

Milestone

No milestone

Development

5 participants

No branches or pull requests

find . -type f -printf '%s %p\n' | grep -v '/\ [

./universe/autoware.universe/planning/planning_test_utils

./vehicle/sample_vehicle_launch/sample_vehicle_descript

./universe/autoware.universe/perception/detected_object_

./universe/autoware.universe/planning/behavior_path_plar

./universe/autoware.universe/planning/behavior_path_plar

./universe/autoware.universe/planning/behavior_path_plar

./universe/autoware.universe/planning/behavior_path_plar

./universe/autoware.universe/perception/probabilistic_occ

./universe/autoware.universe/planning/behavior_path_plar

./universe/external/muSSP/input_MOT_seq07_followme.t>

./universe/autoware.universe/planning/behavior_velocity_r

./universe/autoware.universe/planning/behavior_path_plar ./universe/autoware.universe/perception/traffic_light_visu ./universe/autoware.universe/planning/planning_debug_tc ./universe/autoware.universe/perception/occupancy_grid_ ./universe/autoware.universe/planning/behavior_path_plar ./universe/autoware.universe/planning/behavior_path_plar ./universe/autoware.universe/planning/behavior_path_plar ./universe/autoware.universe/planning/behavior_path_plar ./universe/autoware.universe/perception/traffic_light_map ./universe/autoware.universe/planning/behavior_path_plar ./universe/autoware.universe/planning/behavior_path_plar ./universe/external/ndt_omp/data/251371071.pcd ./universe/external/ndt_omp/data/251370668.pcd ./universe/external/muSSP/muSSP/cmake-build-debug/mu ./universe/autoware.universe/planning/behavior_velocity_r ./universe/autoware.universe/planning/behavior_velocity_r ./universe/autoware.universe/system/bluetooth_monitor/d ./universe/external/muSSP/img/mcf_efficiency.png ./universe/autoware.universe/planning/behavior_path_plan

Purpose

We can replace the png files by their svg counterparts to reduce the overall file sizes. And help them make more git friendly.

Also the large svg files contain binary images, they should also be replaced by vector image counterparts.

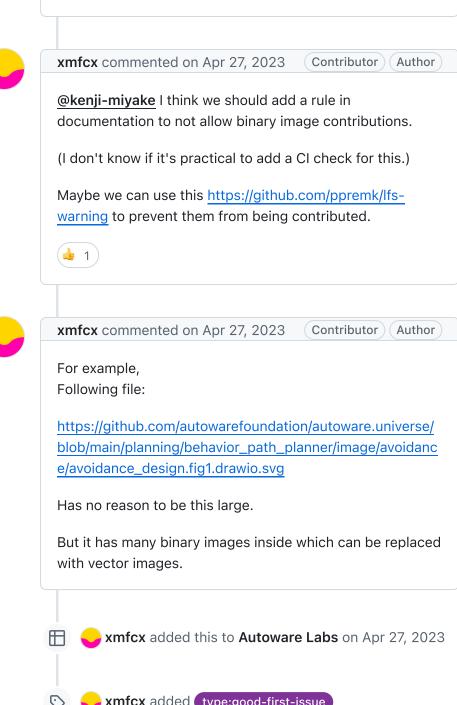
Otherwise it will keep inflating the git history unnecessarily.

Possible approaches

Trace them with tools like Adobe Illustrator and replace them with the light vector images.

Definition of done

At least these top 20 items are reduced to vector images. (Not all items in the list are images but this is a start)







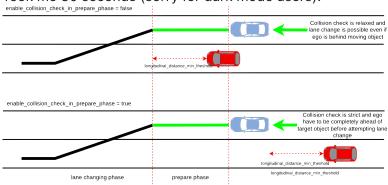
VRichardJP commented on Apr 27, 2023 • edited ▼

(Contributor)

I don't know a thing about graphic software, but from a quick google it seems Inkscape has quick autovectorization tool: https://github.com/autowarefoundation/autoware.universe/blob/main/planning/behavior_path_planner/image/lane_change/lane_change-enable_collision_check_at_prepare_phase.png

- Path > Trace Bitmap...
- Tab: Multicolor
- Detection Mode: Color
- Remove Background

Took me 30 seconds (sorry for dark mode users):



Size before: 7MB Size after: 650KB

I don't know if it is a very clean SVG, in particular text is not stored as text, but it could be a quick and effective way to reduce image size. The better way would be to have access to the original files.





kenji-miyake commented on Apr 28, 2023

Contributor

https://github.com/autowarefoundation/autoware.universe/blob/main/planning/behavior_path_planner/image/avoidance/avoidance_design.fig1.drawio.svg
Has no reason to be this large.

I'm not sure, but it might have some meta data for reediting in draw.io.





kenji-miyake commented on Apr 28, 2023

Contributor

<u>@kenji-miyake</u> I think we should add a rule in documentation to not allow binary image contributions.

<u>@xmfcx</u> I remember you said we can consider utilizing git-lfs for images.

Did you find any problem with git-lfs and change your mind?

(I don't know if it's practical to add a CI check for this.)

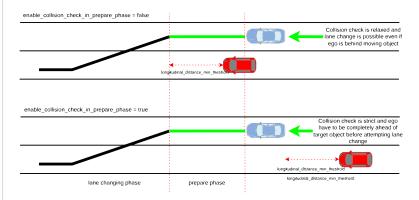
If we really disallow image files, I think checking on CI is good.





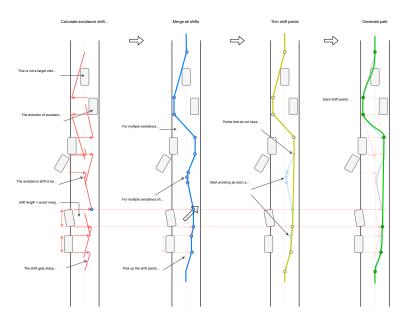
<u>@VRichardJP</u> thanks, I didn't know Inkscape could do it too.

I could get following in Illustrator following https://helpx.adobe.com/illustrator/using/image-trace.html



I'm not sure, but it might have some meta data for reediting in draw.io

<u>@kenji-miyake</u> it's likely. Because when I opened the file with Illustrator and just saved it back without doing anything, it got reduced to 25KB.



We can still utilize git-Ifs, but just for light vector files, it might not be necessary.



kenji-miyake commented on May 1, 2023

Contributor

@xmfcx By the way, how critical is this issue? Do you have any specific problems caused by the repository size?



xmfcx commented on May 1, 2023

Contributor (Author)

By the way, how critical is this issue? Do you have any specific problems caused by the repository size?

I'd say it has normal priority. Keeping repo small in general is a good practice. And earlier we do this, better it is. Because these binary files keep making the .git folder larger and larger with no return.

I've realized this while investigating why the autoware folder was so large. Then realized these images and it'd be a good thing to do if anyone would like to spare some time.

It'd be the best if people who contributed these files put here the lighter versions instead, since we might lose some quality otherwise.







feat: invalid lanelet documentation autowarefoundation/autowaredocumentation#337 4 tasks



xmfcx commented on Jun 8, 2023

Contributor Author

@xmfcx | remember you said we can consider utilizing git-lfs for images.

Did you find any problem with git-Ifs and change your mind?

We had a discussion with the Autoware Planning & Control team in the WG meeting.

@kenji-miyake

The common agreement was that the draw.io metadata information (the binary blob) in the files are important for the team. We should keep them.

And to allow this, I had 2 solutions:

- Add git-lfs support for the image and binary files. (my preference)
- Replace the _svg files with smaller versions. But collect and host the original .drawio.svg files in some google drive, have links to them in the documentation. (too complicated and hard to maintain)

@esteve do you think adding git-lfs tracking to the generic image files in the middle of repository timeline might have any unknown side effects?

I would like to go with this option but we also need to update the documentation, maybe ansible scripts, maybe for certain CI actions (like mk-docs generation) to have this support.





esteve commented on Jun 8, 2023

Contributor

@esteve do you think adding git-lfs tracking to the generic image files in the middle of repository timeline might have any unknown side effects?

I don't know of any side effects, but I agree with using git-lfs for storing the .svg files.





mitsudome-r mentioned this issue on Jun 20, 2023

docs(design/autoware-interfaces): add sensing interface

№ Merged

autowarefoundation/autowaredocumentation#328

4 tasks



xmfcx mentioned this issue on Oct 4, 2023

build(tvm_utility): remove download logic from CMake and update documentation



