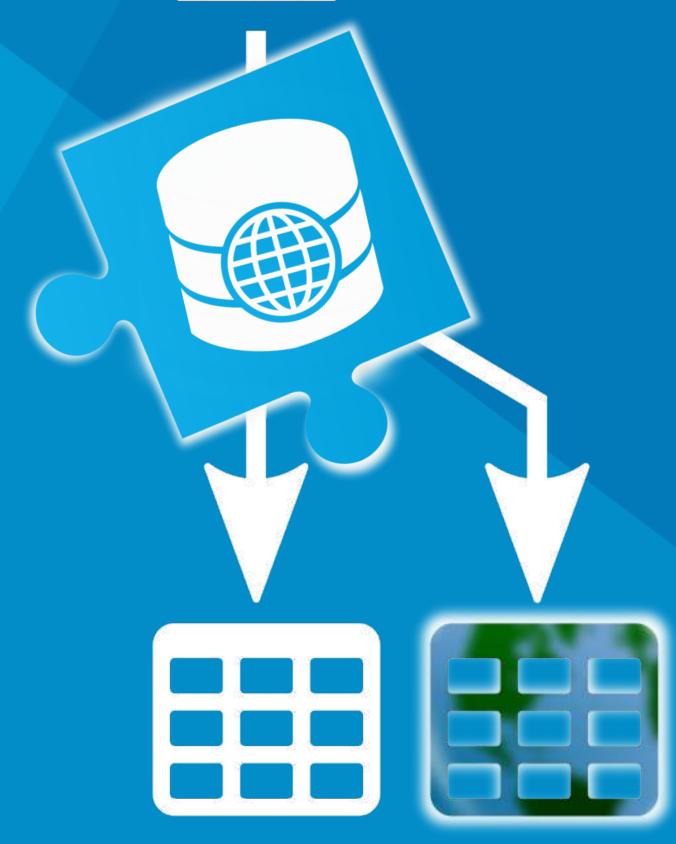
wp_commentmeta	InnoDB	utf8mb4_unicode_520_ci	16,384	32,768
wp_commentmeta_geo	MyISAM	utf8mb4_unicode_520_ci	0	4,096
wp_postmeta	InnoDB	utf8mb4_unicode_520_ci	3,686,400	32,768
wp_postmeta_geo	MyISAM	utf8mb4_unicode_520_ci	1,234,124	23,552
wn tormmets	InnoDR	utf8mb4_unicode_520_ci	16 20/	22 769
wp_termmeta	משטווונ	utionib4_unicode_520_ti	16,384	32,768
wp_termmeta_geo	MyISAM	utf8mb4_unicode_520_ci	0	4,096
wp_usermeta	InnoDB	utf8mb4_unicode_520_ci	16,384	32,768
wp_usermeta_geo	MyISAM	utf8mb4_unicode_520_ci	0	4,096

How Does It Work?

update_post_meta()



When spatial metadata is inserted, it's re-routed and stored in the spatial table instead.



How Does It Work?

WP Query(meta_value => ST_Intersect())



SELECT * FROM



Parts of queries with spatial functions are re-routed to use the spatial tables.



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Opportunity

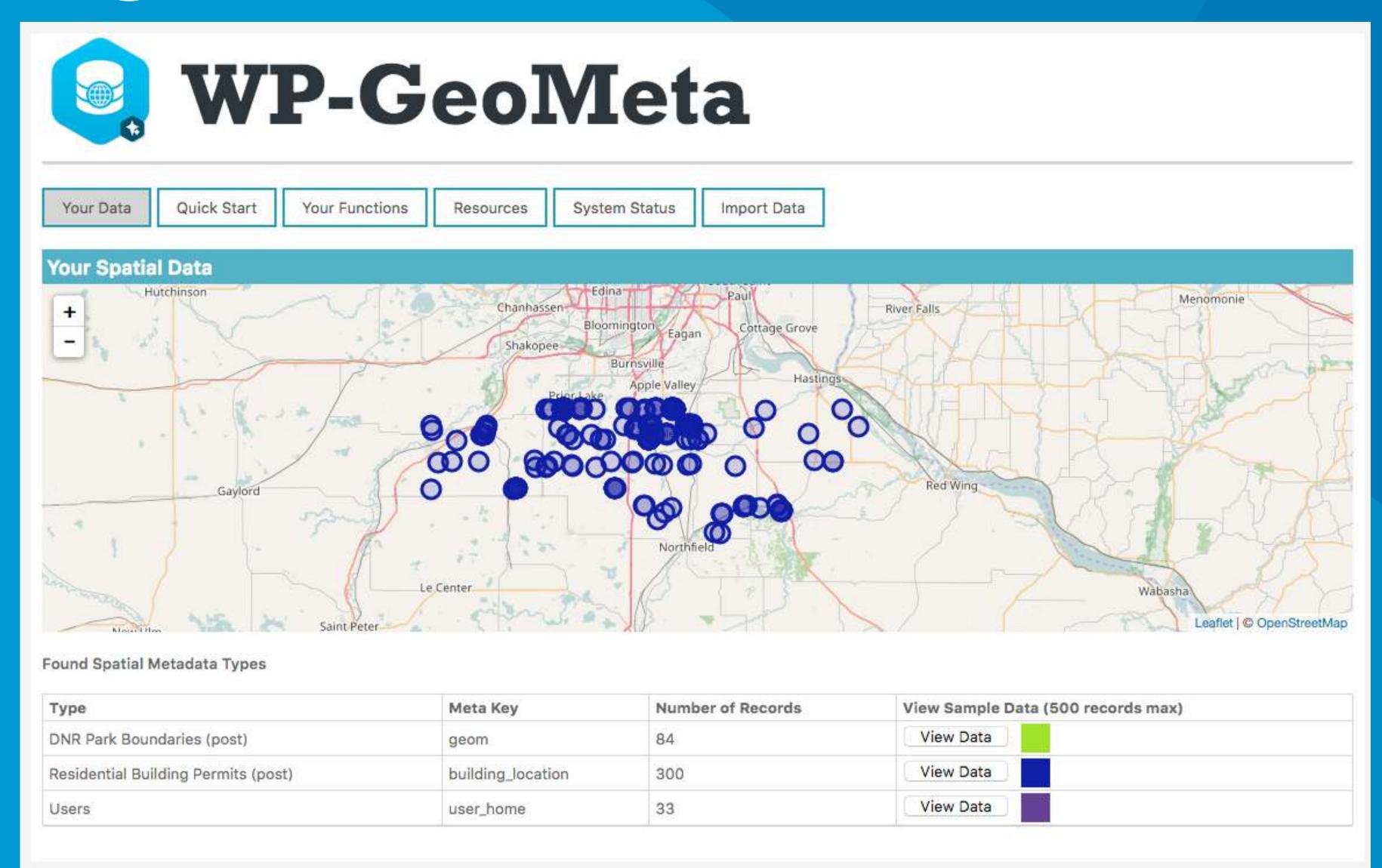
Collect Store Query Display



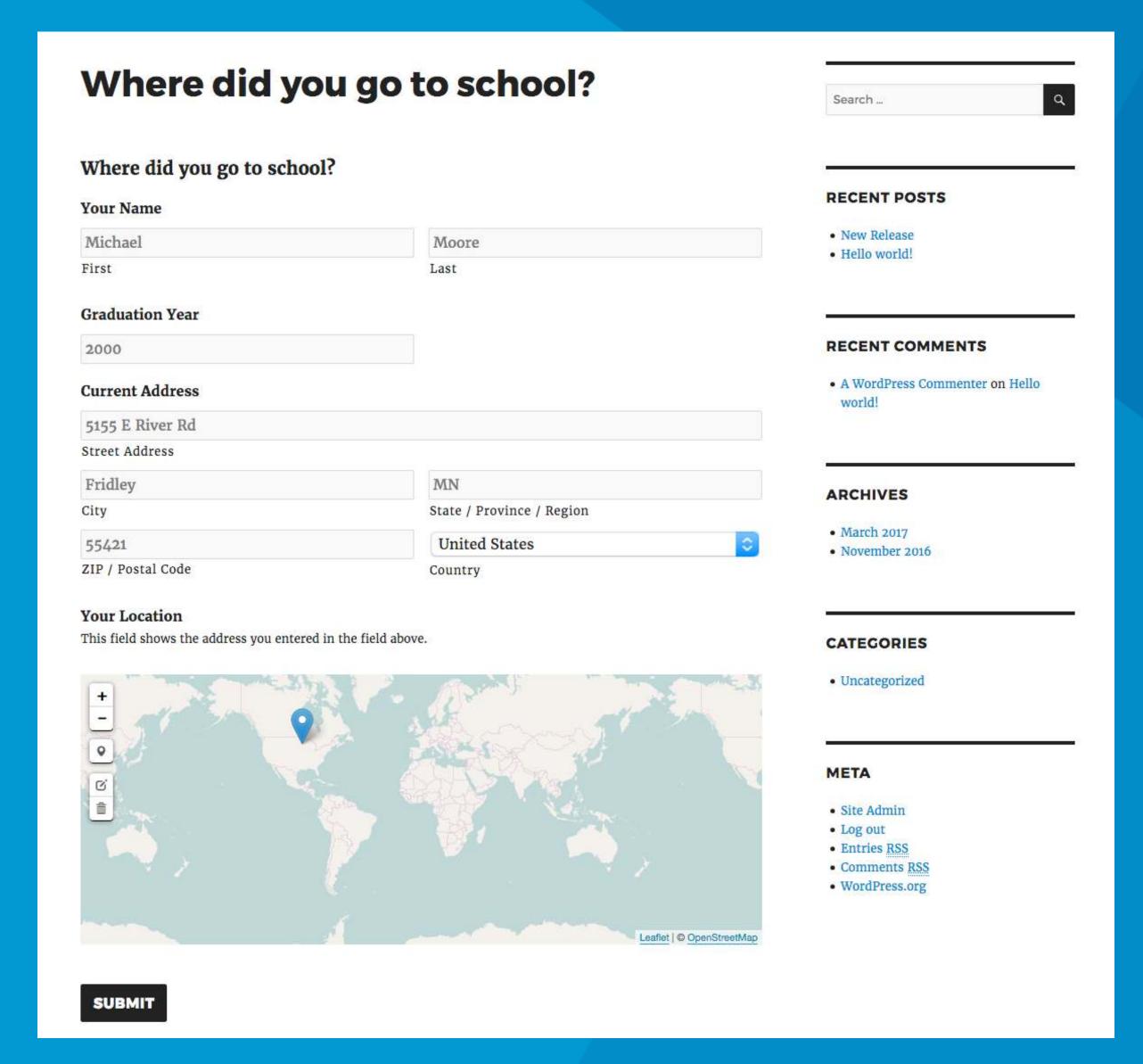
Analyze

WordPress is used by 59.3% of all the websites whose content management system we know. This is 28.4% of all websites.

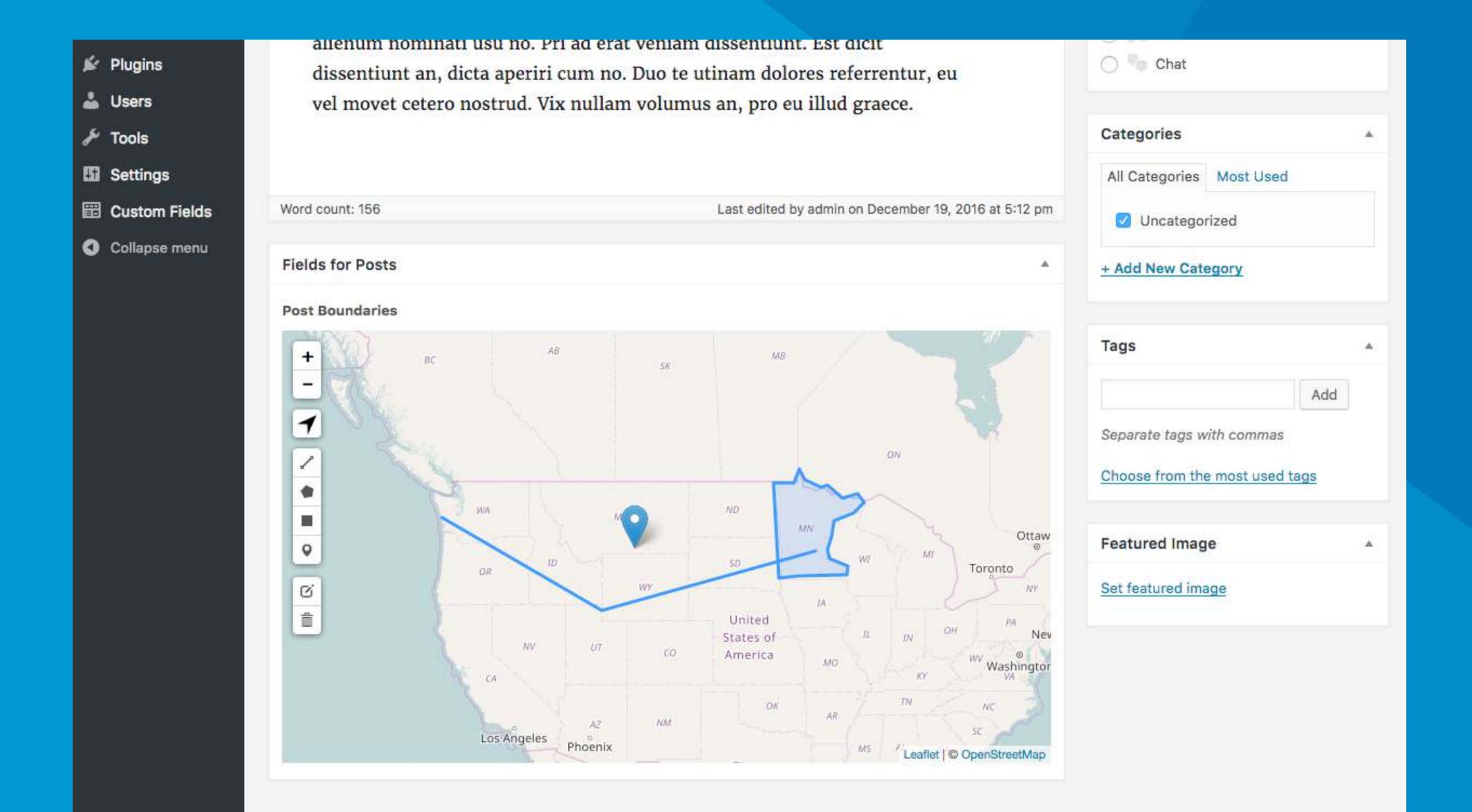
Plugin: WP-GeoMeta (not -lib)



Brilliant Geocoder for Gravity Forms



GeoMeta for ACF



- 1. WordPress is great
- 2. WP-GeoMeta-Lib Library for working w/ spatial in WP
- 3. I should write a WordPress Plugin with WP-GeoMeta-Lib



Questions



https://github.com/BrilliantPlugins/wp-geometa-lib

