

Graphics Stack: Melissa Wen, Mike Blumenkrantz and Peter Hutterer Explain Their Work

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- [Melissa Wen: GSoC Final Report](#) [2]

I haven't said Hi for a while when starting a post. I think the rush and the whirlwind of things happening during the GSoC made me a little agitated. This year, my project was the only one accepted for X.Org Foundation, and I felt a great responsibility.

Well, this is the last week of the project, and I'm slowing down and breathing

- [Mike Blumenkrantz: Geometry Overview](#) [3]

I've mentioned GS on a few occasions in the past without going too deeply into the topic. The truth is that I'm probably not ever going to get that deep into the topic.

There's just not that much to talk about.

- [Peter Hutterer: User-specific XKB configuration - part 3](#) [4]

Let's talk about everyone's favourite [1] keyboard configuration system again: XKB. If you recall the goal is to make it simple for users to configure their own custom layouts. Now, as described earlier, XKB-the-implementation doesn't actually have a concept of a "layout" as such, it has "components" and something converts your layout desires into the combination of components. RMLVO (rules, model, layout, variant, options) is what you specify and gets

converted to KcCGST (keycodes, compat, geometry, symbols, types). This is a one-way conversion, the resulting keymaps no longer has references to the RMLVO arguments. Today's post is about that conversion, and we're only talking about libxkbcommon as XKB parser because anything else is no longer maintained.

- [Facebook Still Pursuing "NetGPU" - Working On AMD GPU Support In Addition To NVIDIA](#) [5]

It was the recent Facebook patches for implementing NetGPU that with one of the NVIDIA-focused patches led to the recent controversy around "GPL condoms" in the kernel and ultimately leading to new protections with Linux 5.9. That NetGPU code is still being worked on by Facebook with upstream hopes but now in addition to the NVIDIA driver support they are also working on AMD GPU support with the open-source driver.

[Graphics/Benchmarks](#)

Source URL: <http://www.tuxmachines.org/node/141586>

Links:

[1] <http://www.tuxmachines.org/taxonomy/term/148>

[2] <https://melissawen.github.io/blog/2020/08/31/gsoc-final-report>

[3] <http://www.supergoodcode.com/geometry-overview/>

[4] <https://who-t.blogspot.com/2020/08/user-specific-xkb-configuration-part-3.html>

[5] https://www.phoronix.com/scan.php?page=news_item&px=Facebook-NetGPU-LPC2020