## MAKING THE MOST OF 2.2

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## PACKING IN THE GOOD

- 2.0.0 was release October 18, 2011
- Since then 2.1, 2.2, and 2.3 have been released or started.
- Over 20 releases since 2.0.0.
- Highest release velocity ever for CakePHP.

## FOCUS ON PROBLEMS

We've tried to keep releases focused on solving real world problems developers have everyday.

Make upgrading as easy as possible.

## VIEW BLOCKS

- Multiple similar views would often contain repeated structural HTML.
- Apps suffered from element-itis to keep HTML DRY.
- Piles of elements make code hard to follow and understand.

- Inspired by blocks in Jinja/Twig.
- Allows you to create slots/blocks in layouts or parent templates.
- Helps keep views/layouts more DRY by letting you create extensible HTML content.
- Replaces annoying magic variables like \$scripts\_for\_layout
   and \$content\_for\_layout.

### **EXAMPLE**

Parent wrapper view with a child view

#### **PARENT VIEW**

```
<hl class="content-title"><?= $this->fetch('title'); ?></hl>
<div class="content">
<?= $this->fetch('content'); ?>
</div>
<div class="sidebar">
<?= $this->fetch('sidebar'); ?>
</div>
<?php if ($this->fetch('pagination')): ?>
<div class="pagination">
<?= $this->fetch('pagination'); ?>
</div>
<?php endif; ?></div>
<?php endif; ?>
```

#### **CHILD VIEW**

```
<?php $this->extend('../common/sidebar.ctp'); ?>
<?php $this->assign('title', 'Product list'); ?>
<?php $this->start('content'); ?>
This is the content
<?php $this->end(); ?>

This is a sidebar
<pp $this->end(); ?>
this ->end(); ?>
this is a sidebar
<pp $this->end(); ?>
</pr>
```

## JSON & XML VIEWS

- Previously creating JSON and XML views that just serialized data was a pain.
- Tons of repetitive views and layout files required.

- Two view classes that allow you to easily serialize data for simple uses.
- Special \_serialize view variable defines which view variables should be serialized.
- You can also use normal view files if you need to massage data first.
- Integrates well with existing features like exception handling and RequestHandlerComponent.

### **EXAMPLE**

## HASH CLASS

- Set is full of inconsistencies. Both in the API and path selector syntax.
- Set::extract() while powerful, is slow and insane inside.
- xpath-ish syntax full of un-fixable bugs and not supported in most methods.

- Hash implements >90% of Set's API.
- All methods have a consistent signature.
- The same dot notation features are supported everywhere.
- Up to 1.6x faster on extract().
- Most methods are faster as well.

### PERFORMANCE COMPARISONS

Do a similar operation 1000 times, on the same data.

1.1x improvement

```
Hash::extract($d, '{n}.Comment.{n}.id') 0.173635005
Set::extract('/Comment/id', $d) 0.201920986
1.1x improvement
```

Hash::maxDimensions(\$d)

Set::countDim(\$d, true)

7.6x improvement

0.075587987

0.575523138

#### **API CONSISTENCY**

- Every method takes an array of data as the first argument.
- Second argument is always one or more paths.
- A consistent API is easier to document, understand and remember.

## CAKETIME & CAKENUMBER

- TimeHelper, NumberHelper and TextHelper have some very useful methods.
- But they are all trapped in a helper.

- Expose non HTML related features as a utility library.
- Greatly improve timezone handling.
- New features for testing & working with datetimes.

### **EXAMPLE**

```
<?php
App::uses('CakeTime', 'Utility');
App::uses('CakeNumber', 'Utility');

$utc = CakeTime::toServer($datetime, 'America/Toronto');
$today = CakeTime::isToday($timestamp);

$result = CakeNumber::toReadableSize($oneTerabyte);</pre>
```

## LOGGING++

- Granular logging based on application section was impossible.
- Log messages were simply broadcast to every connected logger.

- Borrowed idea of logging 'scopes' from python's logging module.
- Log messages can be tagged with scopes.
- Only loggers interested in those scopes will get scoped messages.

### ATTACH A LOGGER WITH A SCOPE

### LOG MESSAGES WITH A SCOPE

# NOW TO JOSE