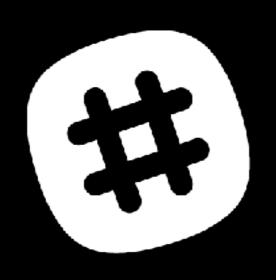
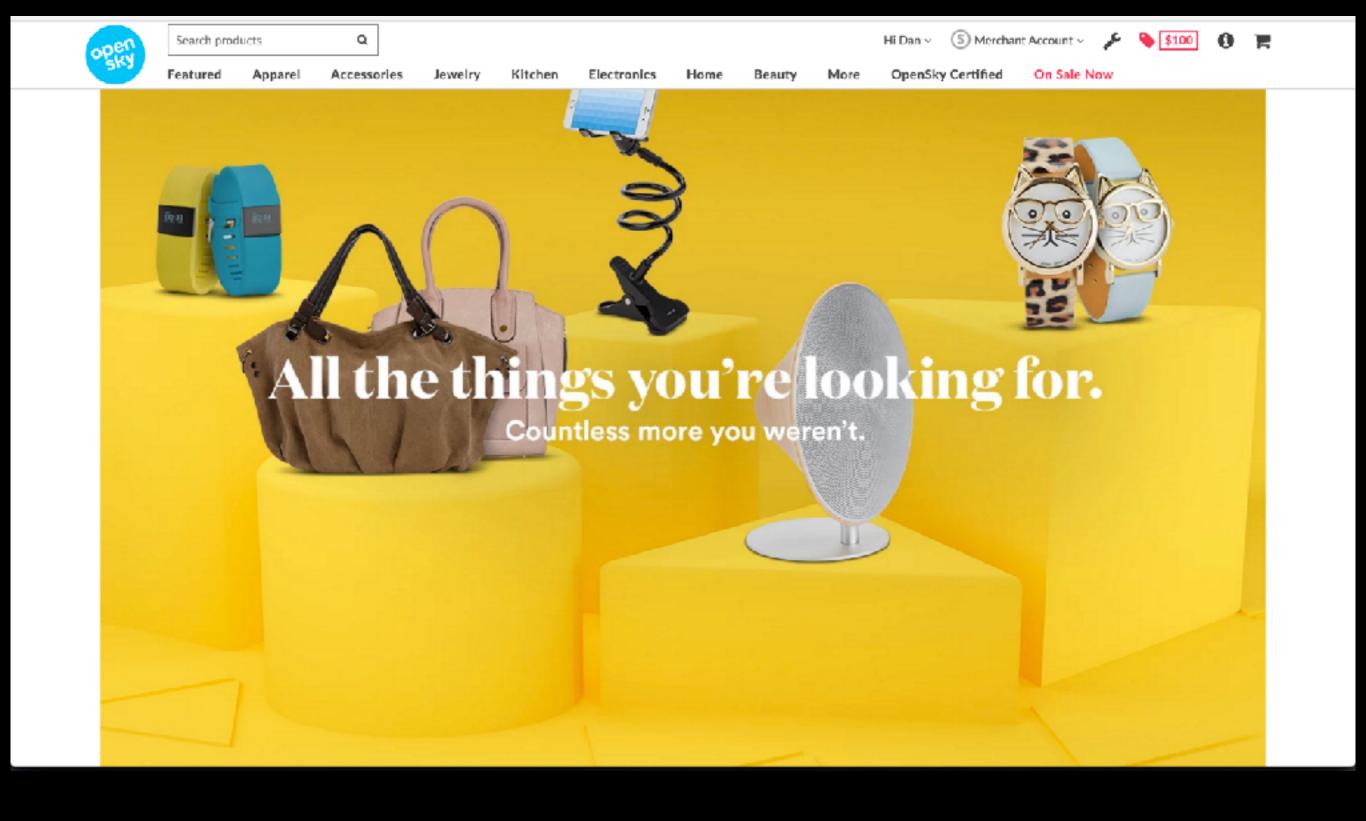
# Building a Slack bot in PHP







# OpenSky.com

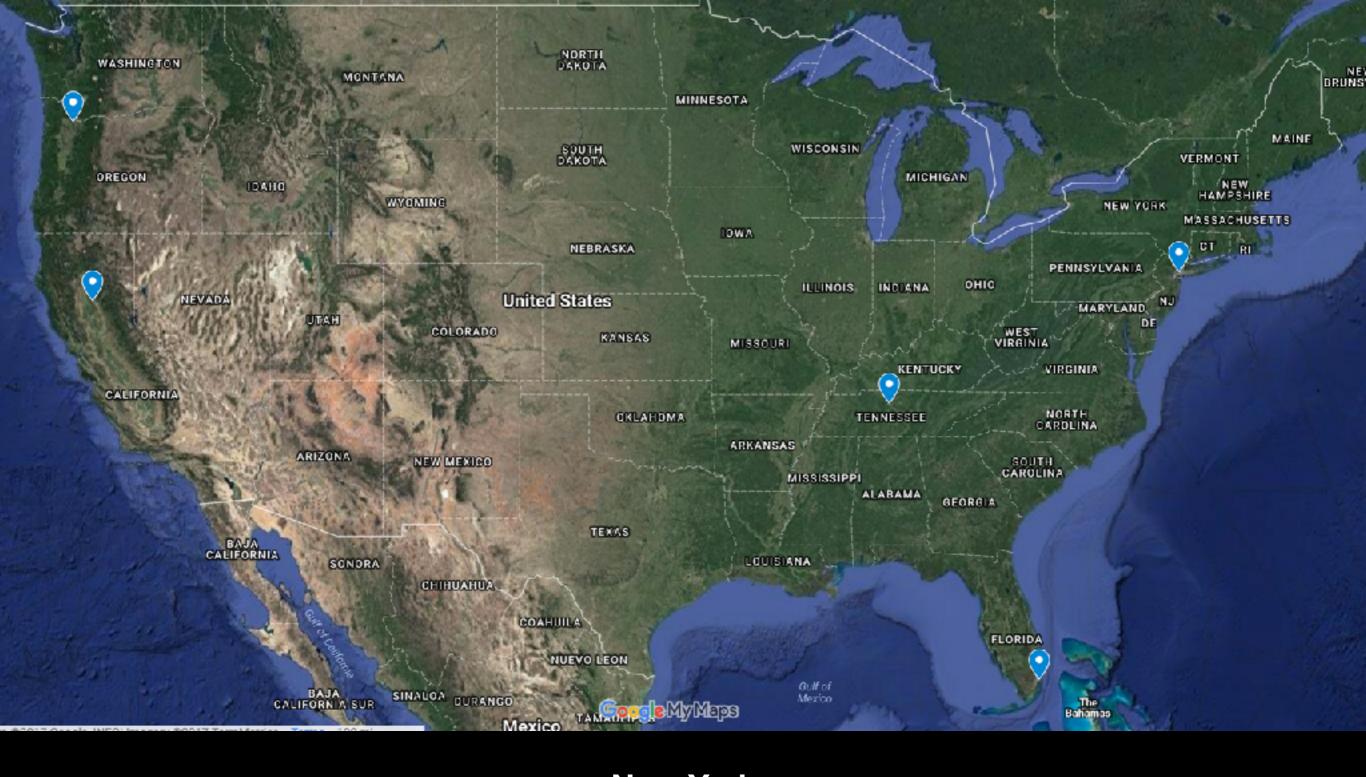






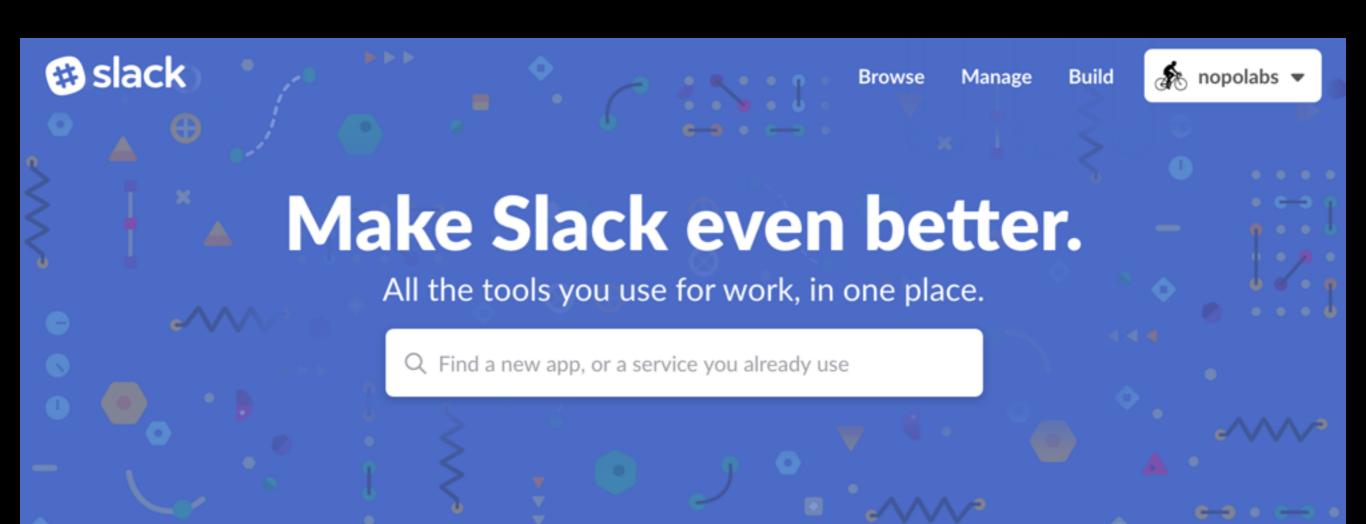






New York
Nashville
Chico
Portland
Miami
and Bucharest





### **Staff Picks**

Featured

Complete tasks in a click

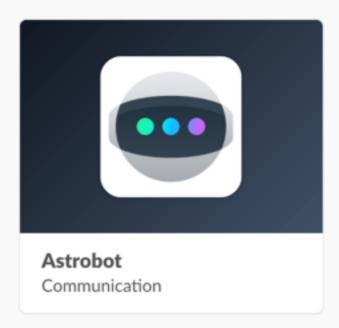
New & Noteworthy

Plug into the Grid

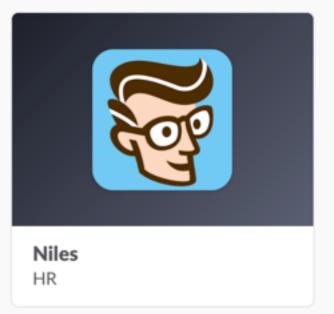
**Brilliant Bots** 

### **Categories**

Bots







# Slack Developer Kit for Hubot

So you want to get started with ChatOps using Hubot and Slack? We've got you covered. Slack Developer Kit for Hubot is an adapter that connects your Hubot scripts to your Slack team, giving you and your fellow DevOps engineers a new best friend: your very own ChatOps bot.

# Requirements and Installation

Of course, you'll need Node.js, as well as NPM. NPM has a great tutorial to help you get started if you don't have these tools installed. Yeoman is also a great tool for getting started on your first Hubot.

To install, you will first want to create a new Hubot project. The simplest way is to use your computer's terminal app to invoke Yeoman.

```
npm install -g yo generator-hubot
```

This will install the Yeoman Hubot generator. Now we can create that Hubot project:

```
mkdir my-awesome-hubot && cd my-awesome-hubot
yo hubot --adapter=slack
```



**Dan Revel TM** 12:00 PM #10873



kip APP 12:00 PM

PR #10873 throw an exception if price not found



**Dan Revel ™** 12:01 PM 104189416



kip APP 12:01 PM

https://admin.opensky.com/admin/orders/104189416/detail



### Bryce Stevens 1:41 PM

kip what envs are reserved?



kip APP 1:42 PM

dev1 has feature/group-adsource-placements and is reserved by justin.unterreiner until 2017-07-14 05:13:41

dev2 has feature/capture-orders-sooner and is reserved by drevel until 2017-07-14 05:50:51

dev3 has feature/orders-page-cleanup and is reserved by octavian.aanei until 2017-07-13 21:00:00

dev4 has fix/bis-mark-supplier-orders-as-processing and is FREE

dev5 has feature/OPENSKY-39673-marketing-join-event-for-pixel and is FREE

dev6 has fix/boost-email-error and is FREE

dev7 has production and is reserved by dana until 2017-07-14 02:08:36

dev8 has feature/checkout-v5-frontend and is reserved by dana until 2017-07-22 00:00:00

dev9 has production and is FREE

dev10 has feature/group-adsource-placements and is FREE

dev11 has fix/OPENSKY-39236-buy-box-pricing-after-all-selected and is FREE

dev12 has fix/ignore-deleted-shipments and is reserved by drevel until 2017-07-14 05:54:00



### Bryce Stevens 1:42 PM

kip reserve dev5



kip APP 1:42 PM

Reserved dev5 for bryce.stevens.

dev5 has feature/OPENSKY-39673-marketing-join-event-for-pixel and is reserved by bryce.stevens until 2017-07-14 08:42:11



Bryce Stevens 1:42 PM

kip deploy #10431 to dev5



kip APP 1:42 PM

Deploying #10431 to dev5



Bryce Stevens 1:55 PM pdq push #10809



kip APP 1:55 PM

O @ccovey #10840 OPENSKY-39654 Tests: W Add Groupon Item for Cash Sales.

1 @drevel #10841 OPENSKY-39660 Tests: PaymentGatewayIntegrationTest-should-not-fail



2 @bryce.stevens #10809 OPENSKY-38366 Tests: FOR OPENSKY-38366 - Reimplement Price Lock UI on OpenSky (not BX)



Cody Covey 1:58 PM pdq next



kip APP 1:58 PM

0 @drevel #10841 OPENSKY-39660 Tests: PaymentGatewayIntegrationTest-should-not-fail

1 @bryce.stevens #10809 OPENSKY-38366 Tests: FOR OPENSKY-38366 - Reimplement Price Lock UI on OpenSky (not BX)



Dan Revel TM 2:07 PM merging #10841



kip APP 2:07 PM

PR #10841 PaymentGatewayIntegrationTest-should-not-fail



Dan Revel TM 2:09 PM pdq next

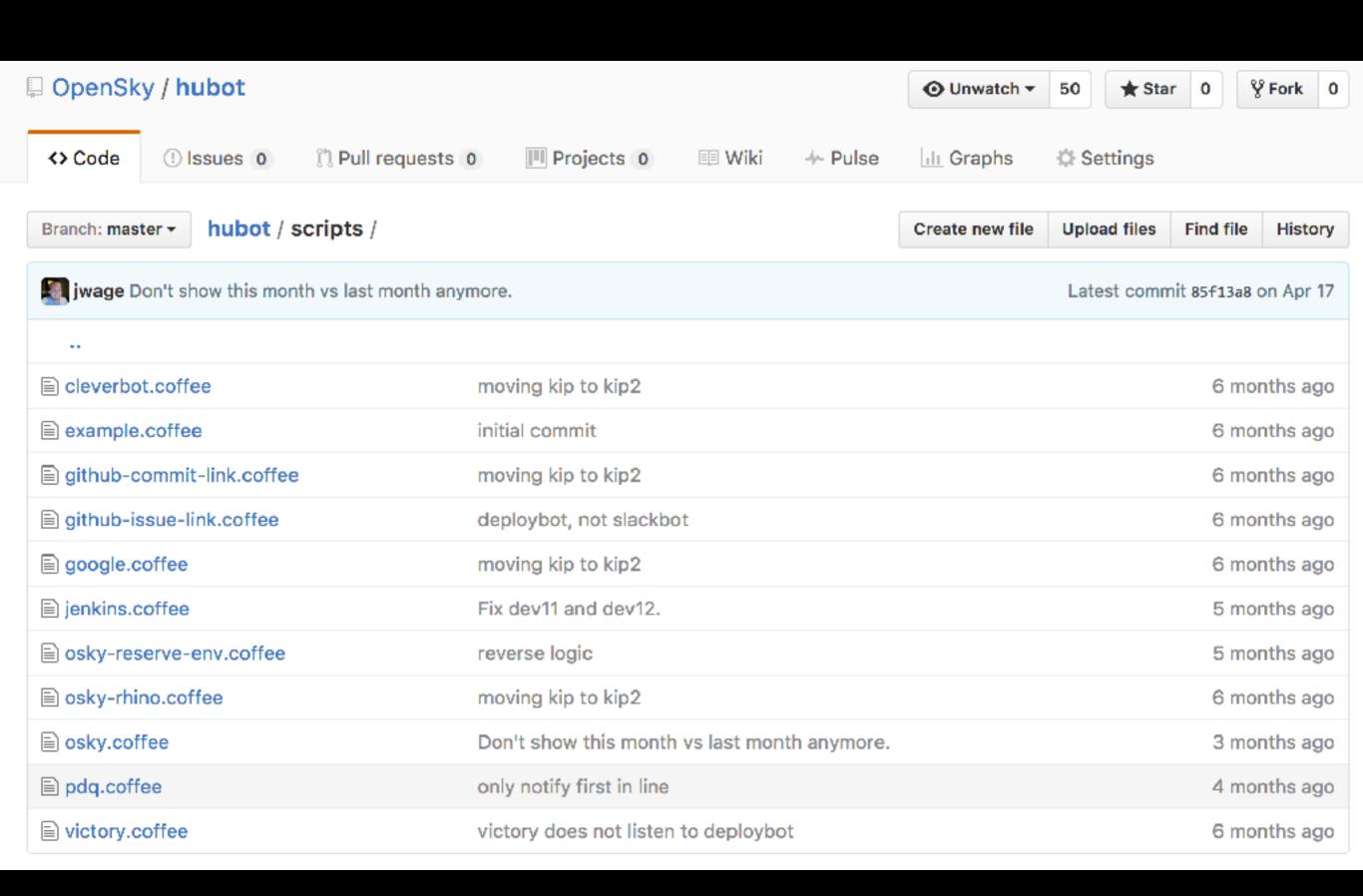


kip APP 2:09 PM



O @bryce.stevens #10809 OPENSKY-38366 Tests: W OPENSKY-38366 - Reimplement Price Lock UI on OpenSky (not BX)

First generation woes



- First generation woes
- Callback Hell

```
whatEnvsAreReserved = (msg) ->
 getRef = _.wrapCallback (status, callBack) ->
   env = status.env
   url = refTagUrl(env)
    robot.http(url).get() (err, res, body) ->
     if err
        callBack err, null
     else
        ref = extractRefTag(body)
        callBack null, [env, ref, status]
 format = (args) ->
    [env, ref, status] = args
   if status.isReserved()
      "`#{env}` has `#{ref}` and is reserved by `#{status.reservedBy}` until `#{status.reservedUntil}`"
   else
      "`#{env}` has `#{ref}` and is FREE"
 _(envs)
  .map(reservations.status)
  .map(getRef)
  .parallel(20)
  .map(format)
  .toArray (lines) ->
   msg.reply "\n"+lines.join("\n")
```

- First generation woes
- Callback Hell
- Siloed knowledge



- First generation woes
- Callback Hell
- Siloed knowledge
- Not PHP





Support and Discussion

@SlackAPI

Platform Blog

Slack Engineering Blog

Platform Roadmap

Register As a Developer

Join a Partner Briefing

**BotMan** 

A framework agnostic PHP library that is designed to simplify the task of developing innovative bots.

PHP

Bot Users

Documentation

- Message Buttons
- Real Time Messaging API

Tutorials

You

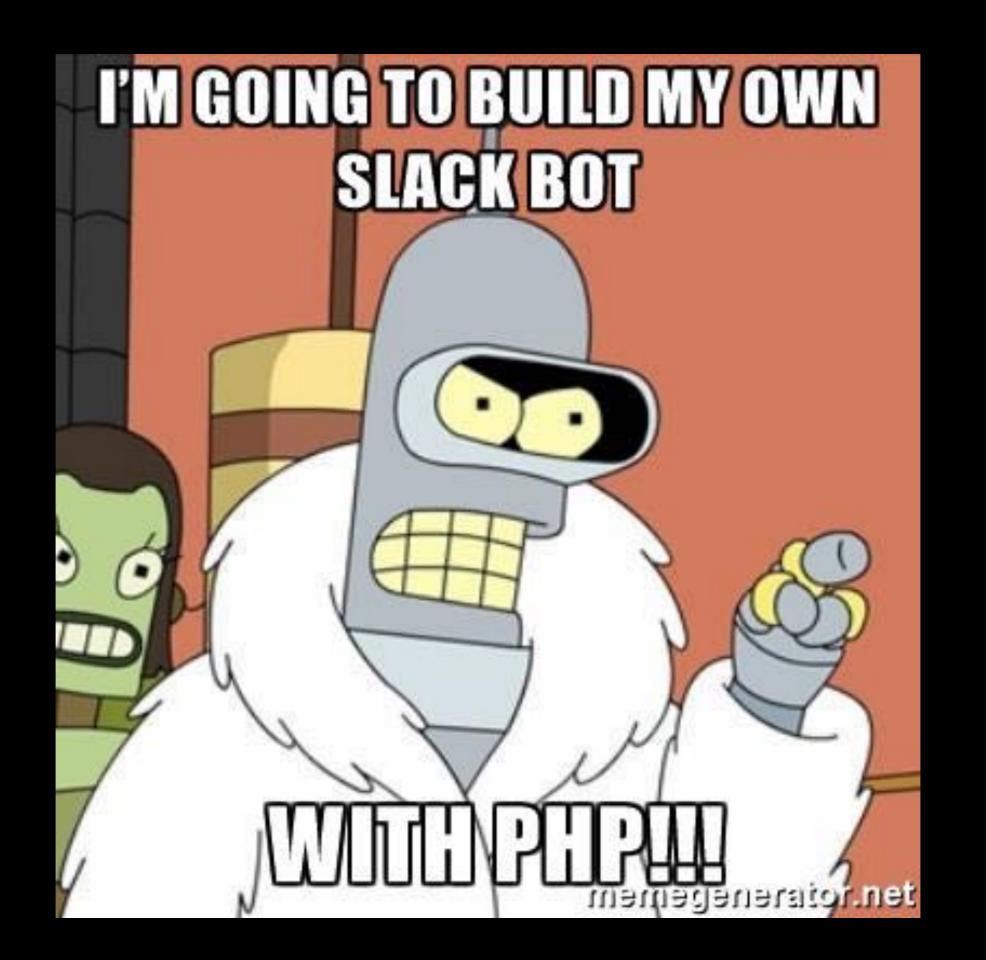
Web API

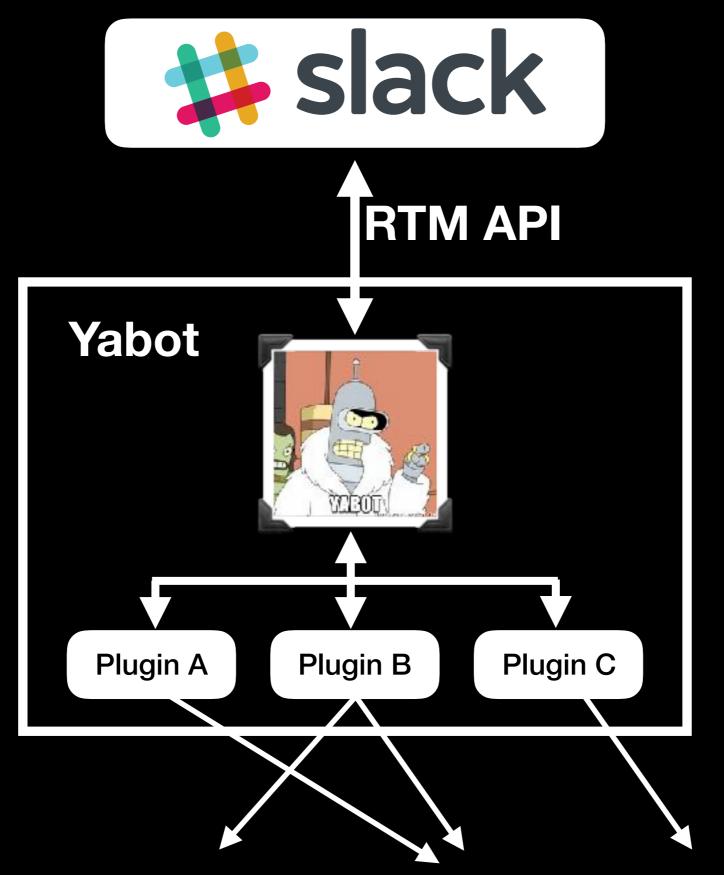
slack-client

A simple interface for interacting with Slack's Web & RTM APIs using PHP.

PHP

- Web API
- Real Time Messaging API





Services (MySQL, Mongo, GitHub, JIRA, ...)

```
<?php
namespace Nopolabs\Yabot\Plugin;
use Nopolabs\Yabot\Message\Message;
interface PluginInterface
    public function help() : string;
    public function status() : string;
    public function init(string $pluginId, array $params);
    public function getPriority() : int;
    public function getPrefix() : string;
    public function handle(Message $message);
```

# A simple message is self explanatory:

```
"type": "message",
    "channel": "C2147483705",
    "user": "U2147483697",
    "text": "Hello world",
    "ts": "1355517523.000005"
}
```



dan 5:32 PM messagelog start

@everyone let's meet in #random



dan 5:38 PM @dan is in #general

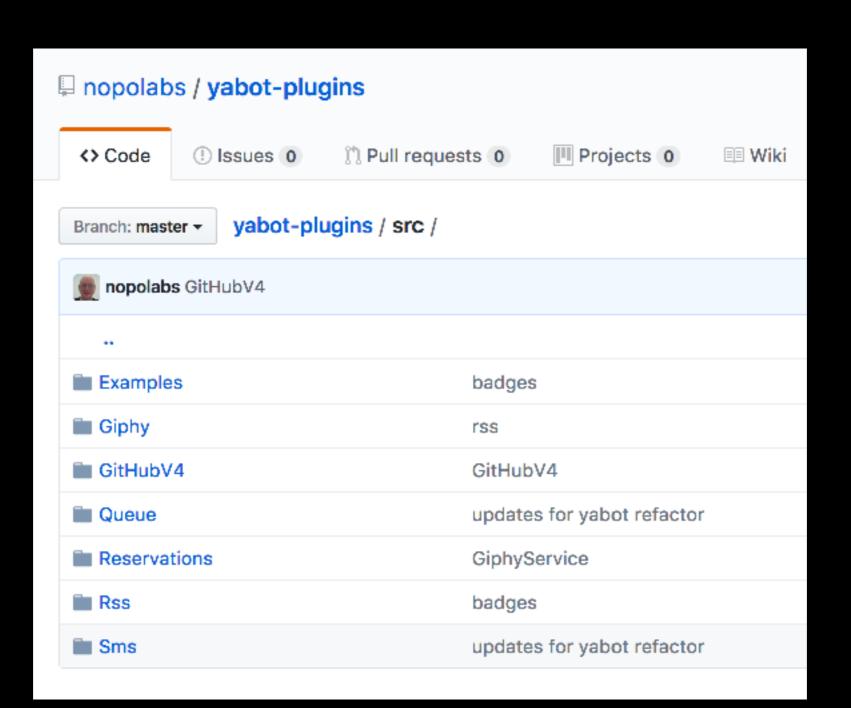
```
"type": "message",
 "channel": "C0E9AJ2MS",
  "user": "U0E9GD895",
 "text": "<!everyone> let's meet in <#C0E9CCWCV|random>",
 "ts": "1500337961.779747",
 "source_team": "T0E9GC15L",
  "team": "T0E9GC15L"
},
 "type": "message",
 "channel": "C0E9AJ2MS",
 "user": "U0E9GD895",
 "text": "<@U0E9GD895> is in <#C0E9AJ2MS|general>",
 "ts": "1500338316.848301",
  "source_team": "T0E9GC15L",
  "team": "T0E9GC15L"
```

Plugins built using PluginTrait provide a default configuration which may be overridden in config.php, e.g.:

```
'plugin.help' => [
    'priority' => PluginManager::DEFAULT_PRIORITY, // optional, higher priority is dispatched sooner
    'prefix' => PluginManager::AUTHED_USER_PREFIX, // optional, string
    'isBot' => false,
                                                   // optional, true, false, or null
                                                   // optional, array of strings
    'channels' => [],
    'users' => [],
                                                   // optional, array of strings
    'matchers' => [
        'yabotHelp' => [
            'isBot' => null,
                                                      // optional, true, false, or null
            'channels' => [],
                                                      // optional, array of strings
            'users' => [],
                                                      // optional, array of strings
            'pattern' => "/^help (?'topic'\\w+)\\b/", // pattern applied by preg_match()
            'method' => 'help',
                                                    // method called to handle accepted messages
        ],
    ],
],
```

# Matcher shorthand syntax:

```
// assuming: 'help' => "/^help (?'topic'\\w+)\\b/"
public function help(MessageInterface $msg, array $matches)
{
    $topic = $matches[1];
    $msg->reply("you want help with $topic");
}
```



```
composer create-project --stability dev nopolabs/yabot-template my-bot
# allow composer to remove existing .git history
cd my-bot
# create your own git repository for your bot
cp config.example.php config.php
vi config.php
# replace SLACK-TOKEN-GOES-HERE with your slack token
php yabot.php
# ... profit
```

```
<?php
namespace MyPackage;
use Nopolabs\Yabot\Message\Message;
use Nopolabs\Yabot\Plugin\PluginInterface;
use Nopolabs\Yabot\Plugin\PluginTrait;
use Psr\Log\LoggerInterface;
class HelloPlugin implements PluginInterface
    use PluginTrait;
    public function __construct(LoggerInterface $logger = null)
        $this->setLog($logger);
        $this->setConfig([
            'hello' => 'hello',
            'matchers' => ['hello' => "/^hello\\b/"],
        1);
    public function hello(Message $msg)
        $hello = $this->get('hello');
        $msg->reply($hello.' <@'.$msg->getUsername().'>');
H
```

### yabot.php

```
<?php
use Nopolabs\Yabot\ErrorExceptionHandler;
use Nopolabs\Yabot\YabotContainer;
require __DIR__.'/vendor/autoload.php';
|set_error_handler([ErrorExceptionHandler::class, 'handler']);
$options = getopt("f:h");
if (isset($options['h'])) {
    exit('Usage: php yabot.php [-h] [-f configFile]'.PHP_EOL);
$configFile = $options['f'] ?? __DIR__.'/config.php';
$config = require $configFile;
echo "Using $configFile\n";
$container = new YabotContainer();
$container->load(__DIR__.'/config/plugins.yml');
$container->overrideParameters($config);
$yabot = $container->getYabot();
$yabot->run();
```

### config.php

```
<?php
return [
    'slack.token' => 'SLACK_TOKEN_GOES_HERE',
    'storage.dir' => 'storage',
    'log.file' => 'logs/bot.log',
    'log.name' => 'bot',
    'log.level' => 'DEBUG',
    'guzzle.config' => [
        'timeout' => 5,
    ],
    'plugin.hello' => [
        'hello' => 'bonjour',
    ],
];
```

# config/plugins.yml

```
| plugin.hello:
| class: MyPackage\HelloPlugin
| arguments:
| - '@logger'
| tags:
| - { name: yabot.plugin }
```

```
public function getStatuses(array $keys) : array
   $promises = [];
    $promises['pulls'] = $this->getGitHub()->getPulls();
    foreach ($keys as $key) {
        $promises[$key] = $this->getRefTag($key);
   $results = settle($promises)->wait();
   $pulls = $this->decodePullsResult($results['pulls']);
   $statuses = [];
    foreach ($keys as $key) {
        $refTag = $this->decodeRefTagResult($results[$key]);
        $pull = $this->findPull($pulls, $refTag);
        $statuses[] = $this->formatStatus($key, $refTag, $pull);
    return $statuses;
```

```
whatEnvsAreReserved = (msg) ->
 getRef = _.wrapCallback (status, callBack) ->
   env = status.env
   url = refTagUrl(env)
    robot.http(url).get() (err, res, body) ->
     if err
        callBack err, null
     else
        ref = extractRefTag(body)
        callBack null, [env, ref, status]
 format = (args) ->
    [env, ref, status] = args
   if status.isReserved()
      "`#{env}` has `#{ref}` and is reserved by `#{status.reservedBy}` until `#{status.reservedUntil}`"
   else
      "`#{env}` has `#{ref}` and is FREE"
 _(envs)
  .map(reservations.status)
  .map(getRef)
  .parallel(20)
  .map(format)
  .toArray (lines) ->
   msg.reply "\n"+lines.join("\n")
```

























Search GitHub

Pull requests Issues Marketplace Gist







Repositories 45 Following 6 Stars 43 Followers 7

#### Pinned repositories

Customize your pinned repositories

#### ≡ yabot

Overview

Yet Another Bot (this time in php)

■ PHP ★ 2

#### ≡ yabot-plugins

This is a collection of plugins for yabot

PHP

# **Dan Revel** nopolabs

Add a bio

#### = yabot-template

Project template for building a slack bot using nopolabs/yabot

PHP

#### = react-aware-guzzle-client

A GuzzleHttp\Client that plays nicely with React

PHP

#### Nopo Labs

- Portland, OR USA
- http://nopolabs.com

#### **≡** mock-with-expectations

Helper trait for phpunit testing

PHP

#### ≡ slowly-php

A test service providing slow http responses

PHP

#### **Organizations**

