

Programming Leftovers

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- [The 20 Best PHP Frameworks for Modern Developers in 2020](#) [2]

Programming languages encompass the tech world, and we, living in the 21st century, are seeing a historical change. As we all know, these languages are widely used for developing various apps, mobile phone system, etc. and thereby, the demand for these is increasing rapidly over time among developers. Among the different scripting dialects, the language which has secured practically 80% of the site market and tech world is PHP. PHP is utilized to fabricate sites and web applications. The use of PHP frameworks improves the intricate procedure of development by giving a stage where the engineers can work without much of a stretch from PHP applications in the briefest time conceivable.

- [A new hash algorithm for Git](#) [3]

The Git source-code management system is famously built on the SHA-1 hashing algorithm, which has become an increasingly weak foundation over the years. SHA-1 is now considered to be broken and, despite the fact that it does not yet seem to be so broken that it could be used to compromise Git repositories, users are increasingly worried about its security. The good news is that work on moving Git past SHA-1 has been underway for some time, and is slowly coming to fruition; there is a version of the code that can be looked at now.

- [Git commit reordering](#) [4]

While I was working for a presentation for kid's school at Magnetic field, Aurora, Lunar Phases and Rockets, I added 4 big videos to the presentation (as I was going to use them offline while presenting).

I know what git is not the place for big binary files, and even Github proposed to use the LFS backend for that, but as it was just temporary, I went ahead.

After that commit, I also wrote two more articles, the one on Lego Speed Champions and the one on Galleria.io and PhotoSwipe, so it became a problem to have big files in between, when my plan was to remove them in the end.

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[Qt World Summit 2019 talk videos are online](#) [5]

Were you there, but you couldn't attend that talk or two that you really wanted to see because the conference was so, so packed with awesome content?

Fear no more! We are glad to announce that the talks at the past Qt World Summit 2019 in Berlin (or QtWS19, for the friends) have been video recorded and are now available online! You can now catch up with the latest news, improvements and best practices around Qt and its ecosystem, all from the comfort of your sofa office chair.

We have gathered all the talks given by KDAB engineers on this summary page, where you can find also more information about the contents of each talk and download the slides.

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[OpenBLAS 0.3.8 Brings More AVX2/AVX512 Kernels, Other Optimizations](#) [6]

For those using OpenBLAS as your BLAS (Basic Linear Algebra Subprograms) implementation, OpenBLAS 0.3.8 was released this weekend and coming with it are more AVX2/AVX-512 kernels and other optimizations.

OpenBLAS continues striving to compete with Intel's MKL and other optimized BLAS implementations and with more AVX2 and AVX-512 should help with the performance on the latest Intel and AMD CPUs. There is now an AVX-512 DGEMM kernel, the AVX-512 SGEMM kernel was "significantly" improved, and new AVX-512 optimized kernels for CGEMM and ZGEMM. On the AVX2 front the kernels for STRMM, SGEMM, and CGEMM are said to have been significantly sped-up along with new kernels for CGEMM3M and ZGEMM3M.

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[Egad not more PAWs posts](#) 🙄 [7]

Well back on my PAWS run again. This one might be a rather short series as I am really just looking at one Action in the Kinesis API 'SubscribeToShard'. There is an open bug for this one up on github <https://github.com/pplu/aws-sdk-perl/issues/371> and one I think I can fix up fairly eaisy.

First things first, a little word on Kinesis. Well in short it touted as a very scalable real time data-stream thingy that sings dances and basically makes you line much better. Myself I do not have a use for it but it is part of the system and there is a bug so in I go.

I first had to set things up on the AWS server side with some permission etc the usualal srtuff I also had to run a number of command top build up my Kineses system to a point where I can actually use the 'SubscribeToShard'

- [Important Changes in YAML::PP v0.019 \[8\]](#)

During the SUSE Hackweek 19 I found time to fix some bugs and make important changes in YAML::PP.

Some of these changes might break code, but I expect this will be rare.

As I see more and more CPAN modules using YAML::PP, I decided to make these changes as soon as possible.

I will explain all changes and the reasons.

- [Introducing KBOS \[9\]](#)

Starting even before Moose, we (in the Perl 5 world) have a plethora of Modules extending the syntax of the language with Perl 6 and more in mind. The following article sums up not only my 2 and a half cents on the subject but also an attempt to implement it. It should be of interest to anybody thinking about programming in general.

As many here know, Kephra is the project closest to my heart and during the latest iteration, I decided to extend the language itself to get a more expressive, less repetitive code base. I want a fast, extendable type system with helpful error messages, real private attributes, real private methods, signatures with typed, positional, named and optional arguments, relaxed professional error handling, I want to know all instances of a class, reuse by delegation and incorporate any foreign objects. Last not least should the system support me in marshalling all attributes, so I can fully restore a program state after restart or switch into a remote session / other window.

The Kephra Base Object System (KBOS - read: ok boss) is designed to deliver on all that and I just want to discuss here my decisions. Some seem to be strange, like no inheritance (a feature), class types (not even Raku has them) or 4 different method scopes. But hej its my pile of garbage, stay away. I want this to become the optimal object system for Kephra's needs. It is not clear to me if I will release it or parts as a separate distribution in future.

- [Postponing some feature removals in Python 3.9](#) [10]

Python 2 was officially "retired" on the last day of 2019, so no bugs will be fixed or changes made in that version of the language, at least by the core developers?distributions and others will continue for some time to come. But there are lots of Python projects that still support Python 2.7 and may not be ready for an immediate clean break. Some changes that were made for the upcoming Python 3.9 release (which is currently scheduled for October) are causing headaches because support for long-deprecated 2.7-compatibility features is being dropped. That led to a discussion on the python-dev mailing list about postponing those changes to give a bit more time to projects that want to drop Python 2.7 support soon, but not immediately.

There will actually be one final release of Python 2, Python 2.7.18, in April. It is something of a celebratory release that will be made in conjunction with PyCon. There were some fixes that accumulated in the branch between the 2.7.17 release in October and the end of the year, so those fixes will be flushed and the branch retired. Other than the release itself, no other changes will be allowed for that branch in 2020.

- [SUSE Hack Week Spotlight: Guerrilla AI Team](#) [11]

SUSE Hack Week is a week-long sprint permitting developers time off from their day jobs to work on something entirely of their own design or wishes. This week we will be showcasing some of the amazing projects coming out of SUSE Hack Week and the brilliant minds behind them. Stay tuned all week long for more features.

[Development](#)

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