

02-11-2021 Meeting Agenda and Notes

Round-table participants

All Add yourself to the list at the bottom of the document if you want to talk about what you're working on during the round-table session. (So I don't have to copy it every time; make your name bold, and add a colon (:) that is not bold after your name...)

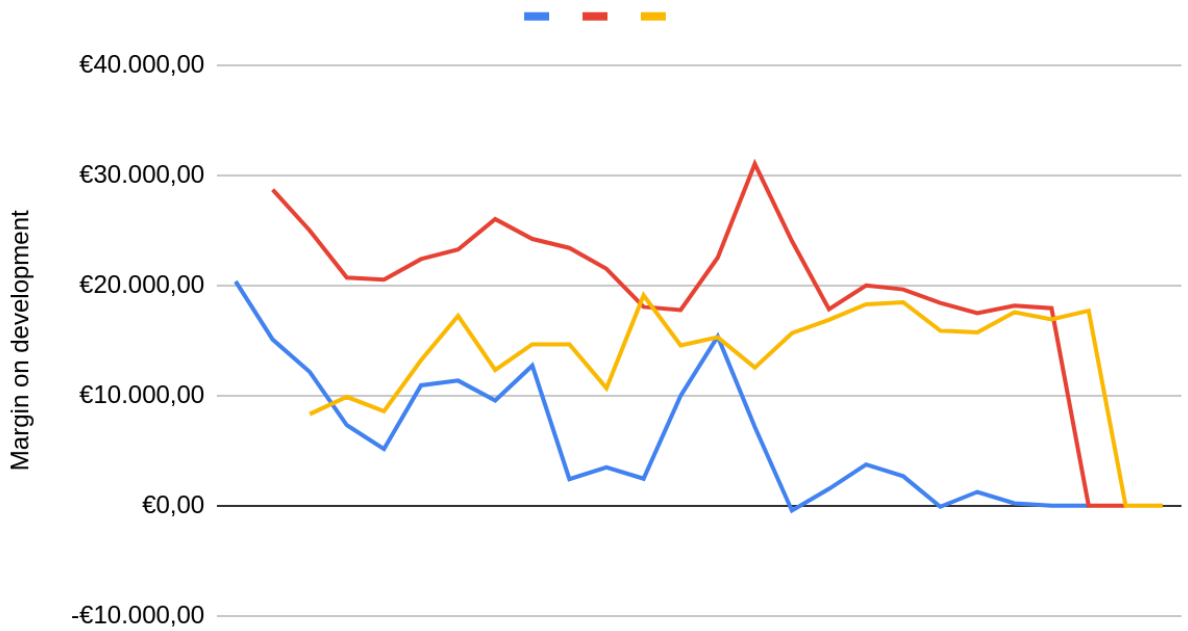
Absent

- Dmitry
- Ivan

Financial Worries

- This graph shows the margin on development in 2020 and 2021. That is, what's left before we pay the accountant, the bank, taxes, make reservations and Halla's income. Blue: Margin, Red: Income total from both KF and BRS, Yellow: sponsorships total.
- This is pretty bad, and I am now dipping into the reserves that were meant to pay the taxes over 2020. We need to cut costs or increase income.
- *How can we fix this?*
 - *get 5.0 out ASAP so we can hike our prices and go into the macos store?*
 - *Get more out of the development fund? Drive more attention to it?*
 - *Get more traffic out of Youtube: have a segment half-way each video that explains the dev fund?*
 - *Have an evening donation drive where artists live-stream*
 - *Ask KDE for more of the Calligra money*

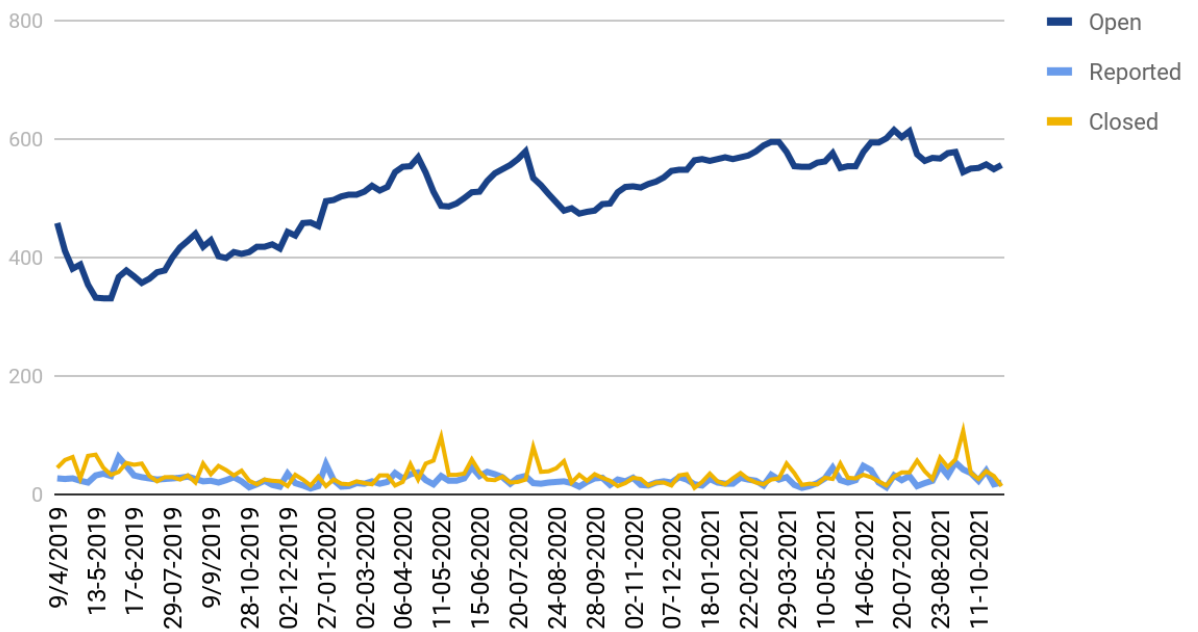
Margin on development



Statistics

556 +20 -14 (549 +17 -31)

Bugs



Commits in the past week (copied from github):

- Excluding merges, **8 authors** have pushed **21 commits** to master and **31 commits** to all branches. On master, **53 files** have changed and there have been **[672 additions and 436 deletions](#)**.
 - Excluding merges, **12 authors** have pushed **81 commits** to master and **159 commits** to all branches. On master, **136 files** have changed and there have been **[4,836 additions and 1,327 deletions](#)**.

Web

- Downloads (downloads.kde.org): **97,989** unique downloads last week.
- Web traffic: **217,311** visits, **483,373** unique page views last week.
- Donations: **4359** in the past month
- Fund.krita.org: **166** subscribers (166)
- Krita-artists.org: Total users - 13.0k (All time) Total Post - 106k (All time)
 - Active Users Last week - 517
 - Total Posts Last Week - 1.3k
- <https://subredditstats.com/r/krita>

Bugs and Merge Requests

Release blockers (12):

444613	eoinoneill1991@gmail.com	ASSI	KisAnimTimelineFramesView invalid memory access on closing Krita
444504	dimula73@gmail.com	REPO	Can't save a brush preset with brush tip from ABR file in Krita 5.0 without a safe assert
444309	tamtamy.tymona@gmail.com	REPO	Palette doesn't autosave on quit
443907	tamtamy.tymona@gmail.com	ASSI	Bundle created in beta2 can have different filenames in manifest and in actual bundle archive
443700	krita-bugs-null@kde.org	REPO	recorder broken: each session gets separate folder, and cannot output full video
443621	dimula73@gmail.com	REOP	Undoing layer styles on groups crashes krita

443347	krita-bugs-null@kde.org	CONF	[Transform tool] crash after a free transform on a layer group (with subgroups)
442972	krita-bugs-null@kde.org	CONF	Copy/Cut became very slow and bugged
441865	krita-bugs-null@kde.org	REPO	"Switch to Previous Preset" changes brush's opacity accidentally
441350	halla@valdyas.org	REOP	Brushes works wrong, after selecting another pattern and reselecting the original one, they works like the should
440962	halla@valdyas.org	ASSI	Gradients do not load from ASL file
440826	dimula73@gmail.com	ASSI	[Windows only] Krita 5 renders text differently from Krita 4.4.7

Regressions that are not marked as release blocker(11)

43875	krita-bugs-null@kde.org	CONF	[resources/brush tip] Cannot overwrite a brushtip in ~/.local/share/krita/brushes/ directory
441959	krita-bugs-null@kde.org	CONF	Soft Proofing on krita 5 (beta 1) still has glitches, but now triggered by transparencies
441945	halla@valdyas.org	ASSI	File Layers not working when opened with "folder icon"
441826	dimula73@gmail.com	ASSI	Crash when continuously add subdivisions
441569	krita-bugs-null@kde.org	CONF	Freehand Selection Tool produces severe artifacts when holding Ctrl to draw polygonal outline

441370	krita-bugs-null@kde.org	CONF	KDE Plasma cursor is not displayed over docker area right after painting on 5.0 beta1
441216	krita-bugs-null@kde.org	CONF	Painting over a reference image shows rectangular artefacts around the cursor if fractional HiDPI scaling is enabled.
438426	dimula73@gmail.com	ASSI	Issue with copy-paste image from Chromium based browser (Chrome, Edge) on Nightly Build
437429	amy@amyspark.me	REOP	Broken color display in the Palette docker with an active OCIO config
435056	krita-bugs-null@kde.org	REOP	Safe asserts both when undoing and redoing a selection mask after copying contents
430188	krita-bugs-null@kde.org	CONF	Extra "Updating..." stage after opening a large file and toggling layer visibility

Merge Requests

- 40 open, of which 29 draft, 21 needs changes.
 - Draft and needs changes are really static.
- https://invent.kde.org/graphics/krita/-/merge_requests/1121
 - We have a way forward
 - Wolthera wants to test against 5.0

Manual

-

Website

- Listing Krita communities on our site, like blender (Ivan)
 - We can make such a page, Ivan will be the contact person and will maintain the page.
 - [📌 T14559 New community page added to krita.program](#)

- Scott also wants to reorganize and update the design and content of krita.org a bit. For one, we want to integrate all the funding stuff better into the site instead of it. I think always having it be in the top banner is going to make it hard when we want to promote something else. I could make a task to start a discussion on some ideas and issues I think need to be addressed. Other people can give their feedback as well. [📌 T14731 Update design/content on krita.org](#)

Release

Release procedure for stable releases:

- We release every other month
- Four weeks before we release, we close the merge window: only regression fixes are allowed
- Four weeks before the release, we release a "beta".
- When we tag the final release, the merge window opens again

Releases:

5.0.0

- We need (to make a phab task with these items, and probably others):
 - A list with things that really block us from releasing -- and that list should not be sloppy so only the list author knows what the items mean.
 - Press kit with images
 - Let's try to boost <https://krita-artists.org/t/call-for-artwork-for-the-5-0-release-notes/28084>
 - Ramon is offering all the things.
 - So is deevad: <https://www.peppercarrot.com/en/artworks/artworks.html> and <https://www.davidrevoy.com/index.php?tag/artworks>
 - Updated store pages
 - Needs splash and icon in a bazillion crops and sizes
 - Updated web page
 - Twitter/Deviantart/Mastodon/Youtube/Peertube/Facebook(?)/Tumblr icon and splash updates. (Also ask for Matrix and Gitlab with KDE admin and mods).
 - Final version of the release notes: <https://krita.org/en/krita-5-0-release-notes/> (looks done to Halla?)
- Will contain
 - voronwe's color smudge patches (rgba tips, gradient texture and a new colors smudge engine), resource rewrite, mypaint brush engine, storyboard, mesh gradients.
 - HDR gradient rendering + dithering.
 - MRs from milestones.
 - Massive library update: https://invent.kde.org/graphics/krita/-/merge_requests/718

- LittleCMS Fast Float plugin: https://invent.kde.org/graphics/krita/-/merge_requests/717
- Animation Update
- Storyboard Docker
- 2pp assistant (Wysteriary's), hopefully also local assistants (tiar)
- MSVC builds: https://invent.kde.org/graphics/krita/-/merge_requests/776
- SIP v5: https://invent.kde.org/graphics/krita/-/merge_requests/869
- KSeExpr 4.0.3 (with Alvin Wong's bugfix round): https://invent.kde.org/graphics/krita/-/merge_requests/955
- webp plugin: https://invent.kde.org/graphics/krita/-/merge_requests/891
- Forked GMic 2.9.9: https://invent.kde.org/graphics/krita/-/merge_requests/965
- Updated metadata editor plugin (fixes Dublin Core, also implements runtime loadable schemas)
- Compatibility with VFX CY2021 onwards (ie OCIO v2)

5.1.0

- Will contain:
 - TIFF Photoshop support: https://invent.kde.org/graphics/krita/-/merge_requests/944
 - GMic for Android: https://invent.kde.org/graphics/krita/-/merge_requests/848
 - build support is **disabled**, it only takes an oneliner to enable
 - Reworked metadata system
 - gsocs
 - Milestones: <https://invent.kde.org/graphics/krita/-/milestones/3>

5.2.0

- Should contain:

Youtube

- 43,000 subs
- New video is almost done
- Release on wednesday, 20:00 CET

Roundtable

- **Halla:** Before going on holiday, I was working on restoring tags to the database. This works, but it's based on filenames, which is now unavoidable. The UI doesn't show the restored tags correctly, though.
I'll be back to showing the restored tags tomorrow. I just got mail from Apple they're going to try to help me with the app store. Things like figuring out whether we can publish a kde signed/notarized bundle/dmg under my dev account. And this morning I did MRs and merges and stuff like that.
- **Wolthera:** I headed the meeting last week and also attended the plasma-wayland-for-artists meeting. After that the NFT stuff was happening on twitter, so

I followed that, and after that I wanted to review MRs, but I ended up with a splitting headache for a few days.

- **Windragon:** This morning I made the MSIX package build script a bit more straightforward, and made https://invent.kde.org/sysadmin/binary-factory-tooling/-/merge_requests/232 to hopefully have it run on the binary factory, so Halla will not have to worry about making it manually. Also, last week I tried to hunt down a mysterious crash on exit, but in the end I think that was caused by some unrelated code corrupting memory, so I tried to find a replacement of Valgrind memcheck for Windows? I only tried Application Verifier but I found at least two issues.
- **Sharaf:** Sadly, I was sick for the first couple of days. First I started with fixing bug 443330 (Undo/redoing caused safe asserts), which led me on a journey to understand undo mechanism and KisMementoManager. Then, while I was at it I discovered another issue with document saves if undo history was cleared, which I fixed in (MR !1129). Then, I did some performance testing for Bug 442972 (cut/copy being slow). Finally, I fixed a couple of bugs, one with exporting exiv and another one with a brush editor not responding to events on Android (which I found on KA). there was also a build issue because I compile with clang (linux), that's all!
- **Amyspark:** Last week was again a trip here, I got wind on very short notice that Eurographics 2022 had sent a revised call for STARs (state of the art reports) and since my thesis has three of them... I submitted the juiciest one (hair shading, which I implemented back for blender in GSOC) and am now waiting for the review. The other two, I'll write them during the summer.
Back to Krita-land, I only did sparing review of sh_zam and tiar's MRs, and after the submission was done on Tuesday, I got into dmitry's SIMD test bench. The objective of that test bench is to see if we can find a replacement for Vc, that we can use to enable vectorization in Arm. Since Arm is now a thing for Apple desktops. I have a Cryptpad document listing a good dozen (probably less) replacements, and the requirements of our codebase. Unfortunately, the majority are in various state of abandonment or lack of usefulness (mainly because of the lack of dynamic dispatch).
<https://github.com/xtensor-stack/xsimd> it's a very sensibly designed library, even though it's in flux atm the codebase is amazingly tidy.
I'd like to note this down to make a test branch for 5.1 or 5.2, so we can test and share. This is performance critical enough to warrant *not* messing with 5.0.
This week I plan to get back to bug squashing, i'm not comfortable with so many regressions around... and help tiar with the resources system, ofc.
- **Tiar:** I mostly fixed saving to bundles - https://invent.kde.org/graphics/krita/-/merge_requests/1125 - and some misc stuff like checking bug reports.

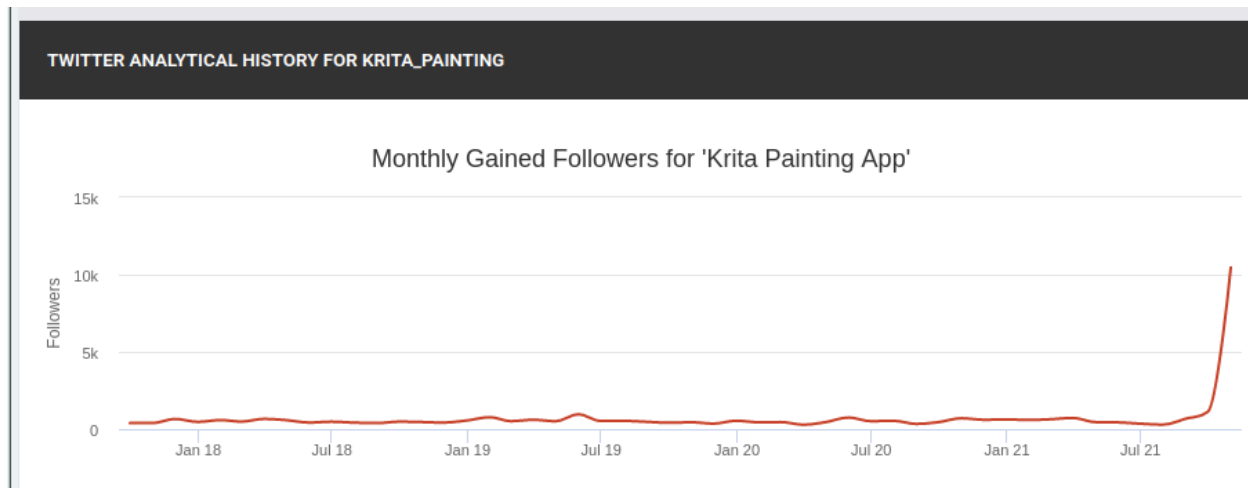
AOB

- [Meeting of digital painting configuration on plasma wayland on 2PM UTC on october 27th, in plasma matrix channel](#)
 - kwinn has support for colord under wayland, and they've said they want to support the upstream color protocol too, so they're going to rework the KCM to allow all that.

- will kwin apply the profile on the app? -- Not sure, as far as I know they said that it will be most efficient to let Kwin do the color management, but I have no idea how that would look like in our pipeline. They've said they'd help once we start porting though.
- According to the plasma devs, tablets should work automatically on wayland with Qt applications built with Qt 5.15.
- Other than that, they're going to try and get a wayland KCM for tablets that uses as much as they can from the wacom-kcm, but then plugged into libinput.
- **Amyspark:** I attended the OCIO TSC meeting yesterday by phone, spoke to Patrick Hodoul from Autodesk and Larry Gritz from Sony Pictures Imageworks. They will be reviewing the implementations of locale-agnostic floating point number parsing, as OpenColorIO and OpenImageIO are both being hit by those bugs. We agreed to get back next week and see where this leads.

FYI

- **BACKPORT (or forward port) your own commits! Use either invent's cherry-pick functionality, or use git worktree to have both trees checked out and built. Cherry-pick with -x!**
 - Tiar has a script helping finding out which commits has not been cherry-picked, it needs some setup (since I haven't made it "other-people-friendly" yet) but might be helpful if you're like me and has trouble finding or remembering which ones has been cherry-picked already
- Post Krita 5 projects: [Post Krita 5 Projects](#)



- This is what happened to our twitter follower count when Adobe added an NFT button to Photoshop. ...
- **Halla:** got mail from Michael Meeks introducing me to someone who needs a free software painting app with commercial support. I replied today.

Next week

- Halla
- Backup: Wolthera

