Core - Feature # 31893

Status:	Resolved		**Priority:**	Should have
Author:	Benjamin Mack		**Category:**	
Created:	2011-11-17		**Assigned To:**	Benjamin Mack
Updated:	2014-02-20		**Due date:**	

PHP Version:	5.3
Complexity:	
Sprint Focus:	

Subject:	Allow XCLASSes to be defined via ext_autoload.php

Description

For XCLASSes to work currently, one needs to

a) set the according XCLASS statement in every PHP file that can/should be subclassed
b) use this XCLASS statement in an extensions' ext_localconf.php to include the subclass statement

This process is somehow unflexible, produces code, and as it is somehow incomplete for some classes, a hassle to maintain.

The attached change does the following:
 1) It makes use of the autoloader to search for classes of the XCLASS prefix "ux_*" as well.
 2) It provides a way to also include the XCLASS paths via the "old way", but sends a deprecation warning for that.

There is one drawback however right now: There is no how an admin can see which XCLASSes are currently in use with "the new way" as the admin cannot browse the ext_autoload.php files of all extensions through the backend in a nice way.

Also: Beware that you might need to clear your autoload cache when trying out this feature, which you can do with a simple "rm -rf Cache/Code/cache_phpcode/*"

There is a small extension that I've built that you can use to try out. This extension should work without the patch on a plain introduction package as it just includes the XCLASS statement in ext_localconf.php. The extension XCLASSes tslib_fe and replaces the title "Introduction Package" before outputting the content. Now, you should remove the XCLASS statement in typo3/sysext/cms/tslib/class.tslib_fe.php at the very last lines. Now, the XCLASS (of course) does not work anymore. However, the extension itself has a ext_autoload.php, so after applying the patchset the XCLASS will work again, as the autoloader loads the XCLASS now. Maybe you need to clear your autoloader-cache for that though (see above).

Everything works as before now, even the limitation that only one XCLASS can be used of course still applies. The XCLASS to use is of course the one of the last extension installed, same principle as before, just not in the ext_localconf.php anymore, but in ext_autoload.php.

The advantages of "the new XCLASS way":

  - "faster?" - Less initialization in ext_localconf.php, only when it is needed
  - "more flexible" - XCLASS every class in use now
  - "more transparent" - no XCLASS statement on the bottom of each core class anymore

I'm also interested how this affects the overall performance.

Further jobs once this is included in the TYPO3 Core:
    - Update documentation properly, add it to the release notes of TYPO3 4.7
      - Remove XCLASS statements from all core files
      - Create a Status Report about it that an installation still uses wrong XCLASS syntax

- Talk about it, Blog about it

Subtasks:

Bug # 36184: Remove XCLASS blocks from t3lib	**Resolved**
Bug # 36183: Make dbal compatible with the new XCLASS schema.	**Resolved**
Bug # 36821: Remove XCLASS definitions from typo3/	**Resolved**
Task # 36825: Remove XCLASS definitions	**Resolved**
Feature # 38123: Add check to Reports module for usage of old XCLASS method	**Resolved**
Feature # 38129: Provide overview for admins of new XCLASS usage	**Closed**

Related issues:

related to Core - Bug # 36690: Add unit tests to new autoloader XCLASS handling	**Resolved**	2012-04-28
related to Core - Bug # 36698: Clean up XCLASS handling and comments	**Resolved**	2012-04-29
related to Core - Bug # 36826: Remove XCLASS definitions in ext:version	**Resolved**	2012-05-03
related to Core - Bug # 38271: Remove XCLASS definitions in ext:workspace	**Resolved**	2012-06-21
related to Core - Bug # 38273: Remove last XCLASS statements	**Resolved**	2012-06-21
related to Core - Bug # 36703: Fix old XCLASS deprecation log	**Resolved**	2012-04-29

Associated revisions

Revision 59328ee9 - 2012-04-16 22:32 - Benjamin Mack

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This process is somehow unflexible, requires more code, and since
it is missing for some classes, it's also a hassle to maintain.

The attached change does the following:
1) Use the autoloader to search for classes prefixed by "ux_*"
2) Provide a backwards compatibility layer

TODO: Provide a possibility for BE admins to see which XCLASSes
are currently in use with this new method.

Change-Id: I4af4116108fecd9df0874c3e07e10b86f74d556e
Resolves: #31893
Releases: 6.0
Reviewed-on: http://review.typo3.org/6717
Reviewed-by: Tolleiv Nietsch
Tested-by: Tolleiv Nietsch
Reviewed-by: Jigal van Hemert
Tested-by: Jigal van Hemert

Revision 6fbe111d - 2012-04-28 15:05 - Christian Kuhn

[TASK] Add unit tests to new autoloader XCLASS handling

Add missing tests to the autoloader test case to test the new XCLASS
handling of issue #31893. The patch also fixes a minor error when writing
registered XCLASS files to the autoloader cache file. This error is
covered by the third added test.

Change-Id: I394c05a48ee2a2796299e72b17840689432212a2
Resolves: #36690
Related: #31893
Releases: 6.0
Reviewed-on: http://review.typo3.org/10843
Reviewed-by: Susanne Moog
Tested-by: Susanne Moog
Reviewed-by: Christian Kuhn
Tested-by: Christian Kuhn

Revision 46c04189 - 2012-04-29 13:07 - Christian Kuhn

[TASK] Clean up XCLASS handling and comments

Clean up some of the comments of the new XCLASS handling, separate
the deprecation handling to an own method and add a NEWS.txt entry.

Change-Id: I16a828e15c8e3d347b8b331ffb554ac42aa82644
Resolves: #36698
Related: #31893
Releases: 6.0
Reviewed-on: http://review.typo3.org/10865
Reviewed-by: Christian Kuhn
Tested-by: Christian Kuhn

Revision 23d66ab1 - 2012-04-29 15:06 - Benjamin Mack

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Reviewed-by: Tolleiv Nietsch

Tested-by: Tolleiv Nietsch

Reviewed-by: Jigal van Hemert

Tested-by: Jigal van Hemert

Revision 579b2897 - 2012-04-29 15:06 - Christian Kuhn

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Resolves: #36690

Related: #31893

Releases: 6.0

Reviewed-on: http://review.typo3.org/10843

Reviewed-by: Susanne Moog

Tested-by: Susanne Moog

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision 0f756fd3 - 2012-04-29 15:06 - Christian Kuhn

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Resolves: #36698

Related: #31893

Releases: 6.0

Reviewed-on: http://review.typo3.org/10865

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision 6529f1d6 - 2012-05-03 22:33 - Christian Kuhn

[TASK] Remove XCLASS definitions from typo3/

Remove all XCLASS definitions in typo3/ and all system extension
that are not handled as git submodules.

Change-Id: Ib9e1d8db31f91f5f1453deb694f2441ef41130f2

Resolves: #36821

Related: #31893

Releases: 6.0

Reviewed-on: http://review.typo3.org/10981

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision f5a54f75 - 2012-06-21 23:10 - Christian Kuhn

[TASK] Remove XCLASS definitions in ext:workspace

All XCLASS definitions can be removed in TYPO3 6.0

Change-Id: I2c168307f2d23dfad8151db7c68e9140993b691d

Resolves: #38271

Related: #31893

Releases: 6.0

Reviewed-on: http://review.typo3.org/12277

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision d7253a30 - 2012-06-21 23:33 - Christian Kuhn

[TASK] Remove last XCLASS statements

Remove last XCLASS statements that were left out during first cleanup.

Change-Id: I475725926f9ab0bb4e0c484811eb5d59971177b6

Resolves: #38273

Related: #31893

Releases: 6.0

Reviewed-on: http://review.typo3.org/12279

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision 9fc68b15 - 2012-06-23 23:42 - Christian Kuhn

[TASK] Remove XCLASS definitions from typo3/

Remove all XCLASS definitions in typo3/ and all system extension
that are not handled as git submodules.

Change-Id: Ib9e1d8db31f91f5f1453deb694f2441ef41130f2

Resolves: #36821

Related: #31893

Releases: 6.0

Reviewed-on: http://review.typo3.org/10981

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Revision df5111ec - 2012-06-23 23:42 - Christian Kuhn

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Resolves: #38273
Related: #31893
Releases: 6.0
Reviewed-on: http://review.typo3.org/12279
Reviewed-by: Christian Kuhn
Tested-by: Christian Kuhn

History

#1 - 2011-11-17 20:27 - Mr. Hudson

Patch set 1 of change I4af4116108fecd9df0874c3e07e10b86f74d556e has been pushed to the review server.
It is available at http://review.typo3.org/6717

#2 - 2011-11-30 10:17 - Steffen Ritter
- Target version set to 4.7.0-alpha2

#3 - 2011-12-07 00:21 - Gerrit Code Review

Patch set 2 for branch **master** has been pushed to the review server.
It is available at http://review.typo3.org/6717

#4 - 2011-12-20 22:50 - Oliver Hader
- Target version changed from 4.7.0-alpha2 to 4.7.0-alpha3

#5 - 2012-02-13 09:42 - Steffen Ritter
- Target version changed from 4.7.0-alpha3 to 4.7.0-beta1

#6 - 2012-03-05 17:36 - Steffen Ritter
- Target version deleted (4.7.0-beta1)

#7 - 2012-04-13 15:07 - Gerrit Code Review

Patch set 3 for branch **master** has been pushed to the review server.
It is available at http://review.typo3.org/6717

#8 - 2012-04-13 16:57 - Gerrit Code Review

Patch set 4 for branch **master** has been pushed to the review server.
It is available at http://review.typo3.org/6717

#9 - 2012-04-13 17:03 - Gerrit Code Review

Patch set 5 for branch **master** has been pushed to the review server.
It is available at http://review.typo3.org/6717

#10 - 2012-04-13 18:40 - Michael Stucki

Regarding backwards compatibility:

Let's add an update wizard to scan all ext_localconf.php files in loaded extensions.
Additionally, extdeveval might be used to convert these inclusions automatically.

#11 - 2012-04-14 14:54 - Gerrit Code Review

Patch set 6 for branch **master** has been pushed to the review server.
It is available at http://review.typo3.org/6717

#12 - 2012-04-16 17:08 - Gerrit Code Review

Patch set 7 for branch **master** has been pushed to the review server.
It is available at http://review.typo3.org/6717

#13 - 2012-04-17 02:30 - Benjamin Mack

- Status changed from Under Review to Resolved
- % Done changed from 0 to 100

Applied in changeset commit:59328ee9aee6141a68259cc3196f06731b678277.

Files

T3X_xclasstester-0_0_0-z-201111172007.t3x	2.6 kB	2011-11-17	Benjamin Mack