Previous Meeting with Guy Stoppi

https://docs.google.com/document/d/1D-TqH4ew1iXJbTOhiroUTt3O63mRFReWSG0jQg7eVyo/edit#heading=h.2qw6exqb2z47

Here Map Processing Doc:

https://docs.google.com/document/d/1ZRX6rrPqj0HYIHL_8tgM4PaE-4HwsJHRjMLrfjJktLM/edit?fbclid=IwAR3cbTjQCSVd1npDKDcQiZEUZQN9QwH67bl-r_fhme-uusD4oKsuhbTJD_c

Phab documentation:

https://phabricator.watonomous.ca/w/software/processing/

- What was the state of the lane_publisher node when you left it.
    - Why does it only seem to work with an odom of 0,0?
        - Not sure
    - What kind of map is the input (what format does the text file need to be in)
- Does filtering lane lines work
    - Guy is un sure of what was happenning. Data was being output by the lane publisher, but at random times and wasnt sure why

<mark>Guy:</mark>
- Any files under **localization/hdmap_processing/scripts** in <mark>master branch</mark> were worked on by Guy
    - **Gps_to_map.py:** way to create our own laneline part of the here map
    - **Draw.py:** any txt with the same format -> can visualize lanelines, centerlines, etc.

- They were parsing the center lines first but then moved to
- Lane_parse.py parses lane lines
    - After converting the protobuf to a textfile/json using the proto command given,
    - then , run lane_parse.py to to parse the output textfile into another file
    - The new output has one   a list of coordinates for a lane - 1 line in the text file per lane. This is the input to lane_publisher
    -
    - Lane parser might round some numbers - might need to check this. Guy says its probably ok
- And hldm_parse.py parses center lines (lines in the middle of the entire road)
    - Prints all coordinates of lane lines relative to the center of the tile
    - Each lane line is one line in the text file
- Draw.py draws the parsed text file
- Clearpath track was given by U of T. The parser for this format is completely different than the here map parser

- Lane_publisher needs to be heavily debugged. Guy did not have a chance to do this. He knows there were some issues regarding this node and it did not get to being debugged.
    - This publisher is in fact known to **not** be completed and needs to be worked on
- Parsing the lanes from HERE map was completed

Road/center line model
- Centerline is used as reference point for Roadline

- New files added under the **localization/hdmap_processing/scripts** dir under the s19 branch were worked on by Shigeki & co.

- MCity Shigeki Map
    - Green, Red, Yellow -> **LaneLines**
    - Gray -> Topology (**Roadlines**)
    - Actually 2 tiles not 1
    -
- Test_all.py (uses Util.py)
    - Combines the 2 topology geometry tiles
    - Upper part of program processes topology geometry (lines 0 - 90)
    - Lower part processes lane lines
    -
- Shigeki didn't use hdlm_parse

- Draw_all.py
    - Shigeki made, but not necessary
- **All Draw_*.py don't need, only need test_all.py & util.py**
    - Original purpose of visualizing these maps using these files was to display on the screen for touch screen navigation
- On the 2nd day of the competition they did not have the intersection geometry?

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