

TYPO3 Core - Bug #82636

concatenation changes include order of CSS files, breaks CSS.

2017-10-02 15:37 - Leonie Philine Bitto

Status:	New	Start date:	2017-10-02
Priority:	Must have	Due date:	
Assignee:		% Done:	0%
Category:	Frontend	Estimated time:	0.00 hour
Target version:		Complexity:	
TYPO3 Version:	8	Is Regression:	
PHP Version:	7.1	Sprint Focus:	
Tags:			

Description

I have some `cssInline`, which is automatically externalized into a `css` file (via `config.removeDefaultJS = external`). And I have some `CSS` files, included via `default.page.includeCSS`.

In the source code, they show up like:

```
<link rel="stylesheet" type="text/css" href="/fileadmin/site/framework/css/bootstrap.min.css?1506943541" media="all">
<link rel="stylesheet" type="text/css" href="/fileadmin/site/framework/css/main.css?1506943541" media="all">
<link rel="stylesheet" type="text/css" href="/fileadmin/site/framework/css/additions.css?1506943541" media="all">
<link rel="stylesheet" type="text/css" href="/fileadmin/site/framework-nc/css/main.css?1506694395" media="all">
<link rel="stylesheet" type="text/css" href="https://somedomain.tld/css/main.css" media="all">
<link rel="stylesheet" type="text/css" href="/typo3temp/assets/css/436ba33024.css?1506927672" media="all">
```

You see the externalized one at the bottom.

The externalized one is automatically `"excludeFromConcatenation"`, because that's how things are done in `\TYPO3\CMS\Frontend\Page\PageGenerator::addCssToPageRenderer()` when called from `\TYPO3\CMS\Frontend\Page\PageGenerator::renderContentWithHeader()`:

```
self::addCssToPageRenderer($cssPageStyle, true, 'InlinePageCss');
```

Now when concatenating the other files, suddenly this external file (`page.cssInline`) which is used to override some `CSS` of the above files, appears at the TOP of the list. Why?

Because this does not work in `\TYPO3\CMS\Core\Resource\ResourceCompressor::concatenateCssFiles()`:

```
// place the merged stylesheet on top of the stylesheets
$cssFiles = array_merge($cssFiles, [$targetFile => $concatenatedOptions]);
```

At this point, `$cssFiles` is this:

```
Array
(
    [typo3temp/assets/css/edcla6c625.css] => Array
        (
            [file] => typo3temp/assets/css/edcla6c625.css
            [rel] => stylesheet
            [media] => all
            [title] =>
            [compress] =>
            [forceOnTop] =>
            [allWrap] =>
            [excludeFromConcatenation] => 1
            [splitChar] => |
        )
)
```

And `[$targetFile => $concatenatedOptions]` is this:

```

Array
(
    [typo3temp/assets/compressed/merged-9e3a4540615f81c720077bca7cad010d.css] => Array
        (
            [file] => typo3temp/assets/compressed/merged-9e3a4540615f81c720077bca7cad010d.css
            [rel] => stylesheet
            [media] => all
            [compress] => 1
            [excludeFromConcatenation] => 1
            [forceOnTop] =>
            [allWrap] =>
        )
)

```

after the `$cssFiles = array_merge($cssFiles, [$targetFile => $concatenatedOptions])`, you get this:

```

Array
(
    [typo3temp/assets/css/edc1a6c625.css] => Array
        (
            [file] => typo3temp/assets/css/edc1a6c625.css
            [rel] => stylesheet
            [media] => all
            [title] =>
            [compress] =>
            [forceOnTop] =>
            [allWrap] =>
            [excludeFromConcatenation] => 1
            [splitChar] => |
        )

    [typo3temp/assets/compressed/merged-9e3a4540615f81c720077bca7cad010d.css] => Array
        (
            [file] => typo3temp/assets/compressed/merged-9e3a4540615f81c720077bca7cad010d.css
            [rel] => stylesheet
            [media] => all
            [compress] => 1
            [excludeFromConcatenation] => 1
            [forceOnTop] =>
            [allWrap] =>
        )
)

```

So, now the concatenated file is below the `page.cssInline` file - the previous include order is not preserved.

Therefore, `array_merge()` is not the right method here - or the `array_merge()` parameters need to be exchanged. The comment line above the `array_merge()` even says:

```
// place the merged stylesheet on top of the stylesheets
```

But that's not happening - it is placed below the stylesheets, not on top.

Could it be that this is a regression?

History

#1 - 2017-10-17 22:06 - Susanne Moog

- Category set to *Frontend*

#2 - 2018-07-13 14:11 - Julian Hofmann

Maybe a workaround: `includeCSSLibs` stay on top of the CSS includes.

#3 - 2019-06-27 14:23 - Wolfgang Wagner

- *TYPO3 Version changed from 8 to 9*
- *PHP Version changed from 7.1 to 7.2*

Bug still exists in TYPO3 9.5.8

#4 - 2019-06-27 14:25 - Wolfgang Wagner

- *TYPO3 Version changed from 9 to 8*
- *PHP Version changed from 7.2 to 7.1*

Ups, sorry, accidently changed TYPO3 and PHP-Version...

#5 - 2020-05-20 17:57 - David Bruchmann

I also have some problems to sort the files in the desired order, the file with the default styles is not sorted at the correct position in TYPO3 version 10.

I expect it being after includeCSSLibs but before includeCSS, so that I can override default styles but the default styles are sorted at the bottom of the list.

Currently I (mis)used headerData to place references to individual stylesheets at last, they are then after the JavaScript-files.