

# CUNY Academic Commons - Bug #10564

## PHP 7.2 Incompatibility Problems

2018-10-19 11:46 AM - Raymond Hoh

<b>Status:</b> Resolved	<b>Start date:</b> 2018-10-19
<b>Priority name:</b> Normal	<b>Due date:</b>
<b>Assignee:</b> Raymond Hoh	<b>% Done:</b> 0%
<b>Category name:</b> WordPress Plugins	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 1.14.1	
<b>Description</b>	
Saw this in the error logs.	
Sociable is one of the plugins we hide from sites that do not have it already activated. It uses split(), which has been removed in PHP 7.0.	
Not sure why our linter did not pick this up. Going to apply a hotfix in a bit.	
<b>Related issues:</b>	
Related to CUNY Academic Commons - Bug #10570: CUNY DHI landing page broken a...	<b>Resolved</b> <b>2018-10-22</b>
Related to CUNY Academic Commons - Bug #10563: clicking on links from site m...	<b>Resolved</b> <b>2018-10-19</b>
Related to CUNY Academic Commons - Bug #10562: Commons is down	<b>Rejected</b> <b>2018-10-19</b>
Related to CUNY Academic Commons - Bug #10588: Missing social icons in Lucid ...	<b>Resolved</b> <b>2018-10-24</b> <b>2018-10-30</b>
Related to CUNY Academic Commons - Bug #10689: Featured Image Error	<b>Resolved</b> <b>2018-11-09</b>
Related to CUNY Academic Commons - Bug #10560: PressForward Feed Reader hung ...	<b>Resolved</b> <b>2018-10-18</b>
Related to CUNY Academic Commons - Bug #9068: PHP 7.2 compatibility	<b>Resolved</b> <b>2018-01-09</b>
Related to CUNY Academic Commons - Feature #10380: Remove blacklisted plugins	<b>In Progress</b> <b>2018-09-25</b>
Related to CUNY Academic Commons - Bug #12551: Preparing for PHP 7.4	<b>Resolved</b> <b>2020-03-16</b>

### History

#### #1 - 2018-10-19 11:48 AM - Boone Gorges

Thanks for catching this - I have already found some other bugs in a theme and put hotfixes in place. I will open a separate ticket for this.

#### #2 - 2018-10-19 11:51 AM - Raymond Hoh

- Status changed from New to Resolved

Deployed as a hotfix on production here - <https://github.com/cuny-academic-commons/cac/commit/b827169a6e77861bc966e0fa2195f91993231f72>

#### #3 - 2018-10-19 01:59 PM - Raymond Hoh

- Subject changed from Sociable plugin uses removed split() function to PHP 7.2 Incompatibility Problems

- Status changed from Resolved to In Progress

Renamed the issue so we can track other problems with plugins and themes since the PHP 7.2 deployment.

Plugins:

- openbook-book-data - Uses ereg(), which was removed in PHP 7.0. Fixed in <https://github.com/cuny-academic-commons/cac/commit/9dd369e5e17b2d6ea212f9ae30d4d5ce5801cb4f> and deployed as a hotfix.

- tylr-slidr - Uses split(), which was removed in PHP 7.0. Fixed in <https://github.com/cuny-academic-commons/cac/commit/db04371e3632eb1fdc314509d23ac91bb65e67e4> and deployed as a hotfix.

- easy-visualization-tools - Uses invalid array syntax. Fixed in <https://github.com/cuny-academic-commons/cac/commit/827481fd0e7689bebc9ca1a610a3efaa656ffba0> and deployed as a hotfix.

- layerslider - Uses invalid array syntax. Fixed in <https://github.com/cuny-academic-commons/cac/commit/913bddde9ccf6ef3bf7ed64cc0d0f4fc47013d3e> and deployed as a hotfix.

Themes:

- thematic - Uses ereg() and ereg\_replace(), which was removed in PHP 7.0. Fixed in <https://github.com/cuny-academic-commons/cac/commit/306bdcb6cee041a9a6d3ca56f66508ceea69b19f> and deployed as a hotfix.

#### #4 - 2018-10-19 03:32 PM - Raymond Hoh

I fixed a few other fatal errors unrelated to the PHP 7.2 upgrade that showed up in the logs:

<https://github.com/cuny-academic-commons/cac/compare/9dd369e5e1...ac4df58>

These haven't been deployed as hotfixes, but are staged for 1.13.12.

#### #5 - 2018-10-19 03:59 PM - Boone Gorges

Thanks, Ray.

<https://github.com/cuny-academic-commons/cac/commit/66fcd9aed135fc097cde087f0c4cc1f9ee1310c6> contains fixes for the Atahualpa theme.

These didn't get caught because they're not detected by PHP's linter. I guess you need static analysis tool for deprecated/removed functions. I'll look into setting this up.

#### #6 - 2018-10-22 10:41 AM - Boone Gorges

backtype-connect caused some fatals due to incorrect use of wpdb::prepare(). Fixed in

<https://github.com/cuny-academic-commons/cac/commit/1bd2dd37a88ae07d5748ae7c9ec2c24d02034595>

#### #7 - 2018-10-22 10:42 AM - Boone Gorges

- Related to Bug #10570: CUNY DHI landing page broken after menu bar added

#### #8 - 2018-10-23 10:48 AM - Boone Gorges

- Related to Bug #10563: clicking on links from site menu leads to 500 error added

#### #9 - 2018-10-23 10:48 AM - Boone Gorges

- Related to Bug #10562: Commons is down added

#### #10 - 2018-10-23 11:48 AM - Boone Gorges

- Target version changed from 1.13.12 to 1.13.13

Let's keep this open as they trickle in over the next week or two.

#### #11 - 2018-10-25 02:03 PM - Boone Gorges

- Related to Bug #10588: Missing social icons in Lucid Theme added

#### #12 - 2018-11-08 05:11 PM - Boone Gorges

Here's one from bdpres: <https://github.com/cuny-academic-commons/cac/commit/ffd40d2d9c0100f23e92456b9ba81be7ed2daa90>

#### #13 - 2018-11-08 05:13 PM - Boone Gorges

wordpress-thread-comment: <https://github.com/cuny-academic-commons/cac/commit/40af153b040305b0ce528bbb47dc9d6980ab0a3b>

#### #14 - 2018-11-09 02:24 PM - Boone Gorges

- Related to Bug #10689: Featured Image Error added

#### #15 - 2018-11-09 02:26 PM - Boone Gorges

In <https://github.com/cuny-academic-commons/cac/commit/77ddf400f6dc9e81a8b85faef48970f59de9e7fc> I added a composer setup so that you can use the PHPCompatibility-WP tool. Run `composer install`, then:

```
./vendor/bin/phpcs -p wp-content/plugins/gallerypress/ --standard=PHPCompatibilityWP --runtime-set testVersion 7.2-
```

Change the path to match what you're scanning. Running on the whole codebase takes a very long time, so I'll see what can be done about targeting it more, and integrating into CI.

#### #16 - 2018-11-09 02:27 PM - Boone Gorges

- Related to Bug #10560: PressForward Feed Reader hung up on TLC feed; won't retrieve other feed items added

#### #17 - 2018-11-13 11:02 AM - Boone Gorges

- Target version changed from 1.13.13 to 1.14.1

I've integrated into the CircleCI setup. <https://circleci.com/gh/cuny-academic-commons/cac/tree/1%2E13%2EEx> (I had to wrap the phpcs calls in a bash loop to avoid timeouts)

<https://github.com/cuny-academic-commons/cac/blob/84f00f98601af11b91196203f1a06bbe23c0db91/developer/phpcompat.sh>

I've continued the process of squashing 7.2 bugs:

- gallerypress <https://github.com/cuny-academic-commons/cac/commit/5dc96a522f95c3526d06e8aa402be624c8437538> (plugin is abandoned and is now unavailable for new activation <https://github.com/cuny-academic-commons/cac/commit/16fb145378e68035e37eea0e46f8a0414daad006>)
- pressforward <https://github.com/cuny-academic-commons/cac/commit/e084a794a764b141988f4243e1a456b14e18f3d4> (see #10560)
- wp-o-matic <https://github.com/cuny-academic-commons/cac/commit/72c891e9c3f117dacd500c0401c37a6ee61b10af>
- geo-mashup <https://github.com/cuny-academic-commons/cac/commit/84daa3fbd3befb393d6bed29024424a261c2c6ca>
- anthologize (excluded from scan because its incompatibilities are in vendor libraries loaded only when running old versions of PHP) <https://github.com/cuny-academic-commons/cac/commit/b00d6d55136d05f262d057f5db1ea185ec212122>

Let's continue to work through the list for the next release.

#### #18 - 2018-11-14 12:56 PM - Boone Gorges

- Related to Bug #9068: PHP 7.2 compatibility added

#### #19 - 2018-11-14 03:00 PM - Boone Gorges

A bunch more updates. Some are hotfixes (as in the case of abandoned plugins). Some are cases where I've determined that the linter can safely skip the file/folder, generally because the code is never loaded on the Commons.

- powerpress <https://github.com/cuny-academic-commons/cac/commit/fc97a38aacdfde9b3208d0025840ce0babc5b134>
- bp-reply-by-email <https://github.com/cuny-academic-commons/cac/commit/aa007440e7e6126bce601062b850dfeada2dff89>
- layerslider <https://github.com/cuny-academic-commons/cac/commit/ff9fb8d7324bf826364937ecf650a63ae0603bf9>
- wp-document-revisions <https://github.com/cuny-academic-commons/cac/commit/a182d653dfeea69f85c6a19ff36b213f29cfe19>
- widgetize-google-gadgets <https://github.com/cuny-academic-commons/cac/commit/515aba86a59af49a9487bc6d0f23f1fb1fcedf9e> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/4ae099bb5aa1c338dd14d08662673b755990456d>
- backtype-connect <https://github.com/cuny-academic-commons/cac/commit/2b84f0828c33645eeca0e0305412974ba0644180d>
- wp-ui <https://github.com/cuny-academic-commons/cac/commit/3a04dfe5b7fc6241a79073ab0ae549da6b22bbcb>
- newsletters-lite <https://github.com/cuny-academic-commons/cac/commit/557f03a42b1c18d5eeca0a34a7e228228918234c9>
- wordpress-mobile-edition <https://github.com/cuny-academic-commons/cac/commit/edf56f7be2e82c753feb1b2d318a7c8df78bdb21> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/1436add0ee50e310b3007c2e874fd6f8f4fed01b>
- wp-security-scan <https://github.com/cuny-academic-commons/cac/commit/0b9a36c642761953c31e5a8b93e4e042195ce74> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/f13f41bb074ccd60ab6f68eae9b00ed940033e43>
- event-organiser <https://github.com/cuny-academic-commons/cac/commit/1774591197bb072751c2479dca522898c79aefbc>
- query-monitor <https://github.com/cuny-academic-commons/cac/commit/ef22a75815e243bc82ab6fc4c625e9974cca6022> <https://github.com/cuny-academic-commons/cac/commit/71b365b18dde33bfd6dd1ec2b5ad251e88dbb456>
- wp-rss-multi-importer <https://github.com/cuny-academic-commons/cac/commit/489ba483c6894d6a7824ac6c50e45b513e4768fa>
- threewp-broadcast <https://github.com/cuny-academic-commons/cac/commit/e229c6a8f3a8638df03a5ab0b09418cac605691b>
- oauth2-provider <https://github.com/cuny-academic-commons/cac/commit/b6b7359f44a53e5ca1f4d3d9848273696516ca95>
- now-reading <https://github.com/cuny-academic-commons/cac/commit/94385a7630d2f6cbb84179bc12801bdabf39b9ed> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/0f2e6065623bbce524275b0db886e6ab5bd35766>
- buddypress <https://github.com/cuny-academic-commons/cac/commit/191879405b48be3b898c8e9d5ce41f93b940c751>
- tablepress <https://github.com/cuny-academic-commons/cac/commit/d70e7cf43af65d3513e57d34c4298ddc55b0a26b>
- bp-rbe-inbound-forum-attachments <https://github.com/cuny-academic-commons/cac/commit/833092fb5a4db6a6408da41ccb24f379033b5405>
- statpress-visitors <https://github.com/cuny-academic-commons/cac/commit/f63441481a5b9c5b325549f59bf7d75d4c366bc9> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/262d0c6447ab9cf5260f5d8168d13fec738bb0af>
- archiveorg-wp <https://github.com/cuny-academic-commons/cac/commit/6f4cf2f6655e133f888dd20ba2f3c89ea5b4ea1a>
- easy-visualization-tools <https://github.com/cuny-academic-commons/cac/commit/0261d7e811550acef7adafd94fb219a83926d66e>
- sign-up-sheets <https://github.com/cuny-academic-commons/cac/commit/964618bf2c14162b715154ac9d4697088e309a82>, <https://github.com/cuny-academic-commons/cac/commit/2c35ee0b049f733a7660d80b1a95d0264a934d17>
- tantan-flicker <https://github.com/cuny-academic-commons/cac/commit/49de7af44dd0f1048a2cbc83f355866511d559d6> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/e75230cb507b79c809fdb894efbce86616820b05>
- dd-formmailer <https://github.com/cuny-academic-commons/cac/commit/57adc92d6c6d00eed18cc03537d70baa8a65930>
- btcnew <https://github.com/cuny-academic-commons/cac/commit/fd26a7ef6a36ad19afd9865aab2eaf8fbb4fca4c>
- rss-importer <https://github.com/cuny-academic-commons/cac/commit/ca4229fe5bf4caf4f1793132999edda21a42131> Also added to activation blacklist <https://github.com/cuny-academic-commons/cac/commit/b18308ddbdc0f3a0600ed55def60ea6b840b2aab>
- password/digitalgrants (themes) <https://github.com/cuny-academic-commons/cac/commit/d1ccede7dd75dc7154a4cf33ae09bf36430d6b67>
- crisp (theme) <https://github.com/cuny-academic-commons/cac/commit/7e17764465355eda0f46f639e905e2751c7b507c>

In cases where I've added a plugin to the activation blacklist, I'll review it for removal as part of #10380

#### #20 - 2018-11-14 03:00 PM - Boone Gorges

- Related to Feature #10380: Remove blacklisted plugins added

#### #21 - 2018-11-14 03:19 PM - Matt Gold

Thank you, Boone!

#### #22 - 2018-11-14 06:58 PM - Boone Gorges

I've completed the process for themes:

- arras-theme <https://github.com/cuny-academic-commons/cac/commit/623b5f78d15aaf3c033ff0ea50c8a176e82f9136>
- primepress <https://github.com/cuny-academic-commons/cac/commit/ed536bf66ff6b832f603158f4eabaabe8cae6685>
- project-ar2 <https://github.com/cuny-academic-commons/cac/commit/6127d6454f8eb4ac4482c43ef8a87389ede63d68>
- antisnews <https://github.com/cuny-academic-commons/cac/commit/e3c7c7298e851aef094c85d20e6379a0fa21303a>
- clean <https://github.com/cuny-academic-commons/cac/commit/f17e42d2539c731e6acf13ea601a8bcf7bd4ffe2>
- MistyLook3 <https://github.com/cuny-academic-commons/cac/commit/dbb32cbf7dc6b1ac4dfd737dd010d39092ffbce5>
- MistyLook2 <https://github.com/cuny-academic-commons/cac/commit/ae9cad87c7844b8c8009cc6c14f068b71989dfc>
- classipress <https://github.com/cuny-academic-commons/cac/commit/c7224175078b04ca9684f4be1299720d838196d4>
- MistyLook <https://github.com/cuny-academic-commons/cac/commit/c9deb7e3f0d5ba8640d254f9927e6f590603319c>
- simplicity <https://github.com/cuny-academic-commons/cac/commit/2c093358b0fb63b97d7263da04b0ace56d65bcf1>
- basic <https://github.com/cuny-academic-commons/cac/commit/c95e4daa76f795636c51dc28e0fcfa613bf81428>
- aperture <https://github.com/cuny-academic-commons/cac/commit/c882a38bca2f21bb84433168fb307ceab66d24c8>
- themorningafter <https://github.com/cuny-academic-commons/cac/commit/7fddcd8f337e118784c60e920479102fe34e7976>
- bigeasy <https://github.com/cuny-academic-commons/cac/commit/bdfaf6129eb496d77b37af6545da7ac745d6fba2>
- nelo-for-tags <https://github.com/cuny-academic-commons/cac/commit/188d9fb8a002e05ab471f6a4ca9ea29264e9530a>
- spectrum <https://github.com/cuny-academic-commons/cac/commit/68d82d8da9a50d9eed45ab61677594f7d9730332>
- elemental <https://github.com/cuny-academic-commons/cac/commit/74a274335ff1bc56bc9b1b9b08bf7cc3f959b05>
- digitalgc <https://github.com/cuny-academic-commons/cac/commit/b8217c09aec1b4a93610291c49e4f73d4031f448>
- beachland <https://github.com/cuny-academic-commons/cac/commit/d5b8bf7c7f2297db73c6e62989b2a21bbede1ebf>
- object <https://github.com/cuny-academic-commons/cac/commit/568005b5c3c09470d7606e3e9b023b21793e5d17>
- backstage <https://github.com/cuny-academic-commons/cac/commit/9d8f0052b98e1d7740a84de5f61c59479f31d6a6>
- bluesky <https://github.com/cuny-academic-commons/cac/commit/218d0d3191f45b4314e2bbaaab03740cd655ed83>
- velvet <https://github.com/cuny-academic-commons/cac/commit/f18a69af65929b76a0021c0cea7f7379f4ea8ca0>
- atahualpa <https://github.com/cuny-academic-commons/cac/commit/d64c79ea39eebab7813b263cbbb505b636b9231>
- Blix <https://github.com/cuny-academic-commons/cac/commit/88e0fe99ed6022cd109e757550ccf3d0dd195619>
- abstract <https://github.com/cuny-academic-commons/cac/commit/5b9a4feb66f68c0f1b22684834b3be02a85b05c1>
- crisp <https://github.com/cuny-academic-commons/cac/commit/d571150b599e2b128eebb41719084661dee1bc24>
- papercut <https://github.com/cuny-academic-commons/cac/commit/9405caa5ce283babb1c6ee46cc8a8fb8f15a9a16>
- continuum <https://github.com/cuny-academic-commons/cac/commit/07df2109ac52249c8fbb1233cf1e70bff93dfa97>
- carrington-blog <https://github.com/cuny-academic-commons/cac/commit/679cccdedf23556f74799a1a54b1d127667dd1b>
- Simplr <https://github.com/cuny-academic-commons/cac/commit/c352d5d15d9478260830f26e57d45d0a8c30995c>
- freshnews <https://github.com/cuny-academic-commons/cac/commit/cf34ea9a95dc75decad8cd8c5956ad4039b64649>
- arthemia <https://github.com/cuny-academic-commons/cac/commit/6eda34b3d81e6e6f3696c30c94b7a1c6ee6007b5>
- canvas-3.0.6 <https://github.com/cuny-academic-commons/cac/commit/a656b9d845659dd1c45e29e5d10de8255b0091d7>
- iLoveMusic <https://github.com/cuny-academic-commons/cac/commit/3707007ce861028669970785c5440d8683aedb9a>
- coda <https://github.com/cuny-academic-commons/cac/commit/a12143b8e4d7a2412411a7db6699009ac7f05999>
- sensitive <https://github.com/cuny-academic-commons/cac/commit/6112c2682e34d836004e60410c406c3635edd368>

**#23 - 2018-11-14 07:00 PM - Boone Gorges**

A number of themes have been completely removed as part of this initiative in conjunction with #10034. See <https://redmine.gc.cuny.edu/issues/10034#note-9>, <https://redmine.gc.cuny.edu/issues/10034#note-11>

Our CI build is now passing, but there's likely a few more things that need to be caught that manifest only in production (like when strings are manipulated as arrays). I'll do a review tomorrow of the fatal error log to catch these instances.

**#24 - 2018-11-15 12:11 PM - Boone Gorges**

- Status changed from *In Progress* to *Resolved*

I have fixed many more instances. See <https://github.com/cuny-academic-commons/cac/search?q=10564&type=Commits>.

Looking over fatal errors from the last few days, I'm pretty sure I've got all (or nearly all) of those that are related to PHP incompatibility. I also tackled a fair number of warnings related to PHP compat.

There are a few more persistent warnings showing up in the logs. Some of them are associated with plugins that are actively maintained, so I don't want to hotfix them. (feedwordpress is one example.) Others come from Apache config ("hostname provided via sni...") and so are not things we can fix. Still others are due to what are, I'm sure, legit bugs, but the causes and fixes are not obvious. (For example, we're getting lots of "not countable" errors from `update_metadata()`, which implies that something's passing bad values into the function; I've set up a logger for this.)

Given the above, I'm going to close the ticket. Additional issues can reference this one.

**#25 - 2018-11-15 12:31 PM - Boone Gorges**

Quick follow-up related to the `update_metadata()` issue - I tracked it down to `pressforward`. More details <https://github.com/PressForward/pressforward/pull/1025>, hotfix in <https://github.com/cuny-academic-commons/cac/commit/60e8ed5c869c91e536acee8daae2f504ddc50675>

**#26 - 2018-11-15 04:47 PM - Matt Gold**

I feel like the Commons has just gotten a really good scrubbing with a hard-bristle brush. Thank you so much for cleaning out, pruning, and fixing so much of this junk!!!

**#27 - 2018-11-19 10:06 AM - Raymond Hoh**

Agreed. Thanks for putting in the work into our CircleCI integration, Boone!

And for all the subsequent manual fixes.

**#28 - 2020-05-05 12:12 PM - Boone Gorges**

- Related to Bug #12551: Preparing for PHP 7.4 added