Yii, frameworks and where PHP is heading to

Is PHP still there?

- Developers are migrating to
 - Ruby
 - Python
 - Java
 - **C++**
- Developers are migrating...

Because... PHP sucks?!

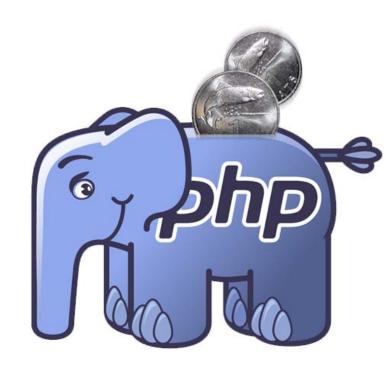


Well, it sucks a bit. Not that much!

- Very good choice for web development.
- Will be there for a long time.
- Programming language is just a tool... one of the tools.
- With a good framework bad parts aren't that visible.

PHP is good for business

- It's web-focused.
- Lots of ready to use stuff.
- PHP makes everything easy.
- Easy to find and replace developers.
- Less risky.
- Project costs less.



Good choice for business → Good choice for developer.

PHP itself is heading towards simplicity and usability

- Password hashing API.
- Generators.
- More consistency.
- Built-in webserver.
- More performance.
- Better syntax.
- etc.

And that's the way to go!

What about frameworks?

Good things first

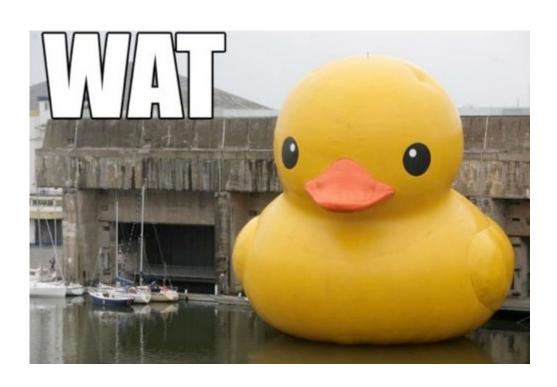
- github = standard for hosting cool PHP stuff.
- PSR-0 = interoperable & faster class loading.
- At least some stable frameworks are there and definitely ready for business: BC and maintained.



Now not that good things...

"Enterprise"

- ZF 2 and Symfony2 are very "enterprise".
- Much more "enterprise" than ZF1 and symfony were.



This "enterprise" shit is too complex

"ZF2 is too "scientific". You can write a thesis about ZF2 and its design. Don't get me wrong, I love best practices, standards, design patterns etc., but ZF2 devs dive too deep into "science". Symfony2 is better but not enough."

But **why** becoming **complex** instead of being simple?

Why ZF2 is what it is

- Zend is the PHP company, they'll have enough customers no matter what they'll release.
- Main customers are of enterprise type.
- Not really interested in 80% projects out there.
- Consulting isn't profitable if product isn't complex enough;)
- Heading into J2EE direction they have a chance to get former EE-companies on board.

It works for Zend very well.

What about Symfony2?

- Personally I think they're trying to be "enterpise" (=complex) as well.
- Sensio labs is a commercial company earning for framework support and consulting.
- http://fabien.potencier.org/article/65/whysymfony
- Good thing is that framework is a bit more practical than ZF2.
- Still very complex.

What's **bad** in these **"enterprise"** things?

- Design-patterns oriented instead of practically oriented. Emphasizing on patterns.
- Easier to unit-test, harder to develop and learn.
- Almost impossible to delegate routine work to less competent developers w/o spending lots of time teaching them first.
- High risk for project owner.

That reminds me... Java past

- "Their main thesis to support that complexity is... hold your breath... fasten your seatbelts: if it were easier, more stupid people would be using it!. Ta-da!!"
- "J2EE is no way simple. However the reality is simple: for J2EE to survive - we have to make it simple to build, deploy and manage"

Java is simpler now compared to what it was

- Play
- Apache Wicket
- Even Spring is much more usable and simple than what it was before

So are SF2 and ZF2 evil?

Not really. Just a different niche.

Enterprise isn't only complexity

- Stable API.
- Well-tested code.
- Backwards-compatible regular releases.
- Guarantee that vendor will support product for at least X years.
- Well-documented.
- Commercial support, trainings.
- And more...

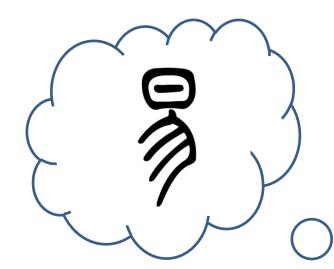
So what's left for practical fellows?

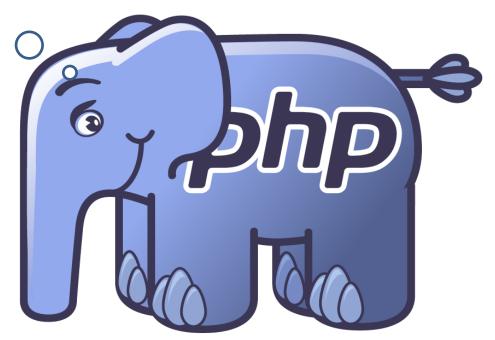
Practical frameworks

- Development should be straightforward.
 We're not doing complex stuff for webapps most of the time.
- Easy learning.
- Less magic.
- Less configuration.
- As simple API as possible.

If **good** parts of enterprise are still there it's perfect

Yii — a **practical** framework





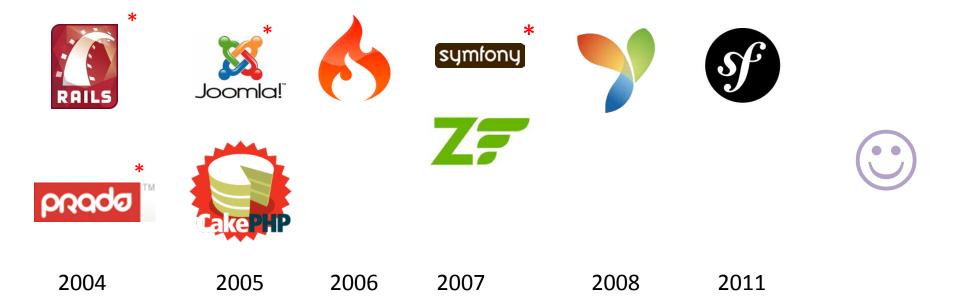
Let's bust some myths first

Framework myths

- If framework reinvented the wheel, it's a bad one.
- If there is DI container and design patterns all over the place, it's a good one.
- If framework X implemented feature Y first, it's better.
- Loosely coupled framework is always a good choice.
- If there's **no feature** X it's a **bad** one.

What's really important

- Easy to learn.
- Easy to debug and fix.
- Doesn't mess with your code or any good thirdparty code.
- Friendly active community.
- BC and stable.
- No roadblocks when trying to extend or customize it.
- Feels good ;)



Prado, c 2004 → Yii 1.0, 2008 → Yii 1.1, 2010

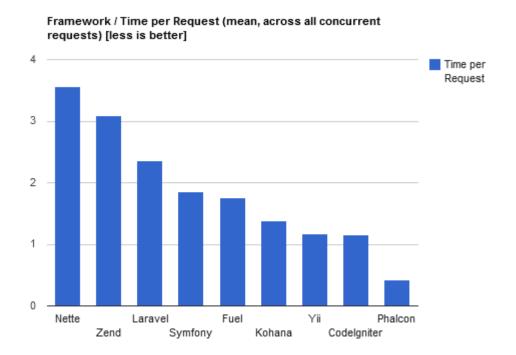
What is Yii?

- ✓ PHP5 MVC.
- ✓ Nice API.
- ✓ DAO, AR, migrations.
- ✓ Form builder.
- ✓ Themes.
- ✓ Test framework.
- ✓ Well documented.
- ✓ Friendly community.

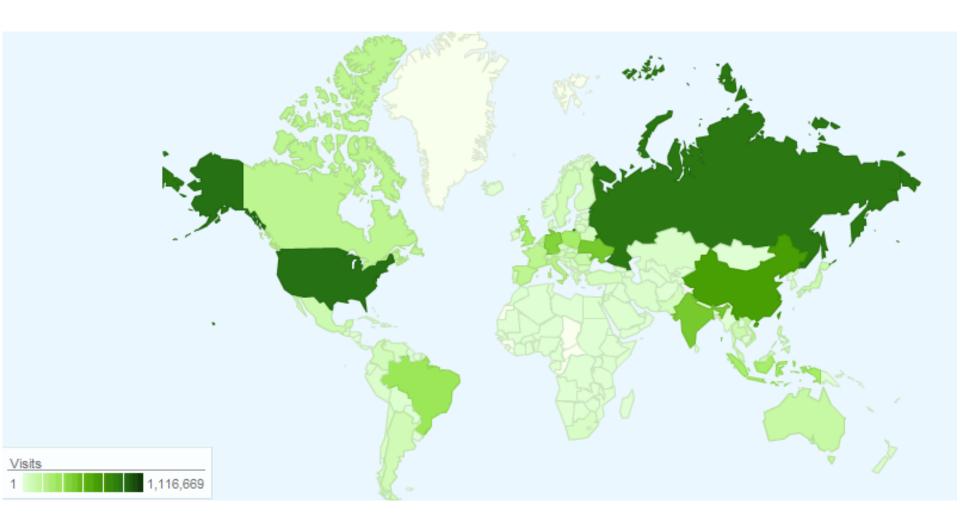
- ✓ Powerful cache.
- ✓ RBAC, auth framework.
- ✓ Console.
- ✓ error handler, log.
- ✓ Gii.
- ✓ CLDR based I18n.
- ✓ Widgets.
- ✓ BSD license.

Still stays the fastest modern PHP framework (excluding some microframeworks and PECL ones).

That's **not** ours benchmark.
 <u>http://docs.phalconphp.com/en/latest/refere</u>
 nce/benchmark/hello-world.html



Getting even faster and less memoryhungry thanks to our GitHub community.



































































1.Balanced

2.Stable

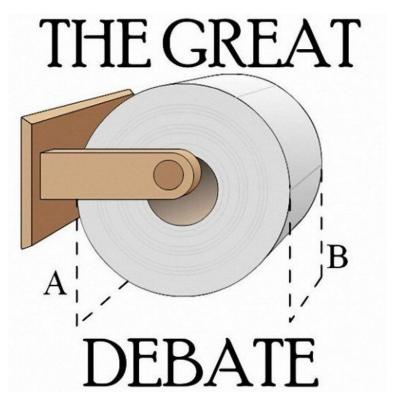
3.Flexible

4.Well-documented

5.Doesn't mess with your stuff

Balance isn't easy to achieve

- Theoretically correct architecture or practical experience?
- 20% or 80%
- Features or core?

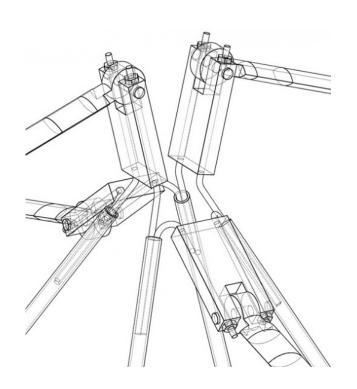


Stable API and BC = good & evil



Flexibility should not mess with simplicity

- As less abstraction as possible.
- It's simple to make things complex. Making things simple isn't.
- Conventions.
- Hide complexity.

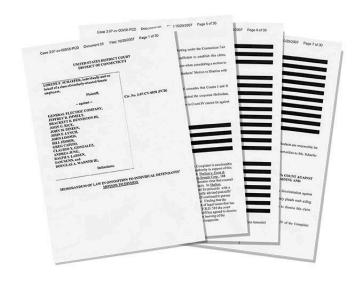


There's not a single setMyCoolFactoryDependencyInjection Container()

in Yii

Docs are very important

- We're documenting as soon as writing code.
- Definitive guide and blog tutorial translated into 16 languages.
- phpdoc.
- Examples.
- Great books.



Yii can work with components from Symfony 2 and ZF2. That's what these are for, right?;)

Yii is **practice oriented** framework

The end?

- Questions?
- Suggestions?
- sam@rmcreative.ru
- @sam_dark
- http://yiiframework.com/

I knew you would ask about it;)

- —PHP **5.3.8+**
- Namespaced classes
- **PSR-0**

- Better **structure**d
- —Less entities
- All the good things are still there



Yii2: base

- New aliases
 @yii/base/Component
- CComponent →
 Object + Component
- SPL instead of custom collections
- Killed CFormModel. Model should be used instead.
- Better rules and scenarios.

```
class MyComponent extends
\yii\base\Object
  public $x;
  public function __construct($a, $b)
      //...
$component = MyComponent::newInstance(
  array('x'=>10),
  'a', 'b'
);
```

Yii2: View Object

- —render(), widget(), beginCache() → viewObject
- View: \$owner = class that called render
- -\$this = View.
- No need for renderers.
- —Can be used in console.
- —CHtml is still there.

Yii2: events

```
$post->on('add',
function($event) { ...
});
$post->trigger('add',
new Event($this));
$post->off('add',
$callback);
$handlers = $post-
>getEventHandlers('add'
```

- No need to declare
- jQuery-like syntax
- Behaviors instead of filters

Yii2: Query object

```
// Query object
$query = new Query;
$query->select('id')->from('tbl_customer')->limit(10);
$command = $db->createCommand($query);
$this->assertEquals("SELECT `id` FROM `tbl customer`
LIMIT 10", $command->sql);
// array
$command = $db->createCommand(array()
       'select' => 'name',
       'from' => 'tbl_customer',
));
```

Yii2: Even better ActiveRecord

```
$customer = Customer::find(2)
       ->active()
       ->one();
$customer->name = 'Qiang';
$customer->save();
$customers = Customer::find()
       ->order('id')
       ->asArray(true)
       ->all();
```

- Finder / Model
- Can create your own finder
- - ::model()
- Autoquotes.
- Method chains.
- Dirty attributes.
- Less memory.
- Can get arrays from AR.

Yii2: AR

```
$postFinder = Post::find()
  ->where(array(
    'active' => true
));
if($isPrivate) {
  $postFinder->addWhere(array(
    'createdBy' => $userId,
  ));
$posts = $postFinder
  ->mergeWith($anotherFinder)
  ->all();
```

- Criteria
- You can merge finders
- You can add conditions on the fly

Yii2: AR

- tableName(),
 relations(), scopes() =
 static.
- HAS_ONE,HAS_MANY relations.
- link = FKs
- via = through
- Scopes via anonymous functions.
- "@." and "?" tokens.Automatic alias. Own table. Foreign table.

```
class Customer extends ActiveRecord {
        const STATUS_ACTIVE = 1;
        public static function tableName() {
                return 'tbl customer';
        public static function relations() {
                return array(
                         'orders:Order[]' => array(
                                 'link' => array('customer id'
=> 'id'),
                         ),
                );
        public static function scopes() {
                return array(
                         'active' => function($q) {
                                 return $q-
>andWhere('@.`status` = ' . self::STATUS_ACTIVE);
                         },
                );
```

Yii2: AR

```
$customers =
Customer::find()->
asArray()->all();

foreach (Customer::find()
as $customer)

$count = Customer::count()
->value();
```

```
$customers =
Customer::find()->active()
->all();
$customers =
Customer::find()
->where('name like :name',
array(
  ':name' => '%customer%'
))->order('id')->all();
```

TODO (if there will be enough time)

- HTTP (CURL) wrapper
- Package manager
- Mailer
- Twitter Bootstrap
- Debug toolbar
- Console requirements
- More helpers

- jQueryUI-based widgets (not just jQueryUI widgets)
- Commercial support
 (most probably not by
 Yii core team members)

1 or 2?

Work with the stable one. 1.1 will be supported till December 31, 2015.

When?

Before we'll push alpha code to github repo we need to finish at least →

- i18n
- Controller + webapp
- A solid base for widgets
- URL manager

The end (really)

- Questions?
- Suggestions?

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