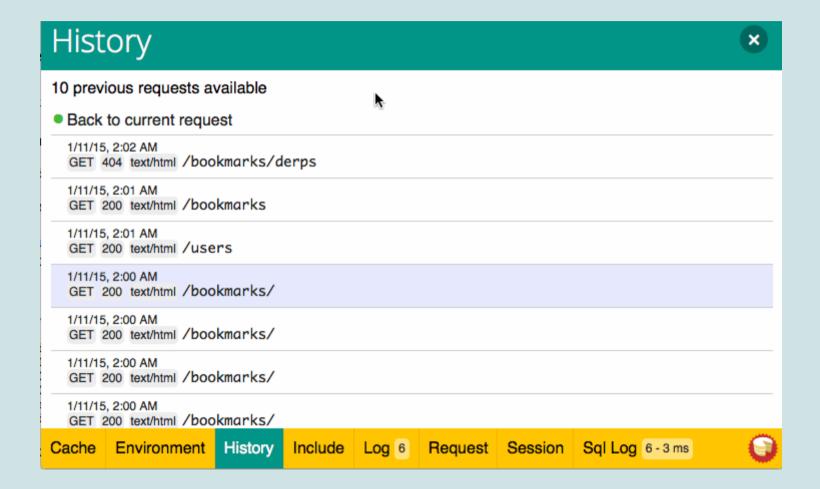
The Hidden Gems in CakePHP 3

DebugKit

Ajax history



I18n and Formatting

Number::config()

- Intl already knows what is the standard way of representing a number for every locale
- But, you can tweak it a it.
- You can pre-configure the number formatter per locale

```
Number::config('fr_FR', [
   'precision' => 3,
   'places' => 2
]);
Number::format($someAmount, ['locale' => 'fr_FR']);
$formatter = Number::formatter(['locale' => 'fr_FR']);
$formatter->format($someAmount);
```

 You can also add more configuration to the formatter object using the INTL constants

Intl Message Formatter

 You can create feature rich and complex translation strings using the INTL message formatter

It supports modifiers such as:

- time
- date
- number
- float
- integer
- currency

Intl Message Formatter

• You can also select the right plural rules without using the __n() function

```
"{gender_of_host, select, "
 "female {"
   "{num_guests, plural, offset:1 "
     "=0 {{host} does not give a party.}"
     "=1 {{host} invites {guest} to her party.}"
     "=2 {{host} invites {guest} and one other person to **her** party.}"
     "other {{host} invites {guest} and # other people to her party.}}}"
 "male {"
   "{num_guests, plural, offset:1 "
     "=0 {{host} does not give a party.}"
     "=1 {{host} invites {guest} to his party.}"
     "=2 {{host} invites {guest} and one other person to **his** party.}"
     "other {{host} invites {guest} and # other people to his party.}}}"
 "other {"
   "{num guests, plural, offset:1 "
     "=0 {{host} does not give a party.}"
     "=1 {{host} invites {guest} to their party.}"
     "=2 {{host} invites {guest} and one other person to **their** party.}"
     "other {{host} invites {guest} and # other people to their party.}}}"
```

More context in translations

- Translation messages are more often than not something ambigous
- This can be solved by using the context functions

```
echo __x('used for uploading a profile image image', 'Upload');
echo __x('used for auploading a file', 'Upload');
```

• The context is the fists argument of the function

Shell utilities

Creating a diff between database versions

- Create an initial migration snapshot
- Directly modify your database
- Bake a migration diff
- Profit

bin/cake migrations dump

bin/cake bake migration_diff AddingImporatantTrackingColumns

Showing progress in shells

```
$work = function ($progress) {
    // Do work here.
    ...
    $progress->increment(20);
    $progress->draw();

    // Do more work
    ...
    $progress->increment(80);
    $progress->draw();
};
$this->helper('Progress')->output(['callback' => $work]);
```

Formatting tables in shells

```
$data = [
    ['Header 1', 'Header', 'Long Header'],
    ['short', 'Longish thing', 'short'],
    ['Longer thing', 'short', 'Longest Value'],
];
$this->helper('Table')->output($data);
```

Fancy methods

Validation builders

Before

```
$validator->add('some_field', 'rule_name', [
    'rule' => ['email'],
    'message' => 'This is wrong'
]);

$validator->add('another_field', 'rule_name', [
    'rule' => ['url'],
    'message' => 'This is wrong too'
]);
```

After

```
$validator->email('some_field', 'This is wrong');
$validator->url('another_field', 'This is wrong too');
```

So many date methods!!

```
// These getters specifically return integers, ie intval()
var_dump($dt->year);
                                                               // int(2012)
var dump($dt->month);
                                                               // int(9)
var_dump($dt->day);
                                                               // int(5)
var_dump($dt->hour);
                                                               // int(23)
var_dump($dt->minute);
                                                               // int(26)
var dump($dt->second);
                                                               // int(11)
var dump($dt->micro);
                                                               // int(123789)
var_dump($dt->day0fWeek);
                                                               // int(3)
var dump($dt->day0fYear);
                                                               // int(248)
var dump($dt->week0fMonth);
                                                               // int(1)
var dump($dt->weekOfYear);
                                                               // int(36)
var_dump($dt->daysInMonth);
                                                               // int(30)
var_dump($dt->timestamp);
                                                               // int(1346901971)
```

• Chronos is a fork of Carbon, adding quite a few improvements on top

Routes are built with functions

```
$builder = function ($routes) {
    $routes->addExtensions(['json']);
    $routes->connect('/', ['action' => 'index']);
    $routes->connect('/add', ['action' => 'add']);
    $routes->connect('/:id', ['action' => 'view'], ['pass' => ['id']]);
    $routes->connect('/:id/edit', ['action' => 'edit'], ['pass' => ['id']]);
    $routes->connect('/:id/:action/*', [], ['pass' => ['id']]);
    $routes->connect('/search', ['action' => 'lookup']);
};
$withDelete = function ($builder) {
  return function ($routes) use ($builder) {
    $builder($routes);
    $routes->connect('/:id/delete', ['action' => 'delete'], ['pass' => ['id']]);
};
Router::scope('/posts', ['controller' => 'Posts'], $builder);
Router::scope('/users', ['controller' => 'Users'], $builder);
Router::scope('/tags', ['controller' => 'Tags'], $withDelete($builder));
```

Custom configuration

• Many of the configuration classes can take a function

```
use Monolog\Logger;
use Monolog\Handler\StreamHandler;

Log::config('default', function () {
    $log = new Logger('app');
    $log->pushHandler(new StreamHandler('path/to/your/combined.log'));
    return $log;
});

ConnectionManager::config('default', function () {
    return new Connection(...);
```

This is handy for testing

});

ORM Candy

Create your own expression classes

```
class MatchAgainstExpression implements ExpressionInterface
  public function __construct(array $match, $against, $booleanMode = false)
    $this->fields = $match;
    $this->against = against;
    $this->booleanMode = $booleanMode;
 public function sql(ValueBinder $generator) {
    return sprintf(
      'MATCH (%s) AGAINST (%s) %',
      $this->toSQL($this->fields, $generator),
      $this->toSQL($this->againt, $generator),
      $this->booleanMode ? 'IN BOOLEAN MODE' : ''
   );
```

```
$query->select(['score' => new MatchAgainstExpression(['full_name'], $name, true)]);
```

Global function are OK

Create functions for custom expressions

```
function matchAgainst(array $fields, $against, $booleanMode = false) {
  return new MatchAgainstExpression($fields, $against, $booleanMode);
}

$query->select(['score' => matchAgainst(['name'], $name, true)]);
```

Have many of them!

```
$query->where(between('price', 10, 100));
```

Where did this query come from?

```
$this->Things
->find('myThings')
->where($conditions)
->modifier(sprintf('/* %s - %s */'), __FUNCTION__, __LINE__);
```

Outputs

```
SELECT /* ThingsController::index() - 33 */
  some_fields
WHERE
  conditions
```

Yes, you can make it generic

• Hint: Debugger::trace() in the buildQuery() method of the table

Prevent callbacks in behaviors

You can alway add a kill switch flag to each of your custom behaviors:

```
$table->save($entity, ['noAutditLog' => true]); // Incognito mode
```

In your behavior

```
public function beforeSave(Event $event, Entity $entity, $options)
{
   if (!empty($options['noAutditLog'])) {
      return;
   }
   ...
}
```

Use the table object in select()

Are you lazy and don't want to list all the table's columns?

```
$table->find()
  ->select(['only_one_column'])
  ->contain('Stuff')
  ...
  ->select($table->Stuff);
```

It works with instances of Table and Association

Why \$query->func()?

You can just this, of course...

```
$beforeQuery->select(['total' => 'SUM(price)'])
```

Why use this instead?

```
$afterQuery->select(['total' => $afterQuery->func()->sum('price')])
```

The answer is in the result:

```
// Before
{
    "total": "245.2"
}

// After
{
    "total": 245.2
}
```

What time is it really?

Get the right Time object for a column

```
$maybeDateFromInput = $request->data('date_field');
$type = $table->schema()->columnType('date_column');
$parseDateObject = Type::build($type)->marshall($maybeDateFromInput);
```

This is useful when doing behaviors or plugins where you want to adapt to multiple different database schemas.

Upsert all the things!

You can load the same CSV structure and do an insert or replace automatically

```
$epilog = collection($columsn)->map(function($col) {
   return "$col = VALUES($col)";
});

$insertQuery = $connection->newQuery();
$insertQuery =
    ->insert($columns)
    ->into('users')
    ->epilog('ON DUPLICATE KEY UPDATE ' . join(', ', $epilog->toList()));
```

Chunk that insert

We can now use our insert query

```
collection($csvLines)
  ->chunk(1000)
  ->each(functtion ($values) use ($insertQuery) {
     $inserQuery
        ->values($values)
        ->execute();
});
```

Load more association data

After You have loaded an entity, you can load more associated data later on

```
$post = $this->Posts->get($id);
...

$post = $this->Posts->loadInto($post, ['Comments']);
count($post->comments);
```

loadInto() is the secret sauce

Check jeremyharris/cakephp-lazyload

Subqueries are a thing

```
$subquery = $comments->find('theBest');
```

They basically work everywhere

```
$query
->select(['the_alias' => $subquery])
->where(['a_column' => $subquery])
->from(['table_alias' => $subquery])
->innerJoin(['join_alias' => subquery])
```

Yes, fixtures are classes too

```
class PostsFixture extends TestFixture
{
  public $fields = [
    ...
  ];

  // No $records property

  public function insert($connection)
  {
    $records = json_decode('/path/to/posts_fixtures.json');
    $connection
    ->newQuery()
    ->insert(array_keys($this->fields))
    ->values($records)
    ->execute();
  }
}
```

Questions?