

PHP OVER ERLANG

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THE JOURNEY

1. What's **PHP**?
2. **BEAM** and, why **PHP**?
3. **PHP** over **Erlang** (a.k.a. ephp)

1.

WHAT'S PHP?



WHAT'S PHP?

Some features

- ▶ “Accepted” syntax (yes, Java and C like)
- ▶ Easy to understand and very simple (arrays are everything)
- ▶ A lot of examples. Working examples. Some of them:



- ▶ Most of the servers in Internet run PHP: **Server Side Programming Language**



WHAT'S PHP?

Hello world code example

You can think this is a typical “hello world!” example for PHP:

```
<?php print "Hello world!" ?>
```

Actually, it's NOT. You can use this one instead:

```
Hello world!
```

PHP is a **template language**... on steroids!

WHAT'S PHP?

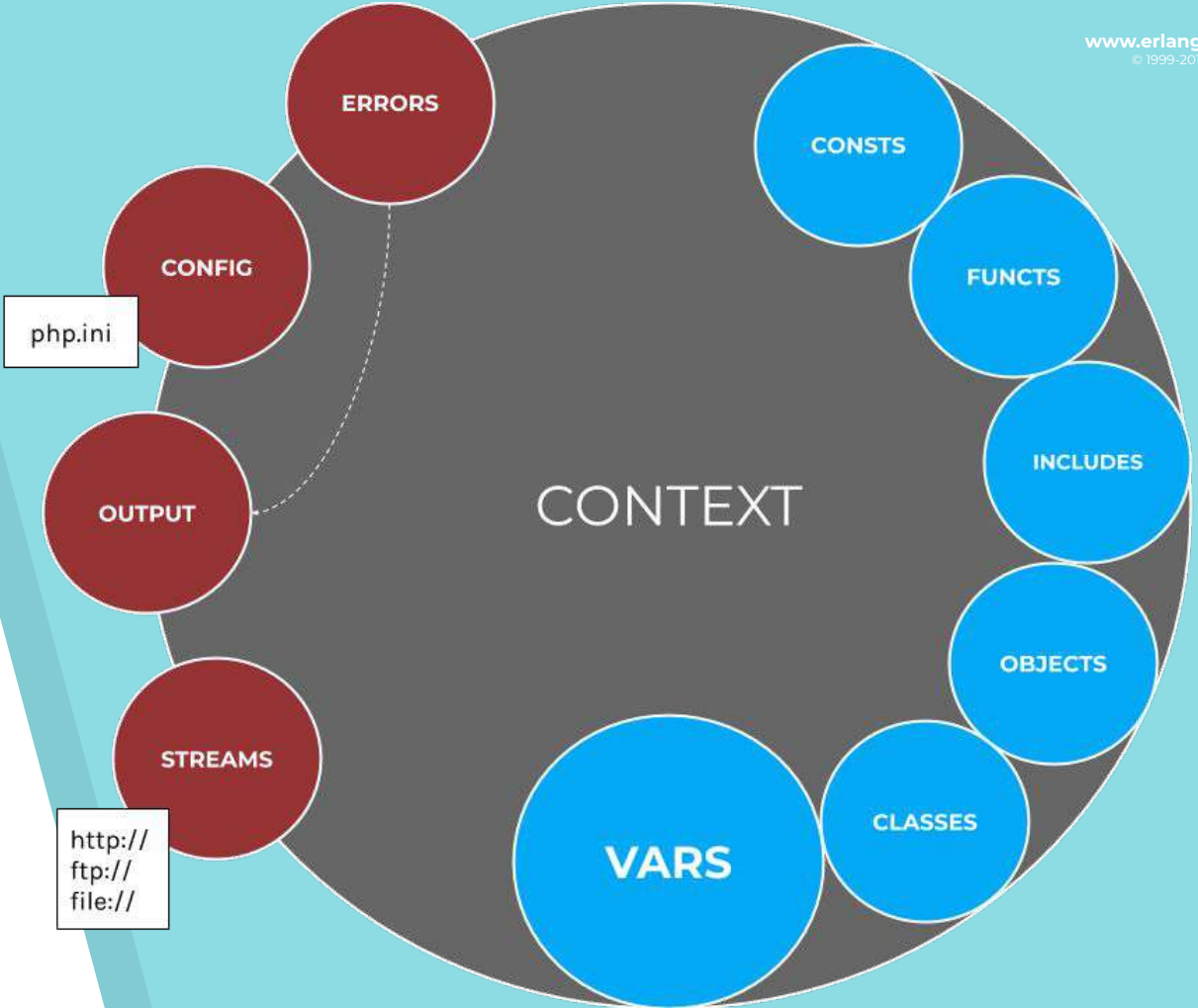
Another code example

```
<?php

$fruits = [
    ... "banana" => [
        ... "es" => "plátano",
        ... "en" => "banana",
        ... "nl" => "banaan",
        ... "se" => "banan",
    ],
    ... "apple" => [
        ... "es" => "manzana",
        ... "en" => "apple",
        ... "nl" => "appel",
        ... "se" => "äpple",
    ],
];

?>
```

```
<table>
<thead>
    ... <th>Fruit</th>
    ... <th>Language</th>
    ... <th>Name</th>
</thead>
<tbody>
    ... <? foreach ($fruits as $fruit => $i18n) { ?>
    ... <tr>
    ... <td rowspan="<?= count($i18n) + 1 ?>"><?= $fruit ?></td>
    ... </tr>
    ... <? foreach ($i18n as $lang => $name) { ?>
    ... <tr>
    ... <td><?= $lang ?></td>
    ... <td><?= $name ?></td>
    ... </tr>
    ... <? } ?>
    ... <? } ?>
</tbody>
</table>
```



WHAT'S PHP?

Architecture

WHAT'S PHP?

Another more code example

```
1 <?php
2
3 include(__DIR__ . "../config.php");
4
5 if ($_SERVER["REQUEST_METHOD"] != "POST") {
6     header("Location: " . MAIN_URL);
7     die;
8 }
9
10 $action = $_GET["uri"];
11 $_POST = json_decode(file_get_contents("php://input"), true);
12
13 $client = new SoapClient(WSDL_FILE);
14 try {
15     $result = call_user_func_array([$client, $action], $_POST);
16 } catch (SoapFault $fault) {
17     $result = ["error" => $fault->getMessage()];
18 }
19
20 header("Content-type: application/json");
21 print json_encode($result);
22
```


WHAT'S PHP?

Another more code example

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2
3 include(__DIR__ . "../config.php");
4
5 if ($_SERVER["REQUEST_METHOD"] != "POST") {
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WHAT'S PHP?

Another more code example

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18 }
19
20 header("Content-type: application/json");
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```

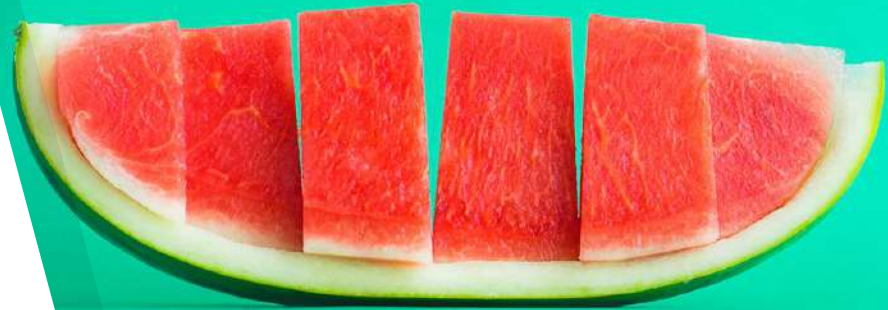
WHAT'S PHP?

Another more code example

```
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20 header("Content-type: application/json");
21 print json_encode($result);
22
```

2.

BEAM AND WHY PHP?



BEAM AND WHY PHP?

Telco companies use it!

- ▶ Because of **VoiceXML**:

```
1 <?xml version="1.0" encoding="iso-8859-1"?>
2 <?xml version="2.0" xmlns="http://www.w3.org/2001/xml"
3   xml:lang="en-UK">
4   <property name="fetchtimeout" value="60s" />
5   <form>
6     <input>
7       <reprompt/>
8     </input>
9     <prompt>Bad recording.</prompt>
10    <reprompt/>
11    </form>
12    <var name="caller" expr="session.connection.remote.uri"/>
13    <block>
14      <prompt>Welcome to the Karaoke service :</prompt>
15    </block>
16    <field name="access">
17      <property name="timeout" value="10s" />
18      <prompt>To record your message, press 1.</prompt>
19      <option dtmf="1" value="1" />
20    </field>
21    <record duration="true" maxtime="240s" type="audio/x-wav"
22    name="record" beep="true">
```

- ▶ Because of integration with **Asterisk**
- ▶ Because of integration with **FreeSwitch**
- ▶ Easy to learn → Lot of developers to hire



BEAM AND WHY PHP?

PHP Technology is limited...

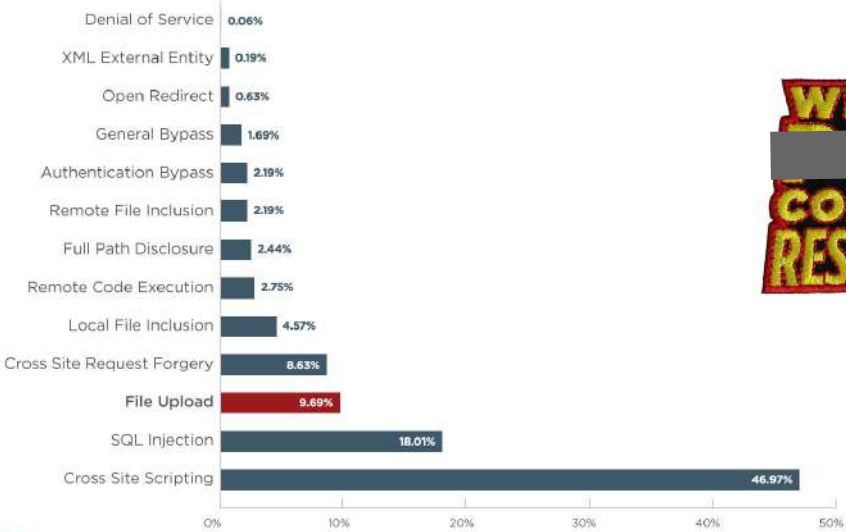
- ▶ **No concurrency control** (no! Using Redis isn't concurrency development)
- ▶ **Single-thread** (no background tasks, no! cron isn't a good solution)
- ▶ **No real-time**, even PHP running is usually time limited
- ▶ **Limited to the Operating System** processes / threads
- ▶ **Websockets...** what's that?



BEAM AND WHY PHP?

PHP Technology is very flexible and then very insecure

Vulnerabilities by Type



WITH GREAT FLEXIBILITY COMES GREAT RESPONSIBILITY!



BEAM AND WHY PHP?

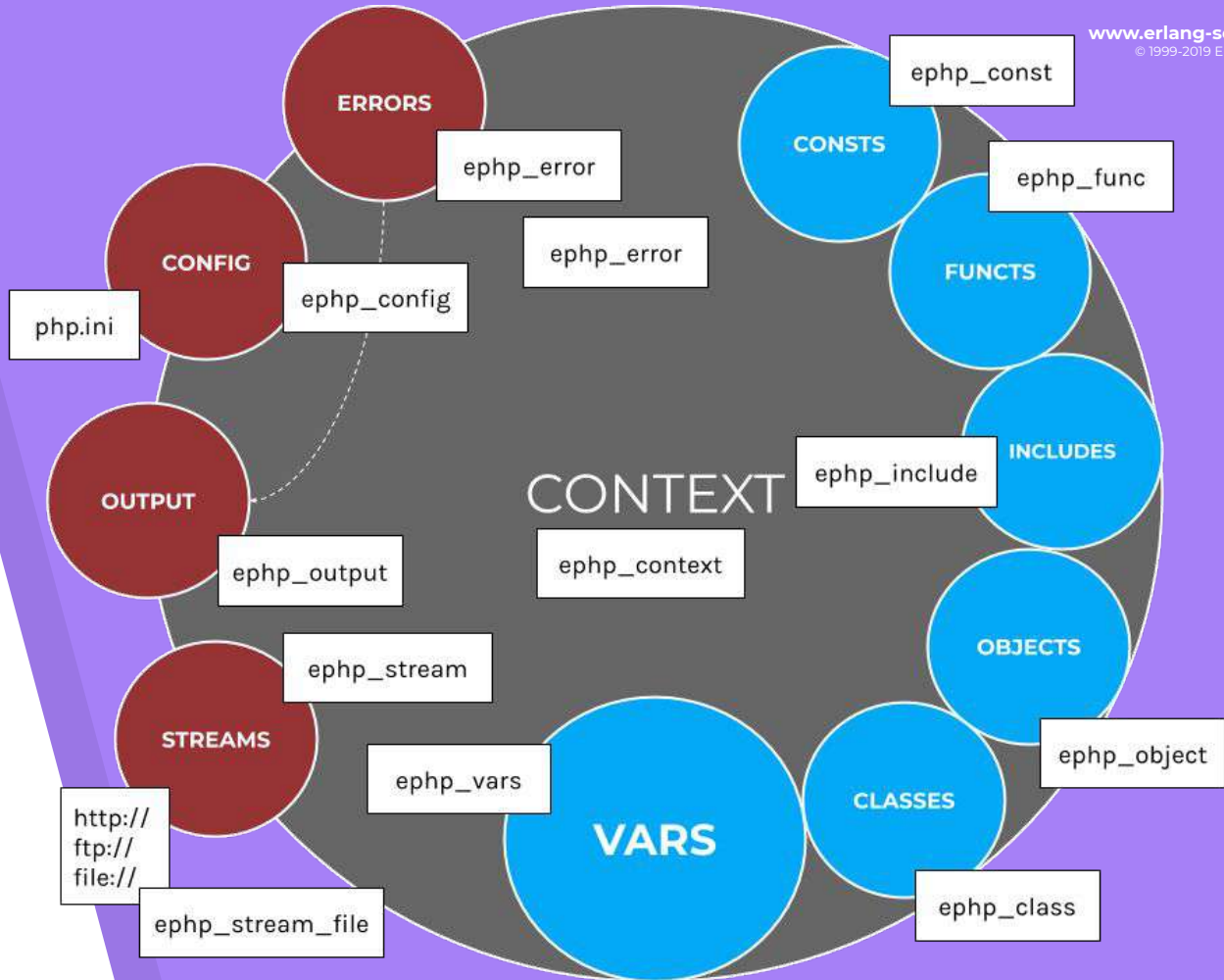
... then BEAM saves the day!

- ▶ **BUT** even if it's easy to learn, OTP isn't
- ▶ **BUT** it hasn't an "accepted" syntax... it's weird
- ▶ **BUT** there are no working code (maybe only Zotonic these days)
- ▶ **BUT** workarounds are better than start from scratch
- ▶ **BUT** needs to be simpler, flexible and have more examples



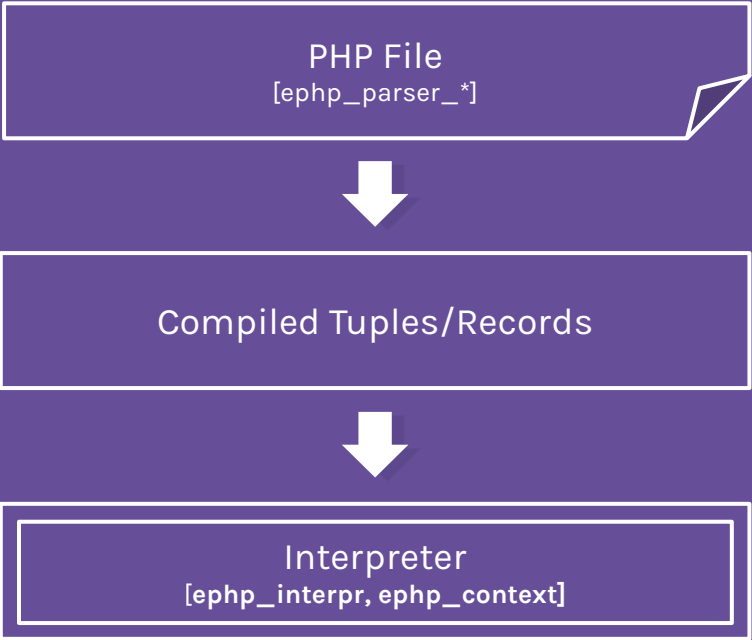
3.

PHP over
ERLANG (ephp)



PHP over ERLANG

(ephp)
Architecture



PHP over ERLANG

(ephp)
Architecture

```
<?php
```

```
$stack = [  
    "orange",  
    "banana",  
    "apple",  
    "strawberry"  
];  
$fruit = array_pop($stack);  
var_dump($fruit, $stack);
```



PHP over ERLANG

(ephp)
Architecture

```
[{eval,  
  [{assign,  
    {variable,normal,undefined,<<"stack">>,[],undefined,undefined,  
      {{line,2},{column,2}}},  
    {array,  
      [{array_element,auto,  
        {text,<<"orange">>,{line,2},{column,16}}},  
        {line,2},{column,16}}},  
      {array_element,auto,  
        {text,<<"banana">>,{line,2},{column,26}}},  
        {line,2},{column,26}}},  
      {array_element,auto,  
        {text,<<"apple">>,{line,2},{column,36}}},  
        {line,2},{column,36}}},  
      {array_element,auto,  
        {text,<<"strawberry">>,{line,2},{column,45}}},  
        {line,2},{column,45}}},  
      {{line,2},{column,10}}},  
      {{line,2},{column,8}}},  
    {assign,  
      {variable,normal,undefined,<<"fruit">>,[],undefined,undefined,  
        {{line,3},{column,2}}},  
      {call,normal,undefined,<<"array_pop">>,  
        [{variable,normal,undefined,<<"stack">>,[],undefined,undefined,  
          {{line,3},{column,21}}},  
          {{line,3},{column,10}}},  
          {{line,3},{column,8}}},  
        {call,normal,undefined,<<"var_dump">>,  
          [{variable,normal,undefined,<<"fruit">>,[],undefined,undefined,  
            {{line,4},{column,11}}},  
            {variable,normal,undefined,<<"stack">>,[],undefined,undefined,  
              {{line,4},{column,19}}},  
            {{line,4},{column,1}}},  
            {{line,1},{column,1}}}]
```


PHP over ERLANG (ephp)

Extensibility... ephp_func behaviour

- ▶ `init_func` (**required**) list of functions to use
- ▶ `init_config` (**required**) configuration parameters (php.ini)
- ▶ `init_const` (**required**) list of constants with their values
- ▶ `handle_error` (**optional**) let us define new error messages
- ▶ `get_classes` (**optional**) list of classes added by the module

PHP over ERLANG (ephp) Extensibility

```
init_func() -> [
  {in_array, [{args, {2, 3, undefined, [mixed, array, {boolean, false}]}}]},
  count,
  {count, [{alias, <<"sizeof">>}]},
  {array_merge, [pack_args]},
  {list, [pack_args, {args, no_resolve}]},
  {array_unique, [
    {args, {1, 2, undefined, [array, {integer, ?SORT_STRING}]}}
  ]},
  {array_change_key_case, [
    {args, {1, 2, undefined, [array, {integer, ?CASE_LOWER}]}}
  ]},
  {array_chunk, [
    {args, {2, 3, undefined, [array, integer, {boolean, false}]}}
  ]},
  {array_column, [
    {args, {2, 3, undefined, [array, mixed, {mixed, undefined}]}}
  ]},
  {reset, [{args, {1, 1, undefined, [array]}}]},
  {current, [{args, {1, 1, undefined, [array]}}]},
  {current, [{args, {1, 1, undefined, [array]}}, {alias, <<"pos">>}]},
  {php_end, [{args, {1, 1, undefined, [array]}}, {alias, <<"end">>}]},
  {prev, [{args, {1, 1, undefined, [array]}}]},
  {next, [{args, {1, 1, undefined, [array]}}]},
  {next, [{args, {1, 1, undefined, [array]}}, {alias, <<"each">>}]},
  {key, [{args, {1, 1, undefined, [array]}}]},
  {ksort, [{args, {1, 2, false, [array, {integer, ?SORT_REGULAR}]}}]},
  {array_keys, [array]},
  {array_pop, [array]}
]
```

1.

```

init_func() -> [
    {in_array, [{args, {2, 3, undefined, [mixed, array, {boolean, false}}]}]},
    count,
    {count, [{alias, <<"sizeof">>}]},
    {array_merge, [pack_args]},
    {list, [pack_args, {args, no_resolve}]},
    {array_unique, [

```

```

-spec in_array(
    ... context(), line(),
    ... Key::: var_value(), Array::: var_value(), Strict::: var_value()
) -> boolean().

```

```

in_array(_Context, _Line, {_, Value}, {_, Array}, {_, Strict}) ->
    ... member(Value, Array, ephp_data:to_bool(Strict)).

```

```

{next, [{args, {1, 1, undefined, [array]}]},
{current, [{args, {1, 1, undefined, [array]}]},
{current, [{args, {1, 1, undefined, [array]}}, {alias, <<"pos">>}]},
{php_end, [{args, {1, 1, undefined, [array]}}, {alias, <<"end">>}]},
{prev, [{args, {1, 1, undefined, [array]}]},
{next, [{args, {1, 1, undefined, [array]}]},
{next, [{args, {1, 1, undefined, [array]}}, {alias, <<"each">>}]},
{key, [{args, {1, 1, undefined, [array]}]},
{ksort, [{args, {1, 2, false, [array, {integer, ?SORT_REGULAR}}]}]},
{array_keys, [array]},
{array_pop, [array]}

```

1.

PHP over ERLANG

(ephp)
Extensibility

PHP over ERLANG (ephp)

- ephp_lib_array.erl
- ephp_lib_class.erl
- ephp_lib_control.erl
- ephp_lib_date.erl
- ephp_lib_error.erl
- ephp_lib_exec.erl
- ephp_lib_file.erl
- ephp_lib_func.erl
- ephp_lib_info.erl
- ephp_lib_math.erl
- ephp_lib_misc.erl
- ephp_lib_ob.erl
- ephp_lib_pcre.erl
- ephp_lib_spl.erl
- ephp_lib_string.erl
- ephp_lib_vars.erl

bragful / ephp_xml

<> Code Issues 0

Branch: master ephp_xml

manuel-rubio [skip ci] add ex

- ephp_lib_xml.erl
- ephp_xml.app.src
- ephp_xml.erl

bragful / ephp_mysql

<> Code Issues 0

Branch: master ephp_mysql

manuel-rubio implement my

- ephp_class_mysql.erl
- ephp_class_mysql_result.erl
- ephp_lib_mysql.erl
- ephp_mysql.app.src
- ephp_mysql.erl

bragful / ephp_json

<> Code Issues 0 Pull req

Branch: master ephp_json / src /

manuel-rubio add preserve_zero_fraction, p

- ephp_json.app.src initial vers
- ephp_json.erl add ephp
- ephp_lib_json.erl add prese

PHP over ERLANG (ephp)

Developing a Bot using TDD on Erlang without writing a single line of code in Erlang



Manuel Rubio

May 8, 2018 · 6 min read ★

Or more specifically: using [Bragful \(PHP\)](#) to write Bot clients in a TDD thanks to [snatch](#) and its experimental extension [snatch-php](#).



PHP over ERLANG (ephp)

Developing a Bot using TDD on Erlang without writing a single line of code in E

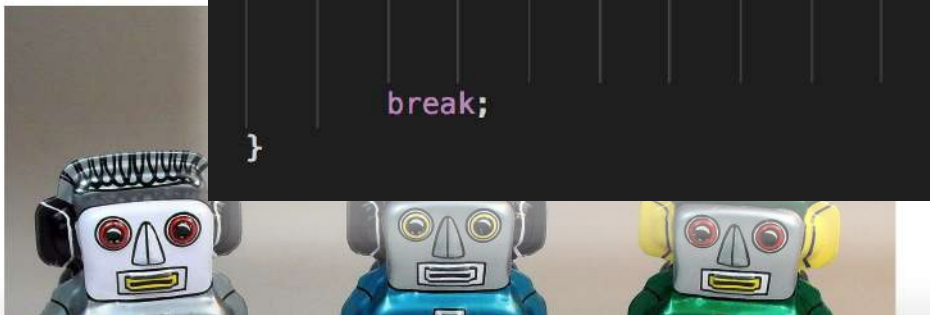


Manuel Rubio

May 8, 2018 · 6

Or more specifically
snatch and its exper

```
<?php
switch ($_REQUEST["name"]) {
    case "message":
        $attrs = &$_REQUEST["attrs"];
        $payload = $_REQUEST["children"];
        snatch_send_binary(snatch_message($attrs["to"],
                                           $attrs["from"],
                                           $attrs["id"],
                                           $attrs["type"],
                                           $payload));
        break;
}
```



PHP over ERLANG (ephp)

```
<message type="chat"  
  from="bob@localhost/pc"  
  to="alice@localhost"  
  id="test_bot">  
  <body>Hello world!</body>  
</message>
```



```
<message type="chat"  
  from="alice@localhost"  
  to="bob@localhost/pc"  
  id="test_bot">  
  <body>Hello world!</body>  
</message>
```

TDD on
single line of

```
name")) {  
  $REQUEST["attrs"];  
  $REQUEST["children"];  
  binary(snatch_message($attrs["to"],  
    $attrs["from"],  
    $attrs["id"],  
    $attrs["type"],  
    $payload));
```



PHP over ERLANG (ephp)

```
<message type=  
  from=  
  to="a  
  id="t  
  <body>Hell  
</message>
```

```
<message type=  
  from=  
  to="b  
  id="t  
  <body>Hell  
</message>
```

snatch-xmpp / snatch_php

<> Code Issues 0 Pull re

Branch: master ▾ snatch_php / src /

manuel-rubio more functions for PHP an

ephp_lib_snatch.erl more f

snatch_php.app.src fix typ

snatch_php.erl chang

```
    $attrs["children"]);  
    $attrs["children"]);  
    $attrs["to"],  
    $attrs["from"],  
    $attrs["id"],  
    $attrs["type"],  
    $payload));
```

PHP over ERLANG (ephp)



Manuel Rubio
@MRonErlang



@bragful_php is possible to use now PHP templates with @elixirphoenix [github.com/bragful/ephp_t...](https://github.com/bragful/ephp_templates)



Welcome to Phoenix
A productive web framework that does not compromise speed and maintainability.

2019-03-01 15:14

```

$_SERVER:
array(12) {
  ["argc"]=>
  int(1)
  ["argv"]=>
  array(1) {
    [0] =>
    string(8) "app.html"
  }
  ["PHP_SELF"]=>
  string(0) ""
  ["SERVER_NAME"]=>
  string(7) "0.0.0.0"
  ["REQUEST_METHOD"]=>
  string(3) "GET"
  ["QUERY_STRING"]=>

```

```

11 <!-- content -->
12 <div class="jumbotron">
13 <div>
14 <h1>Name</h1>
15 <div class="lead">Age</div>
16 </div>
17 </div>
18 <div class="row">
19 <div class="col-md-4">
20 <div class="card">
21 <div class="card-body">
22 <div class="text">
23 <div class="text">
24 <div class="text">
25 </div>
26 </div>
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100 </div>

```

PHP over ERLANG (ephp)



Phoenix Framework

[Get Started](#)

Welcome to Phoenix

A productive web framework that
does not compromise speed and maintainability.

2019-03-01 15:14

```
$_SERVER:
array(12) {
  ["argc"]=>
  int(1)
  ["argv"]=>
  array(1) {
    [0]=>
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  }
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  string(0) ""
  ["SERVER_NAME"]=>
  string(7) "0.0.0.0"
  ["REQUEST_METHOD"]=>
  string(3) "GET"
  ["QUERY_STRING"]=>
  string(6) "data=1"
  ["DOCUMENT_ROOT"]=>
  string(1) ""
}
```

```
18     <ul class="nav nav-pills pull-right">
19         <li><a href="http://www.phoenixframework.org/docs">Get Started</a>
20     </li>
21 </ul>
22 </nav>
23 <span class="logo"></span>
24 </header>
25 <main role="main">
26     <?> include_once(__DIR__ . '/../page/index.html.php"); ?>
27 </main>
28
29 </div> <!-- /container -->
30 <script src="/js/app.js"></script>
31 </body>
32 </html>
```

PHP over ERLANG (ephp)



Phoenix

Welcome

A productive web framework that does not compromise speed and maintainability.

2019-0

```
$_SERVER:
array(12) {
  ["argc"]=>
  int(1)
  ["argv"]=>
  array(1) {
    [0] =>
    string(8) "app.html"
  }
  ["PHP_SELF"]=>
  string(0) ""
  ["SERVER_NAME"]=>
  string(7) "0.0.0.0"
  ["REQUEST_METHOD"]=>
  string(3) "GET"
  ["QUERY_STRING"]=>
  string(6) "data=1"
  ["DOCUMENT_ROOT"]=>
```

```
1 <div class="jumbotron">
2   <h2>Welcome to Phoenix</h2>
3   <p class="lead">
4     A productive web framework that<br />
5     does not compromise speed and maintainability.<br />
6     <?php date_default_timezone_set("UTC"); ?>
7     <h1><?= date("Y-m-d H:i") ?></h1>
8   </p>
9 </div>
10
11 <pre>$_SERVER:
12 <? var_dump($_SERVER); ?></pre>
13
14 <pre>$_REQUEST:
15 <? var_dump($_REQUEST); ?></pre>
16
17 <pre>$_GET:
18 <? var_dump($_GET); ?></pre>
19
20 <pre>$_POST:
21 <? var_dump($_POST); ?></pre>
22
23 <pre>$_COOKIE:
```


PHP over ERLANG (ephp)

<https://leprechaun.altenwald.com/bot>

Game Code Logs

Mute How to play HiScore Restart Game

Score: 0
Turns: 10

Game Code Logs

Run

```

1 <?php
2
3 $move = [];
4 $points = 0;
5
6 $options = [ [0, -1],
7             [-1, 0],
8             [0, 1],
9             [1, 0] ];
10
11 function get_points($matches) {
12     $points = 0;
13     foreach ($matches as $match) {
14         foreach ($match[1] as $coords) {
15             $points += leprechaun_get_points($coords[0], $coords[1]);
16         }
17     }
18 }

```

*graphics by
Ana M. Rubio

PHP over ERLANG (ephp)

README.md

ePHP

Copyright (c) 2013-2020 Altenwald Solutions, S.L.

Authors: "Manuel Rubio" (manuel@altenwald.com).

build passing coverage 87% license LGPL-2.1 chat on gitter hex v0.2.7

PHP Interpreter pure 100% Erlang. This interpreter was made for enhance and give flexibility to projects that requires an interface for plugins or addons without new compilations.

In the same way, you can use for server PHP pages in an easy way.

The port is not 100% complete, please refer to [compatibility table](#).

PHP over ERLANG (ephp)

The screenshot shows a GitHub Actions workflow run for the repository 'bragful / ephp'. The build status is 'passing'. The workflow is triggered by a commit to the 'master' branch. The build job is named 'master refactor and some bugfixes (add new tests)'. The build was initiated by Manuel Rubio 17 days ago. The build ran for 15 minutes and 40 seconds, with a total time of 30 minutes and 36 seconds. The build consists of four jobs, all of which passed successfully on AMD64 architecture. Each job used the 'OTP Release' action to set up the Erlang environment. The jobs are: # 503.1 (1 min 6 sec), # 503.2 (1 min 13 sec), # 503.3 (1 min 14 sec), and # 503.4 (1 min 15 sec). All jobs used the 'no environment variables set' configuration.

bragful / ephp build passing

Current Branches Build History Pull Requests > Build #503 More options

✓ master refactor and some bugfixes (add new tests) 🔄 #503 passed 🔄 Restart build

🔗 Commit 690f32e
 🔗 Compare d2aa912...690f32e
 🔗 Branch master

👤 Manuel Rubio
 ⌚ Ran for 15 min 40 sec
 ⌚ Total time 30 min 36 sec
 📅 17 days ago

Build jobs View config

✓ # 503.1	AMD64	🔗	</> OTP Release: 19 Erla...	📦 no environment variables set	⌚ 1 min 6 sec	🔄
✓ # 503.2	AMD64	🔗	</> OTP Release: 19.1 Er...	📦 no environment variables set	⌚ 1 min 13 sec	🔄
✓ # 503.3	AMD64	🔗	</> OTP Release: 19.2 Er...	📦 no environment variables set	⌚ 1 min 14 sec	🔄
✓ # 503.4	AMD64	🔗	</> OTP Release: 19.3 Er...	📦 no environment variables set	⌚ 1 min 15 sec	🔄

PHP over ERLANG (ephp)

1. Compilation
2. Cross References (xref)
3. Tests (516 tests)
4. Coverage (~ 87% coverage)
5. Dialyzer (0 warnings)

Commit 690f32e
Compare d2aa912...690f32e
Branch master
Manuel Rubio

Ran for 15 min 40 sec
Total time 30 min 36 sec
17 days ago

Build jobs View config

Build Job	Platform	Configuration	Duration
✓ # 503.1	AMD64	</> OTP Release: 19 Erla...	
✓ # 503.2	AMD64	</> OTP Release: 19.1 Er...	
✓ # 503.3	AMD64	</> OTP Release: 19.2 Er...	1 min 14 sec
✓ # 503.4	AMD64	</> OTP Release: 19.3 Er...	1 min 15 sec

Erlang Version	Support	Notes
22.2	✓	Recommended if you use OTP 22
22.1	✓	
22.0	✓	
21.3	✓	Recommended if you use OTP 21
21.2	✓	
21.1	✓	
21.0	✓	
20.3	✗	fails in math lib
20.2	✓	Recommended if you use OTP 20
20.1	✓	
20.0	✓	
19.3	✓	Recommended if you use OTP 19
19.2	✓	
19.1	✓	
19.0	✓	

PHP over ERLANG (ephp)

ephp 0.2.7

Erlang PHP Interpreter

Links

[Github](#)

License

LGPL 2.1

Config

mix.exs
`{:ephp, "~> 0.2.7"}`

rebar.config
`{ephp, "0.2.7"}`

erlang.mk
`dep_ephp = hex 0.2.7`

Checksum

`b50f1f06f17acf5bfdcb`

Build Tools

[rebar3](#)

Downloads

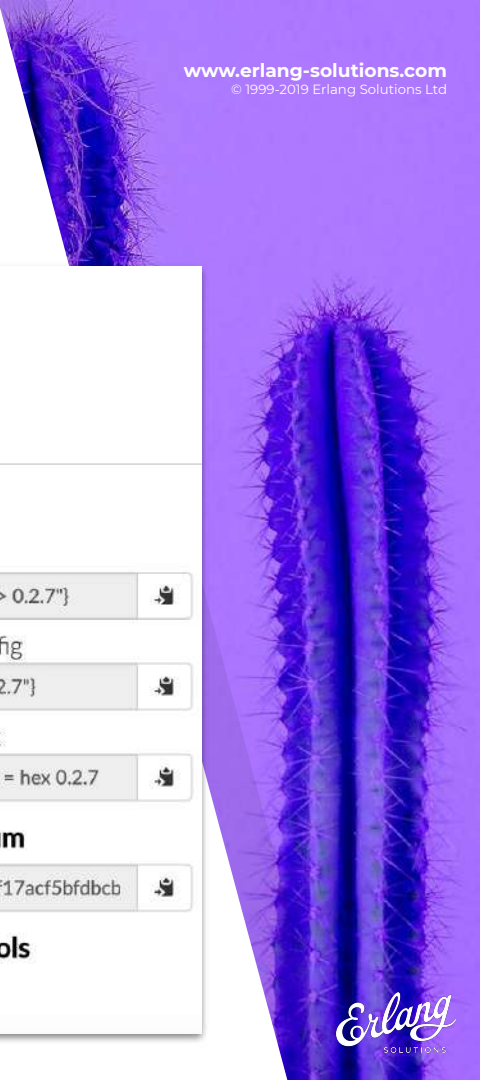
60 downloads this version	0 downloads yesterday	38 downloads last 7 days	1 040 downloads all time
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Versions (9)

- [0.2.7](#) Dec 20, 2019
- [0.2.6](#) Jul 11, 2019
- [0.2.5](#) Apr 26, 2019
- [0.2.4](#) Apr 19, 2019
- [0.2.3](#) Mar 1, 2019

Dependencies (5)

- [ezic](#) 0.2.2
- [getopt](#) 1.0.1
- [recon](#) 2.3.2
- [unistring](#) 0.1.0
- [zucchini](#) 0.1.0



Help us to Help you!

- ▶ Use it!
- ▶ Report bugs!
- ▶ Add more functions to **ephp lib modules** and send us your PR!
- ▶ Join us to **gitter!**
- ▶ Give us **stars in Github!**

THANK YOU

Q&A

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