

Karsten Dambekalns

# TYPO3 5.0

## Milestone in Sight

**Right now there is a lot of activity surrounding TYPO3 5.0: developers can already play with the components of the new system. If you can't make it to T3CON07 at Karlsruhe, the following will let you know what has happened with the Framework, TypoScript and content repository since the last article.**

If you follow the mailing list for 5.0 you will have noticed that periods of heightened activity (such as the discussion surrounding TypoScript) seem to give way to periods of rest. Behind the scenes, however, such periods of rest have become less common. Rather, steady development [1] has followed steady planning, the results of which are presented here.

### The TYPO3 Framework

As announced in the last article, the TYPO3 Framework has developed especially in the area of MVC – now there is even a lovely default view.

Following extensive research into PHP, Ajax and JavaScript Frameworks as well as several test projects, Robert Lemke has combined the best designs. In the course of this development the present code was rewritten several times and designs adopted from the world of GUI toolkits, especially from Qt.

For the future there are already extensive plans in the pipeline, plans which all have one aim in common, namely to allow the developers to concentrate on what really matters: the business logic. More is involved than hastily constructing a Framework for a web application with so-called scaffolding. Rather, the TYPO3 Framework will serve as a solid building in which it is good to work. For example, all jobs concerning the user interface will be greatly simplified so that no PHP programmer will ever have to swot up on JavaScript again.

### TypoScript 2.0

One of the most important components of TYPO3 is TypoScript. It lends the system a flexibility that is not to be found elsewhere. Unfortunately, in the eyes of many, it is one of the reasons for the steep learning curve that confronts beginners. One of the early goals was to flatten this learning curve (and to make life easier for TYPO3 pros) by reworking TypoScript in such a way as to simplify the syntax and make the language more consistent. To this end the syntax was discussed with system users and changed accordingly. The result is noted as EBNF [2].

In the meantime the new TYPO3 parser has been completed, so that the new syntax can be converted into an object-based tree. Internally, all TYPO3 objects correspond to objects in PHP. Heredity ensures consistency.

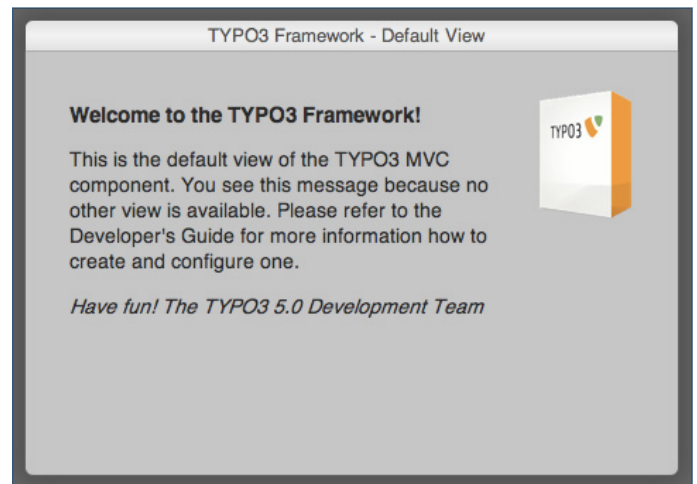
TypoScript is ready to use and several old friends have been newly implemented into the CMS package already: text, content array, page and template.

There is also a new member of the 5.0 team. From now on Andreas Förthner will be pushing the work surrounding TypoScript ahead.

### The TYPO3 Content Repository

There has been movement around the content repository too. Java and Jackrabbit have done their time, and JSR-170 has become old hat too. Instead, the bar was raised and the next version of the JSR specification, JSR-283, was selected as the new goal. And so

that this does not remain a mere goal, implementation has already begun [3]. Concurrently, the JSR-283 interfaces are to be ported from Java to PHP and customized where necessary.



A lot has happened in the field of MVC – now there is even a default view.

### The Bleeding Edge

A few words about life at the frontline of technical development: it isn't easy. Stumbling blocks included errors in PHP6, and running a test infrastructure is no walk in the park when important components are not yet running on PHP6. For this reason there is as yet no API documentation ready on the development server: here we are waiting for a PHP-compatible version of phpDocumentor. Much the same applies to the automatic unit tests on the development server, where at the moment Phing is creating problems. So whoever is looking for a clearly defined task and would like to get into PHP6 should drop the team a line: there is still much to be fixed!

### Going Public



The TYPO3 content repository is a further project on the basis of the TYPO3 Framework.

Especially in the early planning stage, the team was working in relative seclusion so as to be able to pursue new avenues in tranquility. That said, the team always kept an open mind and ideas from the outside were thoroughly examined. And yet the information flow in the opposite direction was sometimes very restricted, in the hope that ideas and concepts would mature before being exposed to open discussion. Those days are over!

The new era of communication begins in September at T3-CON07 at Karlsruhe [4]. There will be a couple of presentations on TYPO3 and these will be supplemented with sessions by Boris Kraft and David Nüscheler on the Java content repository, and by Andrei Zimievski on PHP6, Unicode and I18N.

The next appearance will be in November at the International PHP Conference in Frankfurt [5]. There too the team will be represented by two presentations.

#### Presentations concerning TYPO3 at the IPC

- Writing beautiful code with AOP and Dependency Injection.
- Implementing a JSR-283 Content Repository in PHP

The developers are eager to see how the new TYPO3 Framework with its far-reaching possibilities will be taken up by the PHP community outside the TYPO3 scene.

#### Gimme Five!

In the coming weeks and months we will keep moving forward – and the team welcomes all kinds of support. From thankyou emails to manpower to cheques, (almost) everything will be accepted. In this spirit: gimme five!

#### Links and Literature

☞ *Softlink 1856*

- [1] Timeline: <https://5-0.dev.typo3.org/trac/TYPO3/timeline>
- [2] EBNF: [https://5-0.dev.typo3.org/svn/TYPO3/Packages/TypoScript/Documentation/TypoScript\\_Grammar\\_EBNF.txt](https://5-0.dev.typo3.org/svn/TYPO3/Packages/TypoScript/Documentation/TypoScript_Grammar_EBNF.txt)
- [3] TYPO3 Content Repository: <https://5-0.dev.typo3.org/trac/TYPO3/browser/Packages/TYPO3CR>
- [4] T3CON07: <http://t3con07.typo3.org/>
- [5] PHP Conference: <http://phpconference.com/>

#### THE AUTHOR



Karsten Dambekalns lives in Brunswick with his wife, Līga, two children and a nameless coffee machine. He works at fishfarm netsolutions, which he founded in 2000. Two years after first encountering TYPO3 he first stood on stage at T3-BOARD04 and a short while later got behind the implementation of the DBAL project. Since 2005 he has been a core developer and an active member of the

TYPO3 Association.