# Heartbeat API:

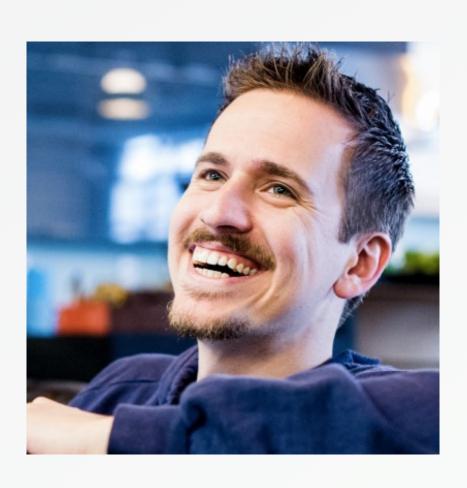
your data simply in realtime.

WordCamp NYC 2014

Mike Schroder (DH-Shredder)
@GetSource - <a href="http://www.getsource.net">http://www.getsource.net</a>



### Who Am I?



- Mike Schroder, a.k.a DH-Shredder, a.k.a. @GetSource
- Third Culture Kid, enjoy
   Coffee & Sailing
- WordPress 3.9 Co-Lead and co-author of Heartbeat API
- Happy DreamHost Employee



### WAT is Heartbeat API?

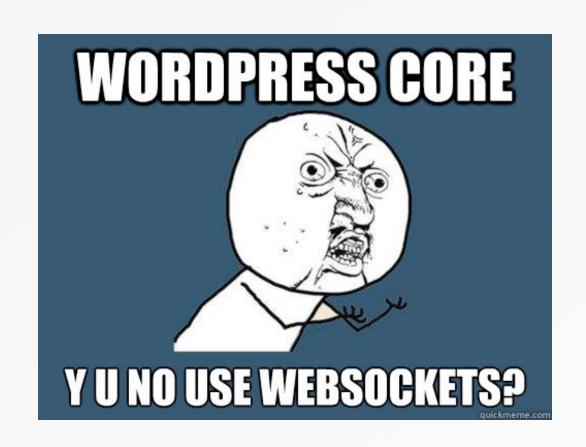


# Realtime\* Bidirectional communication via AJAX.

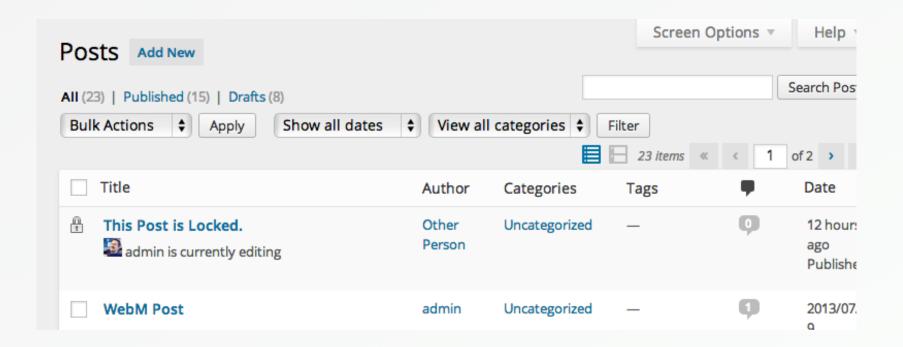


# 15-30 seconds by default. 120 seconds when inactive.

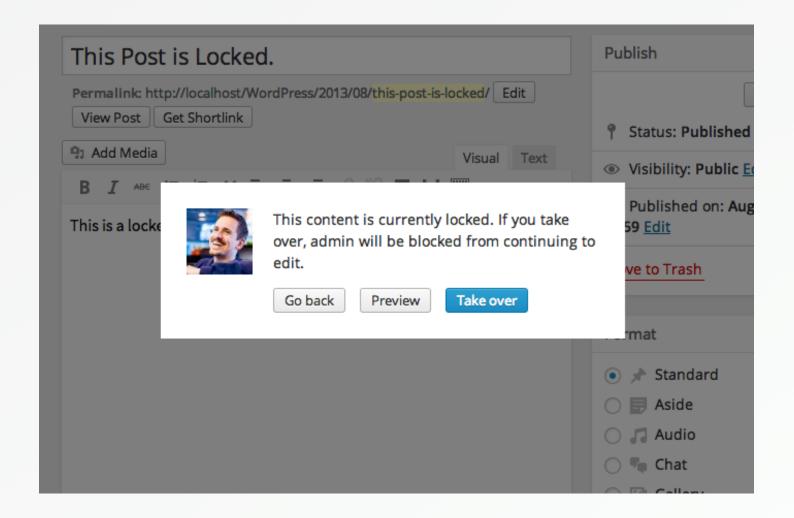




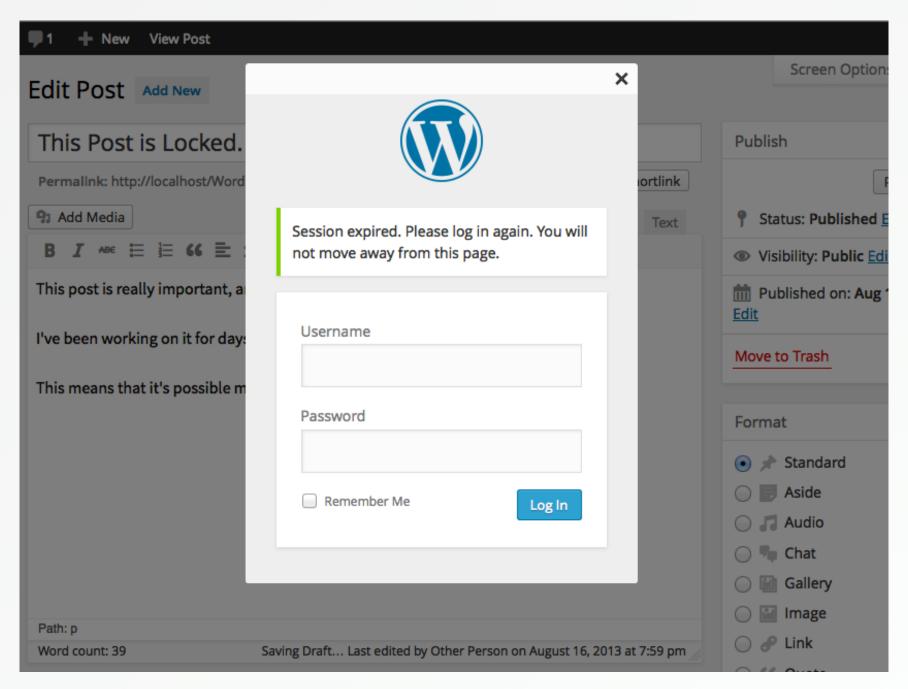




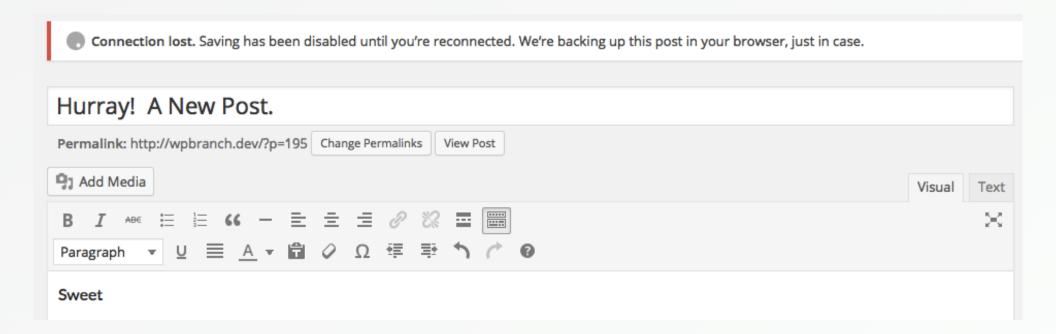






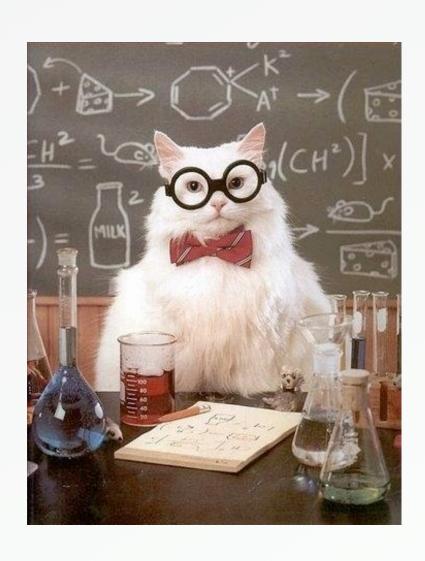






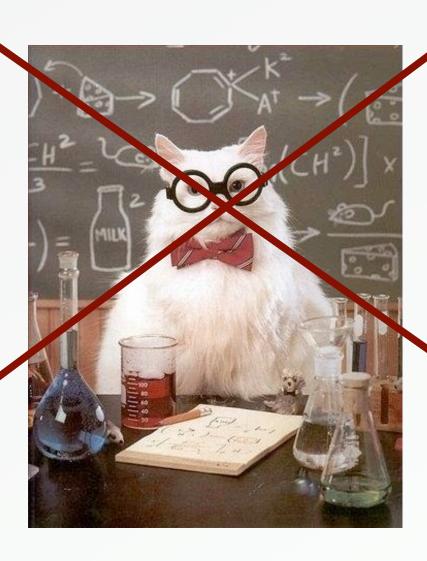


#### EXPERIMENTAL WARNING!





### EXPERIMENTAL WARNING!





# No longer experimental as of WordPress 3.9



# JS Trigger Flow

- -> heartbeat-send
- -> heartbeat-tick
- -/> heartbeat-error

(wp-includes/js/heartbeat.js)



## PHP Filter/Action Flow

- -> heartbeat\_received
  - -> heartbeat\_send
- -> heartbeat\_tick (action)

(wp-admin/includes/ajax-actions.php)



#### Direct from core.

```
if ( ! empty( $_POST['data'] ) ) {
$data = (array) $_POST['data'];
$response = apply_filters( 'heartbeat_received', $response,
                            $data, $screen_id );
$response = apply_filters( 'heartbeat_send',
                        $response, $screen_id );
do_action( 'heartbeat_tick', $response, $screen_id );
// Send the current time according to the server
$response['server_time'] = time();
wp_send_json($response);
```





#### Tesla Model S JSON API

#### Documentation Traffic Inspector

Honk the horn once.	Parameters	
Name	Description	Details
id	The ID number of the car	number, required



# wp-json/honk\_horn custom REST endpoint demo



Current Month		Today	
Earnings	\$0.00	Earnings	\$0.00
Sales	o	Sales	o
Last Month		Totals	
Earnings	\$0.00	Total Earnings	\$0.00



## This is just a start.



### Resources!

- getsource.net/2014/01/heartbeat-api-wordcamp-phoenix/
  - gist.github.com/getsource/6254495
- core.trac.wordpress.org/browser/tags/3.9/src/wp-includes/js/heartbeat.js
- pippinsplugins.com/using-the-wordpress-heartbeat-api/

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