



@jrtashjian

WordPress Cron API

WordPress

~~Cron~~ API

What's Cron?

* * * * * /path/to/command

* * * * * /path/to/command



day of the week

* * * * * /path/to/command



day of the week

month

* * * * * /path/to/command



day of the week



month



day of the month

* * * * * /path/to/command



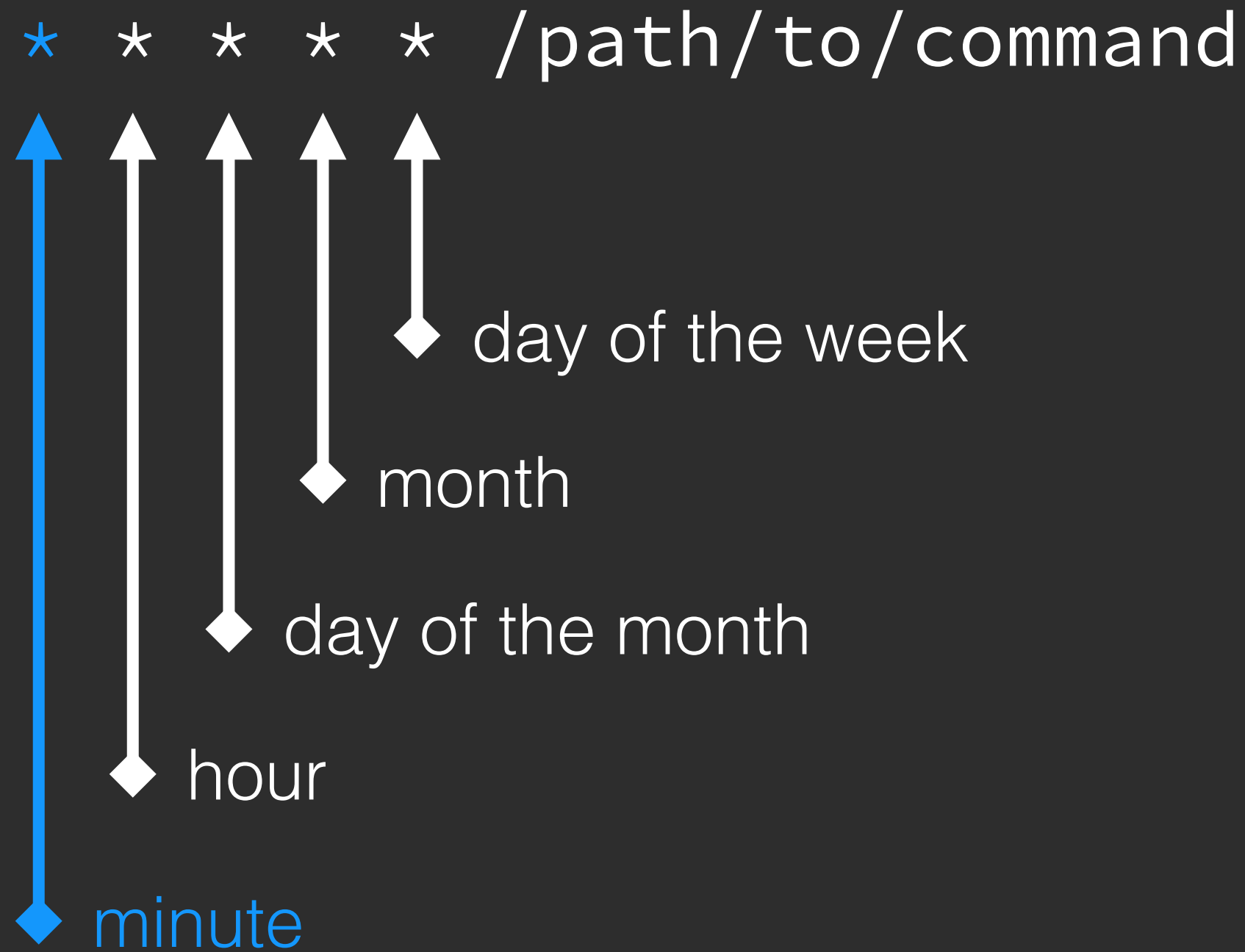
day of the week

month

day of the month



hour



```
# run once a year  
0 0 1 1 * /path/to/command
```

```
# run once a year  
@yearly /path/to/command  
@annually /path/to/command
```

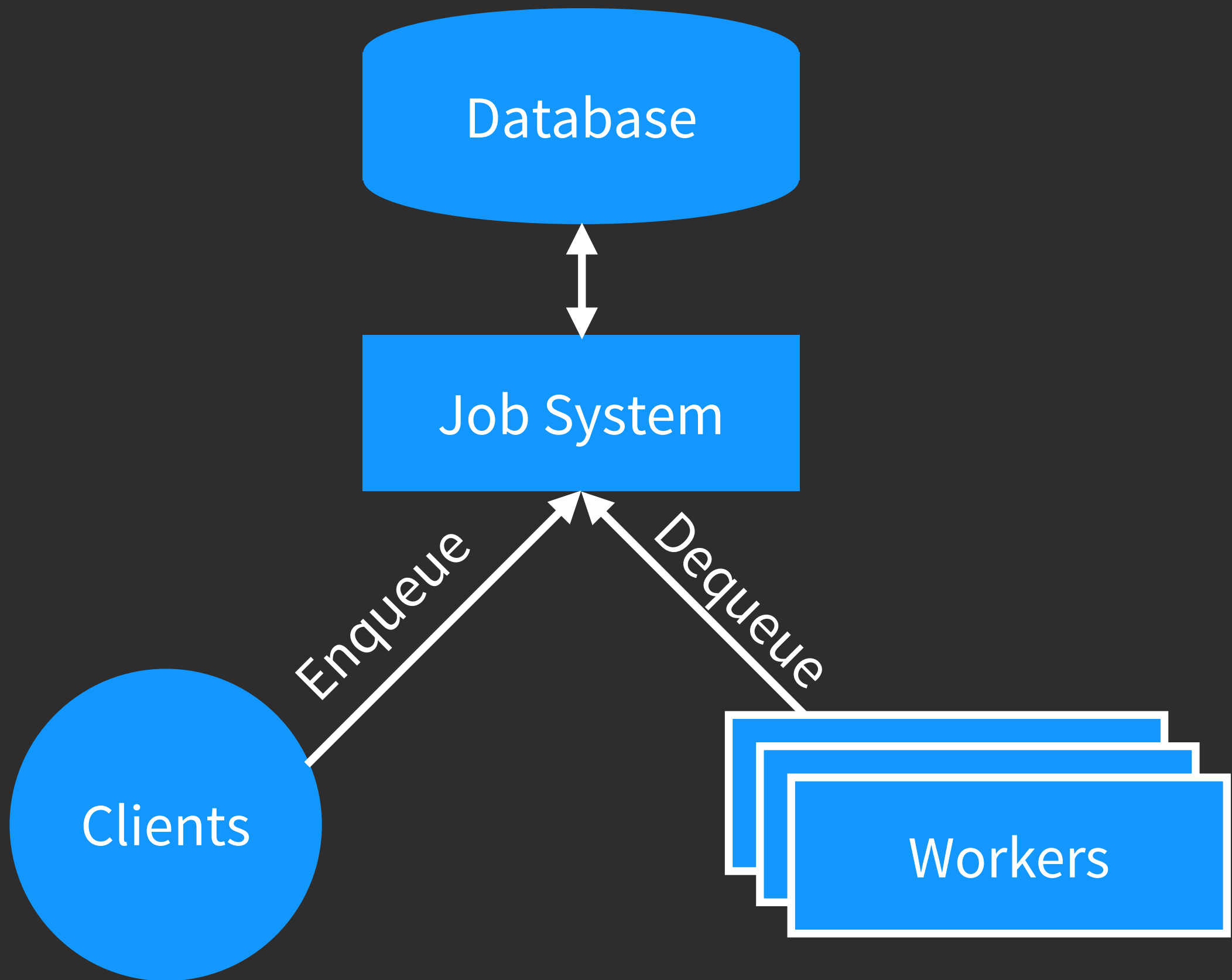
@monthly /path/to/command

@weekly /path/to/command

@daily /path/to/command

@hourly /path/to/command

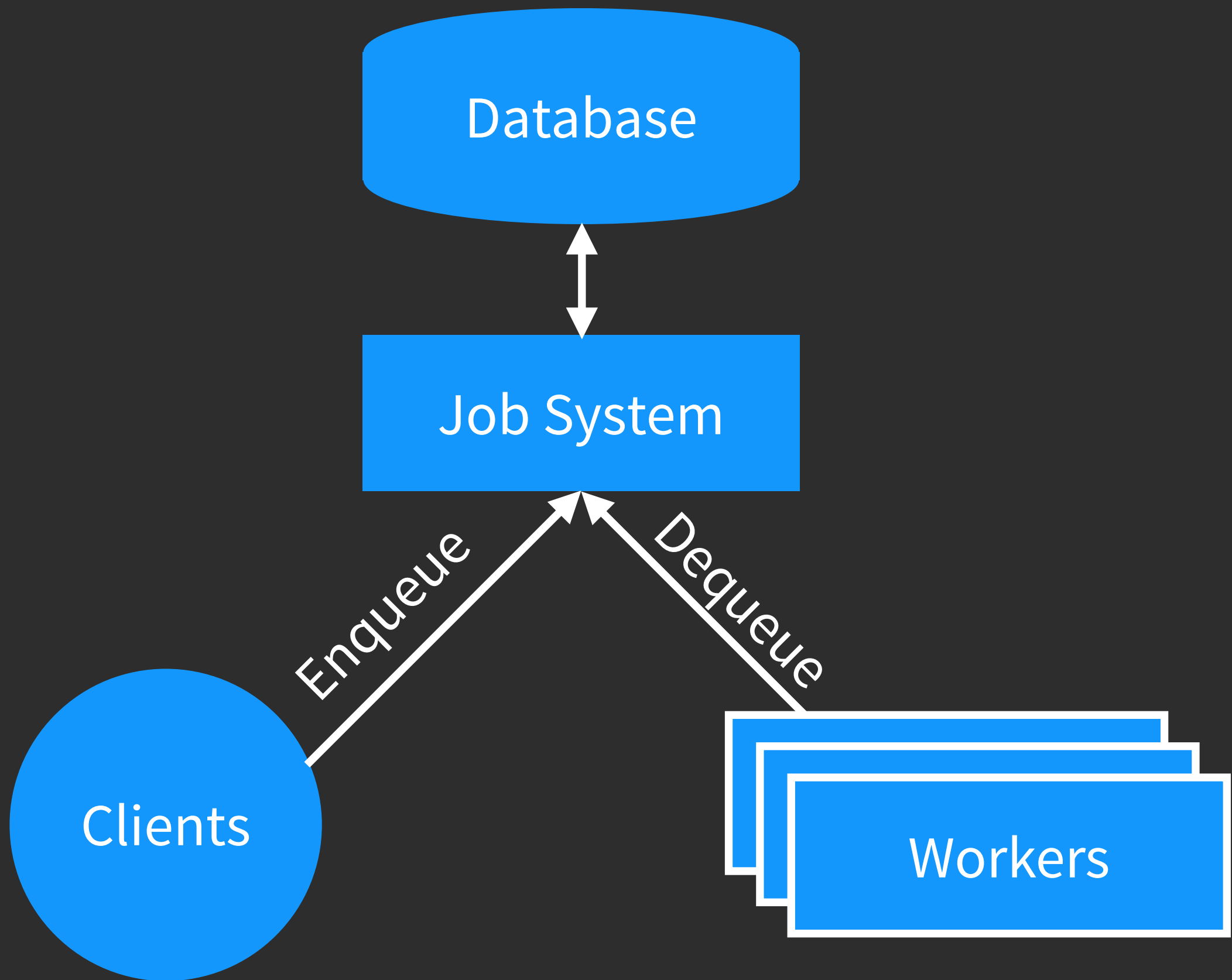
Asynchronous Jobs

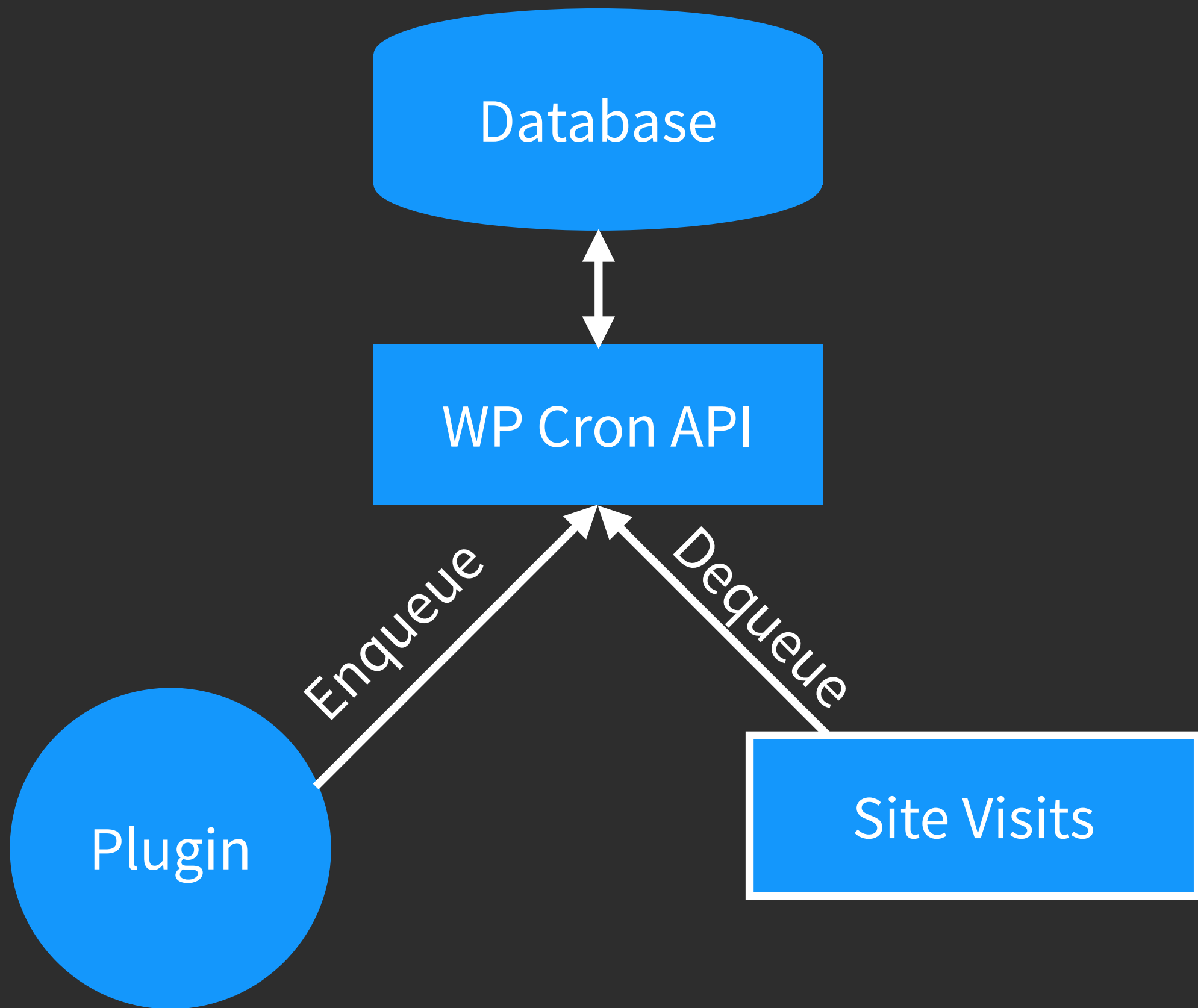


AUTOMATIC



WordPress Cron API





WordPress

~~Cron~~ API

Using the API

2 Main Functions

- `wp_schedule_event($timestamp, $recurrence, $hook, $args)`
- `wp_schedule_single_event($timestamp, $hook, $args)`

2 Main Functions

- wp_schedule_event(**\$timestamp**, \$recurrence, \$hook, \$args)
- wp_schedule_single_event(**\$timestamp**, \$hook, \$args)

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Custom Schedule

Get Schedules

```
<?php wp_get_schedules(); ?>
Array
(
    [hourly] => Array
        (
            [interval] => 3600
            [display] => Once Hourly
        )
    [twicedaily] => Array
        (
            [interval] => 43200
            [display] => Twice Daily
        )
    [daily] => Array
        ...
)
```

Create a Schedule

```
<?php

add_filter( 'cron_schedules', 'cron_add_weekly' );

function cron_add_weekly( $schedules ) {
    $schedules['weekly'] = array(
        'interval' => 60 * 60 * 24 * 7, // 604800
        'display' => __( 'Once Weekly' )
    );
}
```

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}
```

Recurring Event

Recurring Event

```
<?php
```

```
register_activation_hook( __FILE__, 'prefix_activation' );
```

```
function prefix_activation() {  
    wp_schedule_event( time(), 'hourly', 'prefix_hourly_event_hook' );  
}
```

```
add_action( 'prefix_hourly_event_hook', 'prefix_do_this_hourly' );  
function prefix_do_this_hourly() {  
    // do something.  
}
```

Recurring Event

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function prefix_do_this_hourly() {  
    // do something.  
}
```

Single Event

Single Event

```
<?php
```

```
add_action( 'prefix_single_event', 'prefix_single_event ');  
function prefix_single_event() {  
    // do something  
}
```

```
wp_schedule_single_event( time() + 3600, 'prefix_single_event' );
```

Single Event

```
<?php
```

```
add_action( 'prefix_single_event', 'prefix_single_event ');  
function prefix_single_event() {  
    // do something  
}
```

```
wp_schedule_single_event( time() + 3600, 'prefix_single_event' );
```

Single Event

with arguments

```
<?php
```

```
add_action( 'prefix_single_event', 'prefix_single_event', 10, 3 );  
function prefix_single_event( $arg1, $arg2, $arg3 ) {  
    // do something  
}
```

```
wp_schedule_single_event( time() + 3600, 'prefix_single_event',  
array( $arg1, $arg2, $arg3 ) );
```

How it works

1. A visitor requests a page on your site.
2. `wp_cron()` is called
3. `spawn_cron()` is called
4. One event processed, then removed from queue

Strengths

Weaknesses

When to use it

**Getting More
Accurate**

```
define( 'DISABLE_WP_CRON', true );
```

```
0 * * * * wget http://yourwebsite.com/wp-  
cron.php >& /dev/null
```

WP-CLI

<http://wp-cli.org>

wp cron command

- event list
- event delete
- event schedule
- event run
- schedule list

wp cron event list

```
>> wp cron event list
```

hook	next_run_gmt	next_run_relative	recurrence
wp_version_check	2014-10-11 17:50:37	2 hours 13 minutes	12 hours
wp_update_plugins	2014-10-11 17:50:37	2 hours 13 minutes	12 hours
wp_update_themes	2014-10-11 17:50:37	2 hours 13 minutes	12 hours
wp_scheduled_delete	2014-10-11 18:42:25	3 hours 5 minutes	1 day
wp_maybe_auto_update	2014-10-11 19:50:00	4 hours 12 minutes	12 hours

wp shell



```
>> wp shell
```

```
wp> prefix_do_this_hourly();
```

```
wp> $arg1 = "first value";
```

```
wp> $arg2 = "second value";
```

```
wp> $arg3 = "third value";
```

```
wp> prefix_single_event( $arg1, $arg2, $arg3 );
```

Contributing

<https://make.wordpress.org/core/components/cron-api/>

Questions?



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