

# Un ensemble de bibliothèques PHP qui roxx du poney

#### Qui suis-je?

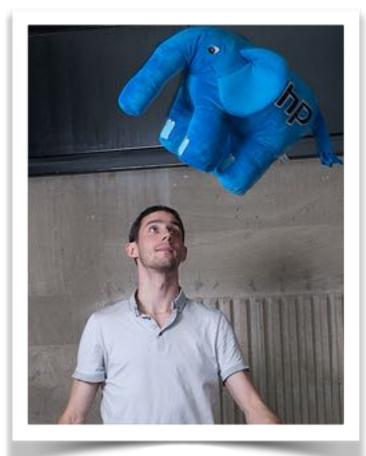
- Alexis von Glasow
- @ashgenesis
- https://inovia.fr inouio
- contributeur:

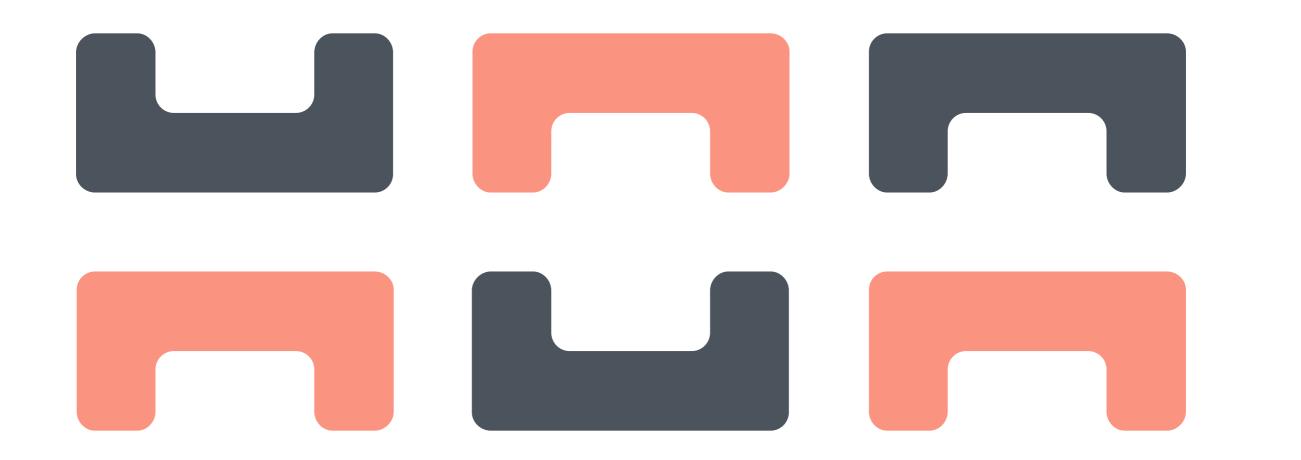
http://atoum.org



https://hoa-project.net







# 

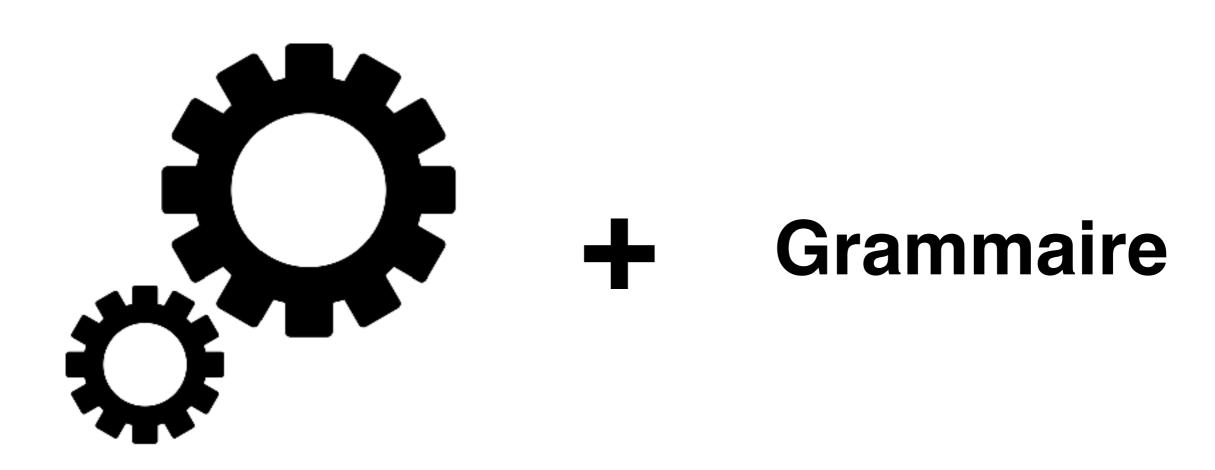
# Bibliothèques

Acl	Dispatcher	Iterator	Praspel	Session	
Bench	Dns	Json	Promise	Socket	Visitor
Cache	Event	Locale	Protocol	Stream	Websocket
Cli	Eventsource	Log	Prototype	String	Worker
Compiler	Exception	Mail	Realdom	Stringbuffer	XmI
Consistency	Fastcgi	Math	Regex	Test	Xmlrpc
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# Compiler



# Compiler Grammaire

Lexèmes (tokens)

T Règles

# Compiler

```
%token
            T OP PLUS
                           plus
%token
            T OP MINUS
                           moins
%token
            T OP MULTI
                           multiplié par
%token
            T OP DIVIDE
                           divisé par
           T OP EQUAL
                           égale
%token
%token
                           \.[a-zA-Z][a-zA-Z0-9]*
           T FN
                           @[a-zA-Z][a-zA-Z0-9]*
%token
            T VAR
%token
           T CONST
                           [A-Z][A-Z0-9]*
                           \-?[1-9][0-9]*
%token
           T NUMBER
%token
           T OPEN PAREN
           T CLOSE PAREN
%token
%token
            T COMMA
```

# Compiler

```
(fn() | expr() | assign() | str() )+
#expr:
    ( <T NUMBER> | <T CONST> | rvar() | fn() )
( operator() expr() )?
#assign:
   lvar() ::T OP EQUAL:: rval()
#fn:
   <T FN> :: T OPEN PAREN:: arguments() :: T CLOSE PAREN::
#str:
    ::T QUOTE:: <T CHAR>* ::T QUOTE::
#rvar:
   <T VAR>
#lvar:
   <T VAR>
```

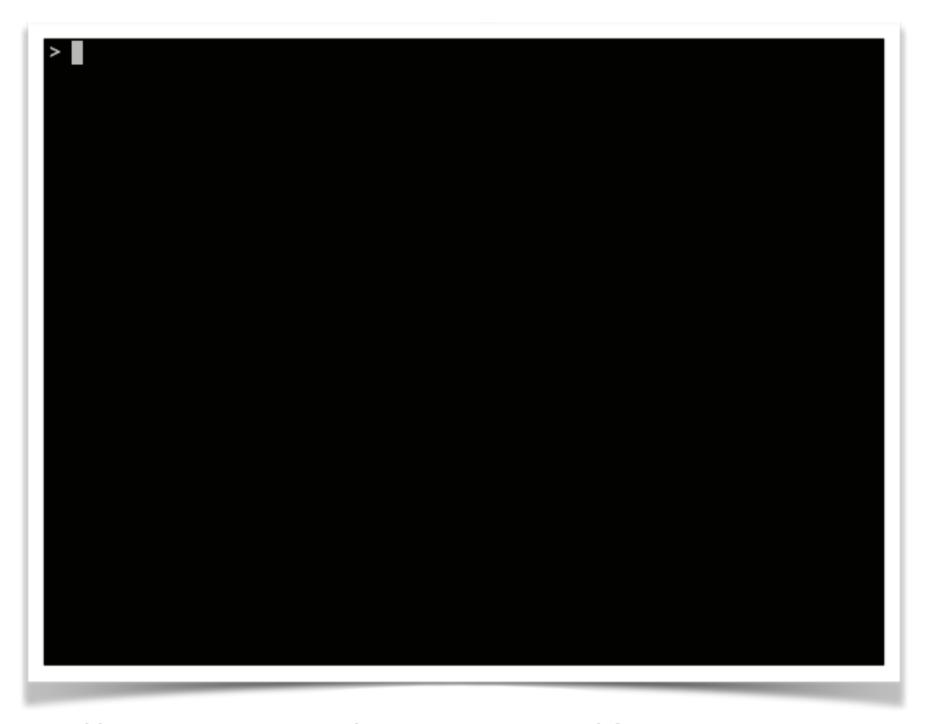
#### 10 minutes language

```
@neuf égal 4 plus 5
@trois égal @neuf divisé par 3
@mon_age égal @trois multiplié par 10 plus 5
affiche J'ai @mon_age ans
```

J'ai 35 ans 😅

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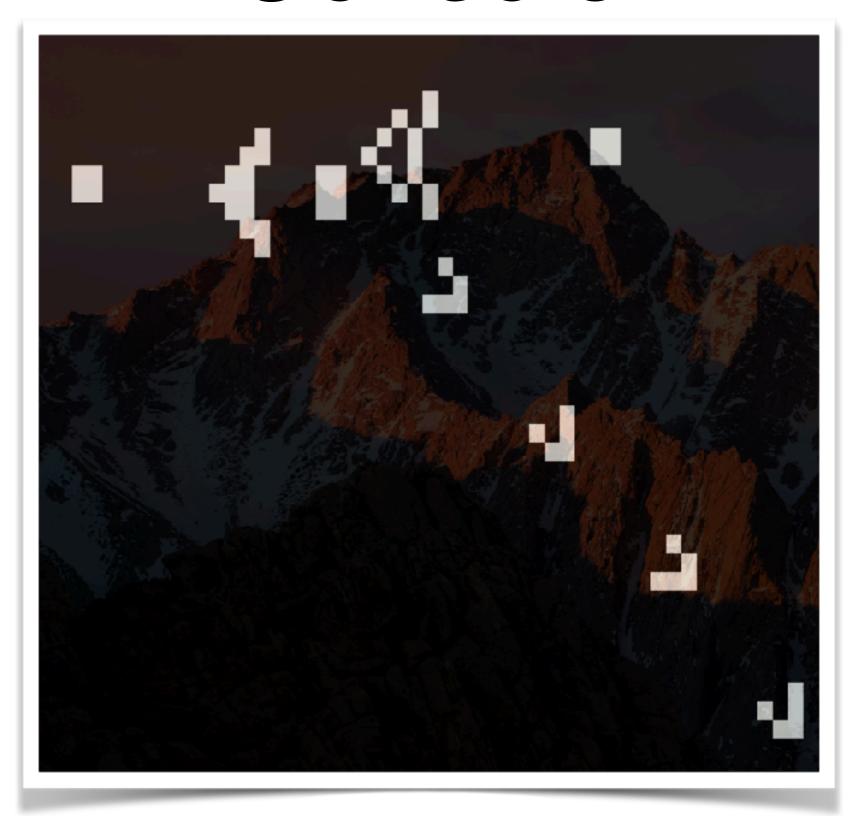
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https://github.com/hoaproject/Console#readline

```
$options = new Hoa\Console\GetOption(
    array(
        array('colonnes', Hoa\Console\GetOption::REQUIRED_ARGUMENT, 'y'),
        array('lines', Hoa\Console\GetOption::REQUIRED_ARGUMENT, 'x'),
        array('random', Hoa\Console\GetOption::OPTIONAL_ARGUMENT, 'r'),
        array('glider-gun', Hoa\Console\GetOption::OPTIONAL_ARGUMENT, 'g'),
        array('help', Hoa\Console\GetOption::OPTIONAL_ARGUMENT, 'h'),
    ),
    $parser
);
```

```
Hoa\Console\Cursor::clear(';');
Hoa\Console\Cursor::hide();
Hoa\Console\Cursor::move('↓', 1);
do
    $hash = $this->computeHash();
    $this->displayWorld();
    $this->computeNewState();
} while ($hash !== $this->computeHash());
Hoa\Console\Cursor::show();
Hoa\Console\Cursor::colorize('default');
Hoa\Console\Cursor::move(
    $this->universe->getWidth()
```



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```
$this->sample(
    $this->realdom->boundinteger(7, 13)
    ->or->boundinteger(42, 153)
)
```

```
$data = $this->realdom
    ->regex('/[\w\-_]+(\.[\w\-\_]+)*@\w\.(net|org)/');
$this->string($this->sample($data))
    ->contains(...)->...;
```

%token

true

%token false

true

false

```
%token null
                        null
//...
%token brace
%token brace
%token bracket
                        -?(0|[1-9]\d^*)(\.\d^+)?([eE][\+\-]?\d^+)?
%token number
value:
    <true> | <false> | <null> | string() | object() | array() | number()
number:
    <number>
#object:
    ::brace :: pair() ( ::comma:: pair() )* :: brace::
#pair:
    string() ::colon:: value()
#array:
    ::bracket :: value() ( ::comma:: value() )* :: bracket::
//...
```

```
public function testJsonExhaustively()
    $compiler = \Hoa\Compiler\Llk\Llk::load(
       new \Hoa\File\Read( DIR . DS . 'JsonGrammar.pp'
    $sampler = new \Hoa\Compiler\Llk\Sampler\BoundedExhaustive(
        $compiler,
        new \Hoa\Regex\Visitor\Isotropic(new \Hoa\Math\Sampler\Random()
    foreach ($sampler as $json) {
        json decode($json);
        $this->integer(json last error())
             ->isEqualTo (JSON ERROR NONE);
```

```
> atoum path: /private/tmp/praspel/vendor/atoum/atoum/vendor/bin/atoum
> atoum version: 2.6.1
> PHP path: /usr/local/Cellar/php70/7.0.12 5/bin/php
> PHP version:
=> PHP 7.0.12 (cli) (built: Oct 14 2016 09:56:59) ( NTS )
=> Copyright (c) 1997-2016 The PHP Group
=> Zend Engine v3.0.0, Copyright (c) 1998-2016 Zend Technologies
       with Zend OPcache v7.0.12, Copyright (c) 1999-2016, by Zend Technologies
=>
      with Xdebug v2.4.1, Copyright (c) 2002-2016, by Derick Rethans
> Praspel\tests\units\Example...
                                                              ][3/3]
[SSS
=> Test duration: 0.84 second.
=> Memory usage: 4.00 Mb.
> Total test duration: 0.84 second.
> Total test memory usage: 4.00 Mb.
> Running duration: 0.41 second.
Success (1 test, 3/3 methods, 0 void method, 0 skipped method, 2129 assertions)!
```

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#### Ruler

```
= new Hoa\Ruler\Ruler();
$ruler
$rule
                    = 'logged(user) and points > 30';
             = new Hoa\Ruler\Context();
$context
$context['user'] = new User();
$context['points'] = 42;
// Declare the `logged` function.
$asserter = new Hoa\Ruler\Visitor\Asserter();
$asserter->setOperator('logged', $logged);
$ruler->setAsserter($asserter);
// Assert!
var dump (
    $ruler->assert($rule, $context)
);
/ * *
 * Will output:
       bool(true)
 * /
```

#### RulerZ

```
$highRankFemalesRule = 'gender = "F" and points > 9000';
```

```
// or an array of objects
$playersObj = [
   new Player('Joe', 'M', 40, 2500),
   new Player('Moe', 'M', 55, 1230),
   new Player('Alice', 'F', 27, 9001),
];
```

```
$isHighRankFemale = $rulerz->satisfies($playersObj[0], $highRankFemalesRule);
```

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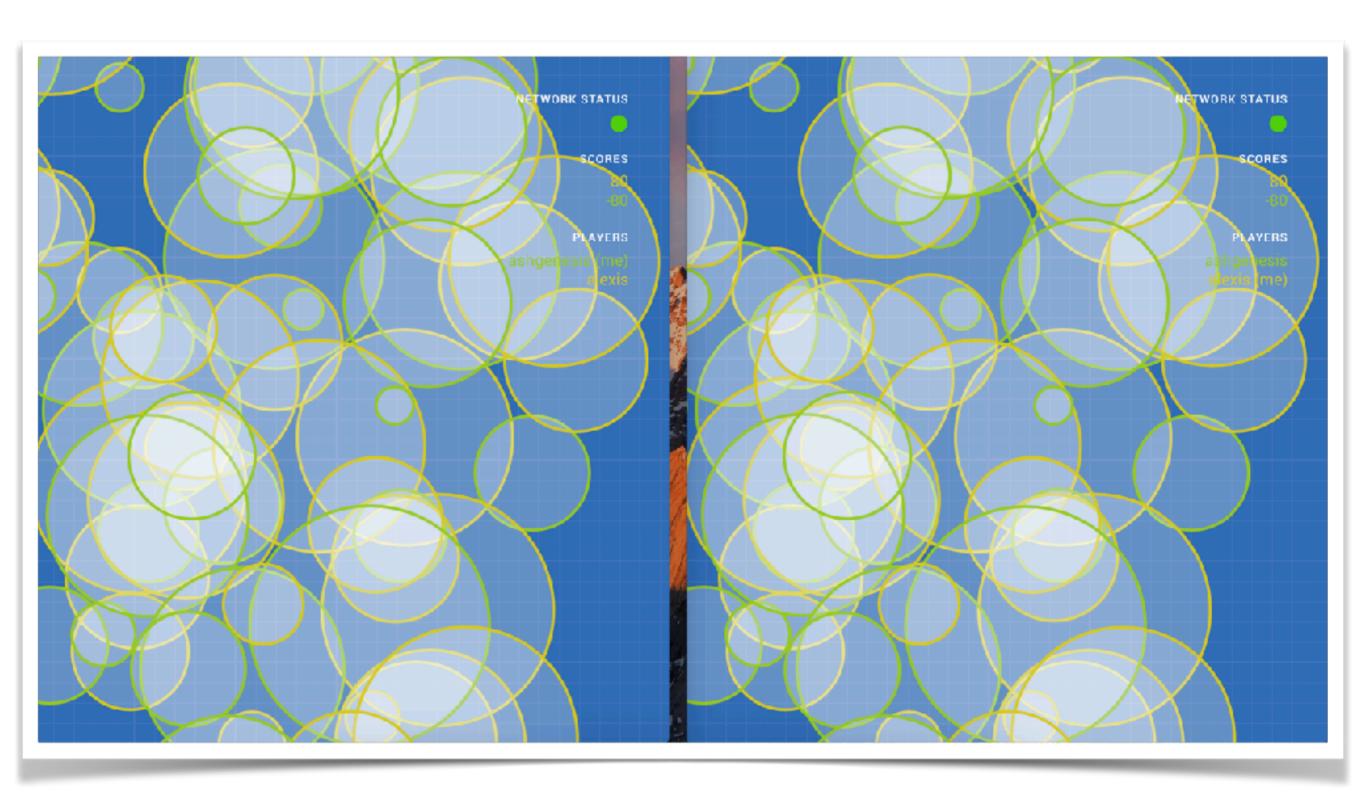
#### Websocket

```
$server = new Websocket\Server(
   new Socket\Server(
        'ws://127.0.0.1:8080')
    );
$server
    ->getConnection()
    ->setNodeName (Player::class);
$server->on(
    'open',
    function (Event\Bucket $bucket) {
        echo 'New player', "\n";
```

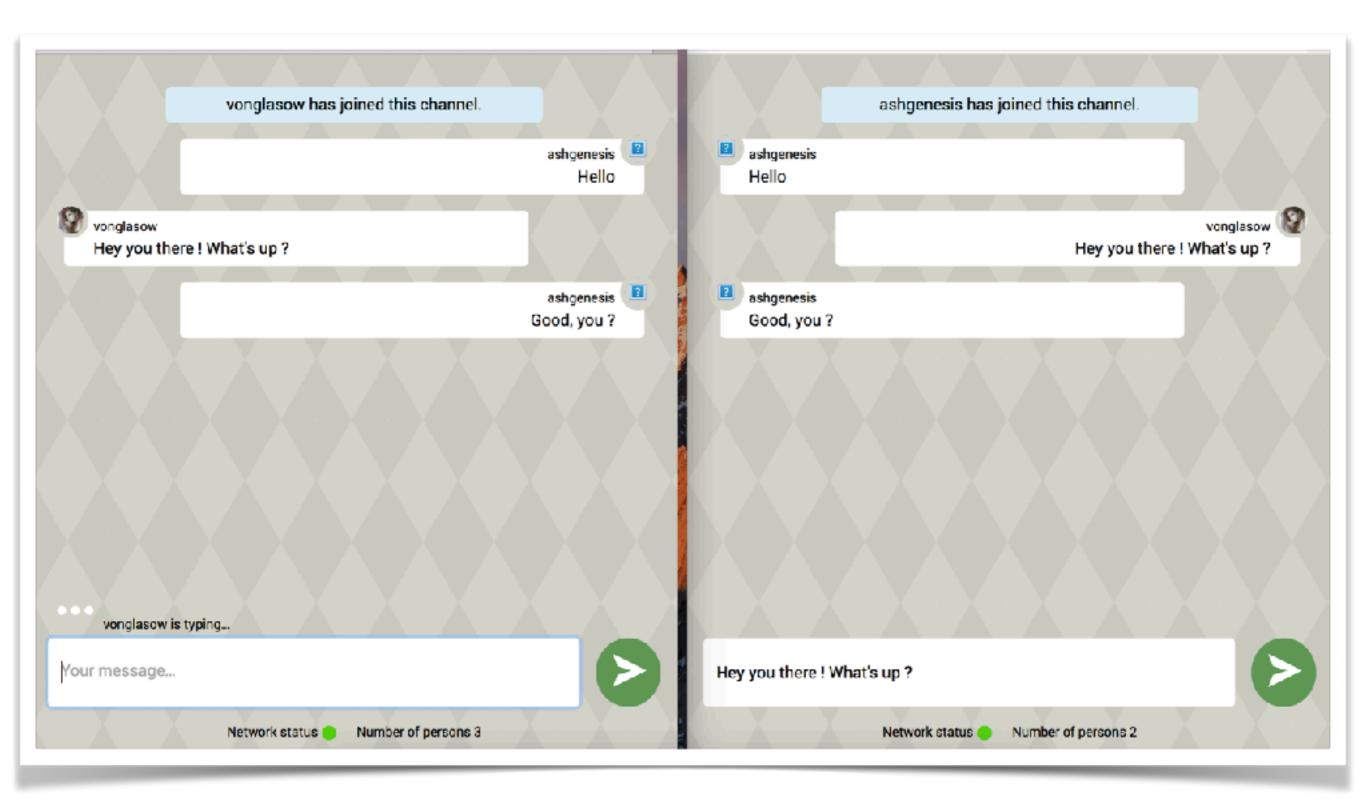
#### Websocket

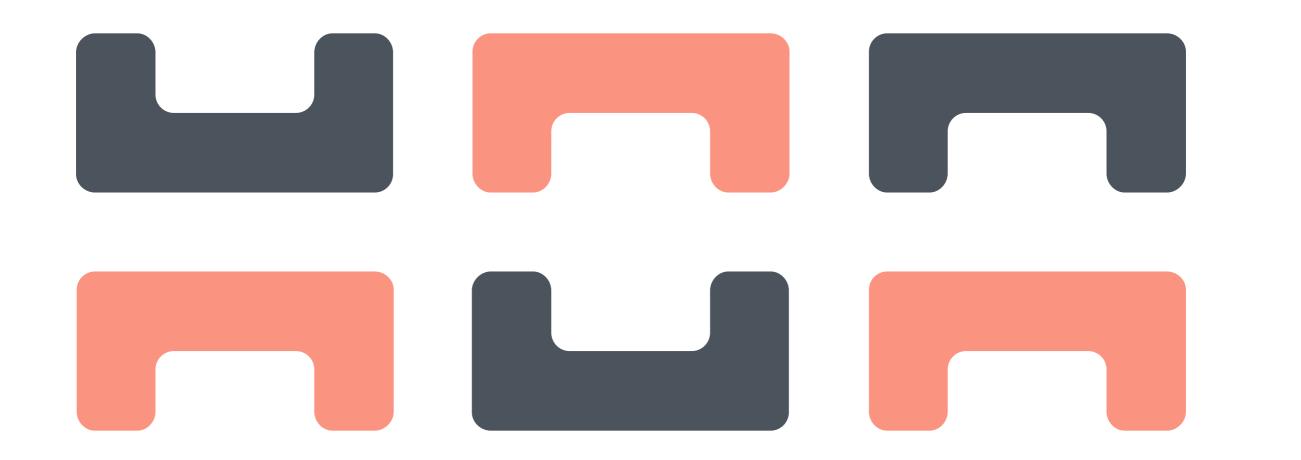
```
$server->on(
    'message',
    function (Event\Bucket $bucket) use ($scores) {
        if (false === $message = @json decode($data['message'])) {
            $bucket->getSource()->close();
            return;
        switch ($message->type) {
            case 'server/player/new':
                break;
            case 'server/bubble/new':
                break;
            case 'server/bubble/delete':
                $bucket->getSource()->broadcast(
                    json encode([
                        'type' => 'client/bubble/delete',
                        'id' => $message->id
                    ])
                );
);
```

#### Bubble Game

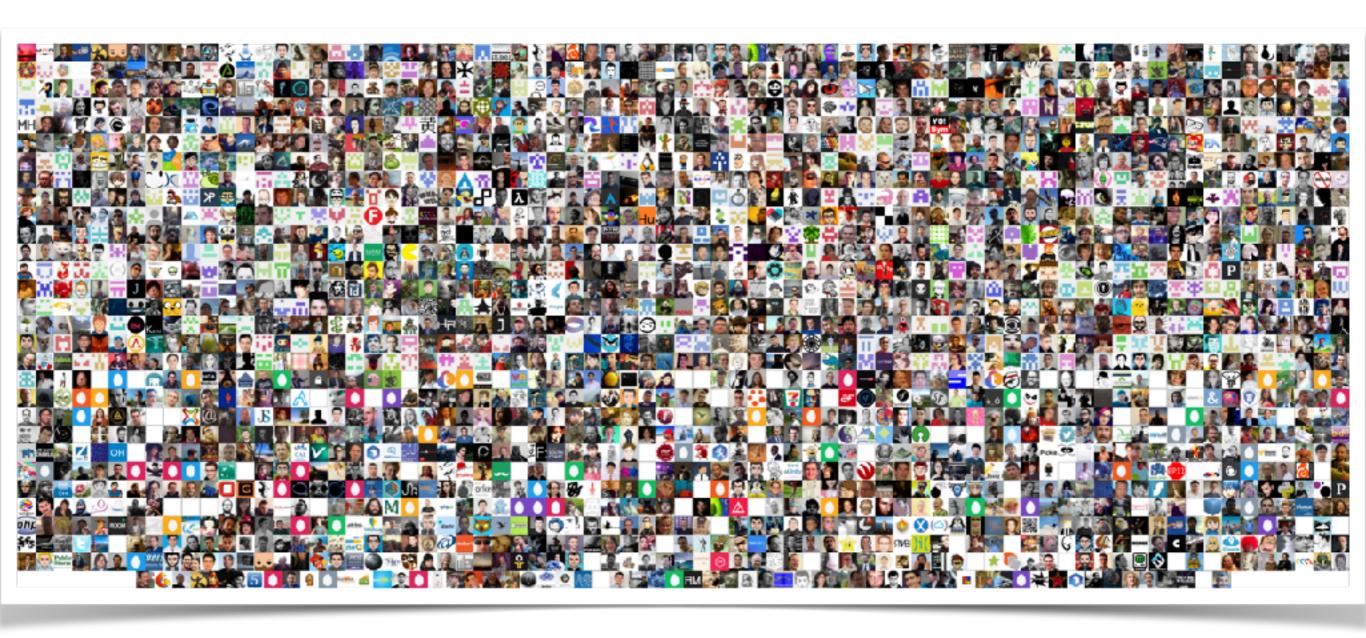


#### Chat



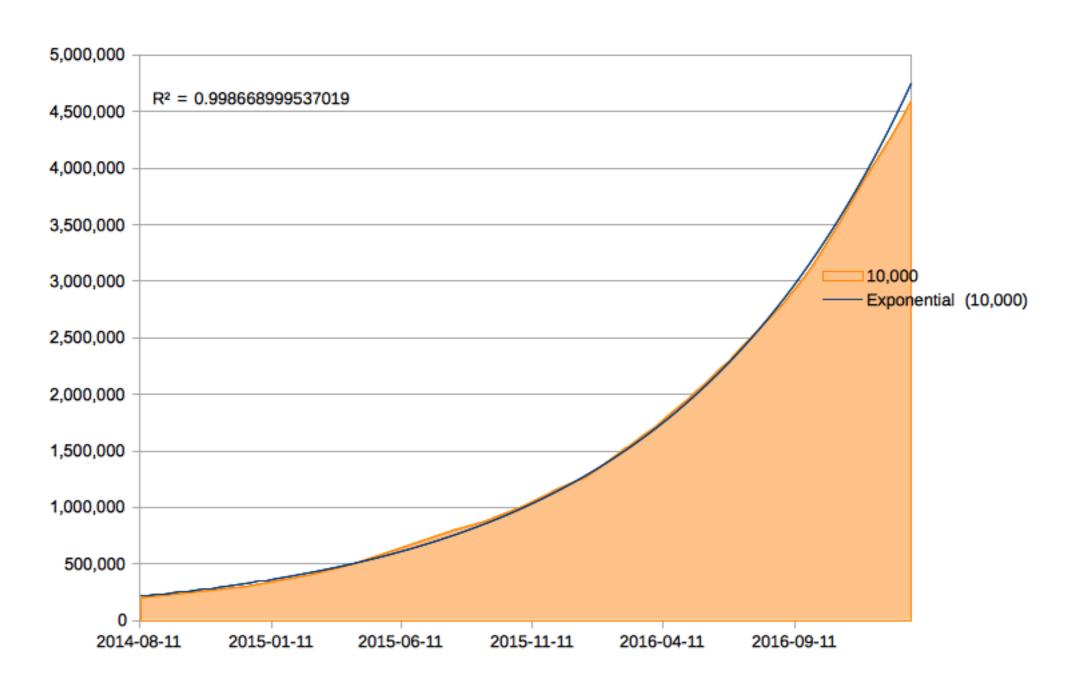


#### Communauté



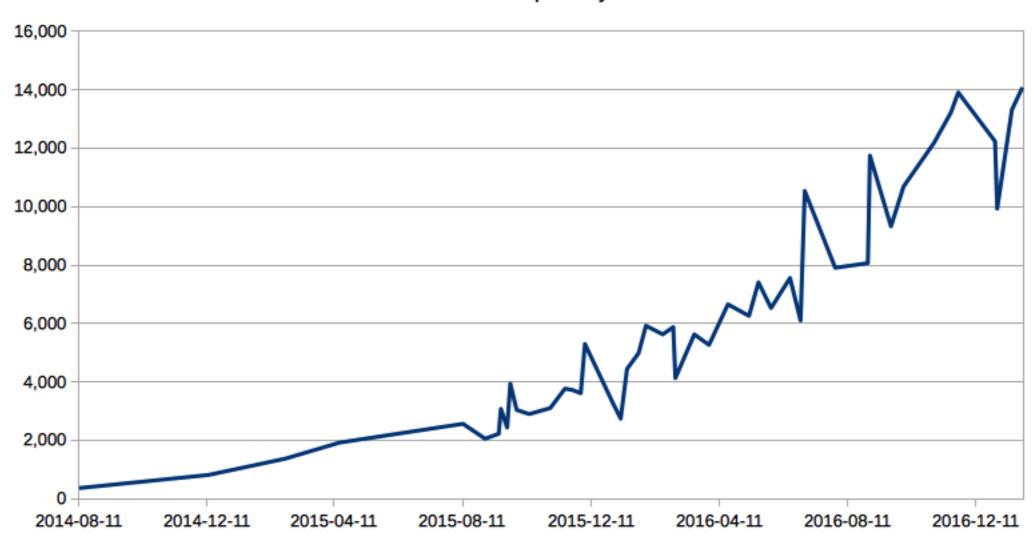
# Packagist

#### Packagist activity



# Téléchargement

#### Download per day



#### Ils nous font confiance

















#### Merci

- <a href="https://hoa-project.net">https://hoa-project.net</a>
- irc: freenode #hoaproject
- https://github.com/doctrine/annotations/pull/75
- http://psysh.org
- <a href="https://github.com/hoaproject/Contributions-Atoum-PraspelExtension">https://github.com/hoaproject/Contributions-Atoum-PraspelExtension</a>
- https://github.com/vonglasow/game-of-life
- https://github.com/jubianchi/tml
- https://github.com/Hywan/ForumPHP2016
- <a href="https://github.com/K-Phoen/rulerz">https://github.com/K-Phoen/rulerz</a>
- <a href="https://hoa-project.net/Fr/Awecode/Console-readline.html">https://hoa-project.net/Fr/Awecode/Console-readline.html</a>
- https://hoa-project.net/Fr/Awecode/Websocket.html

