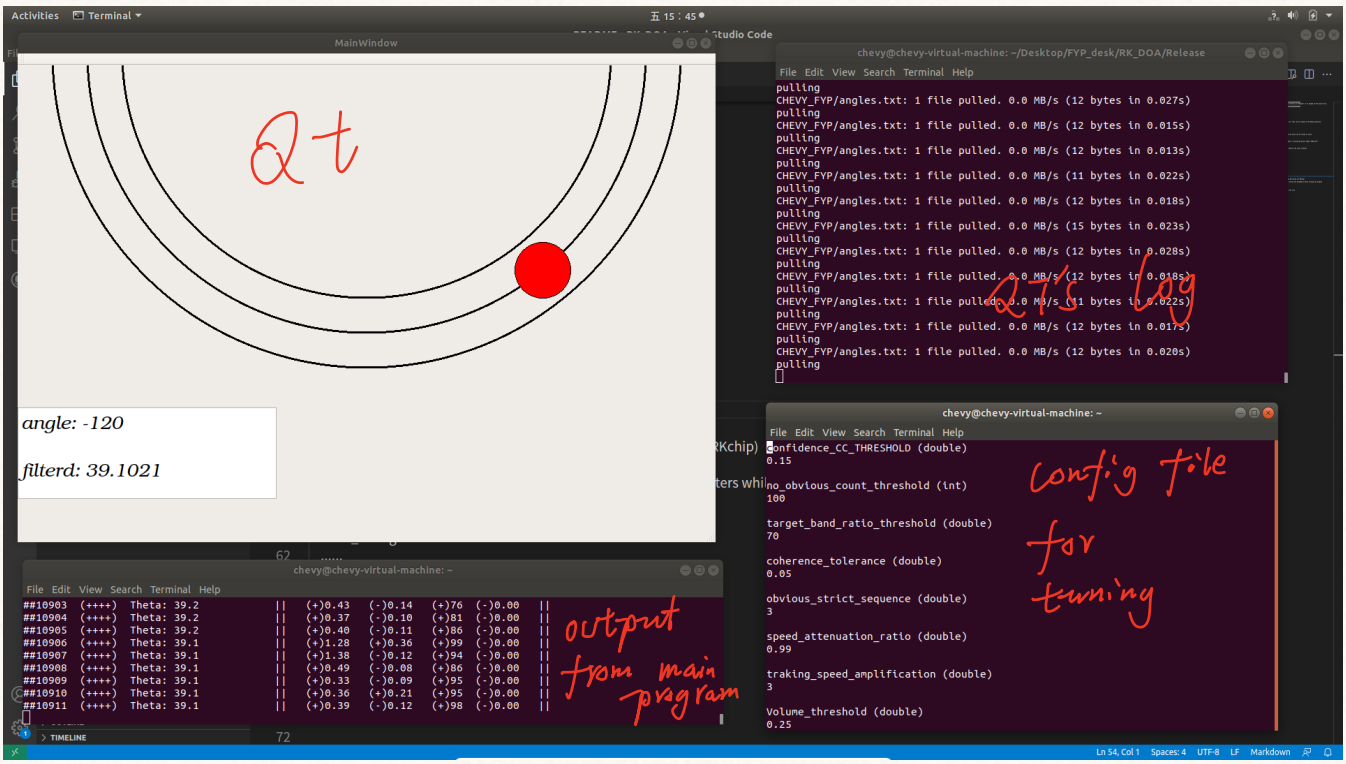
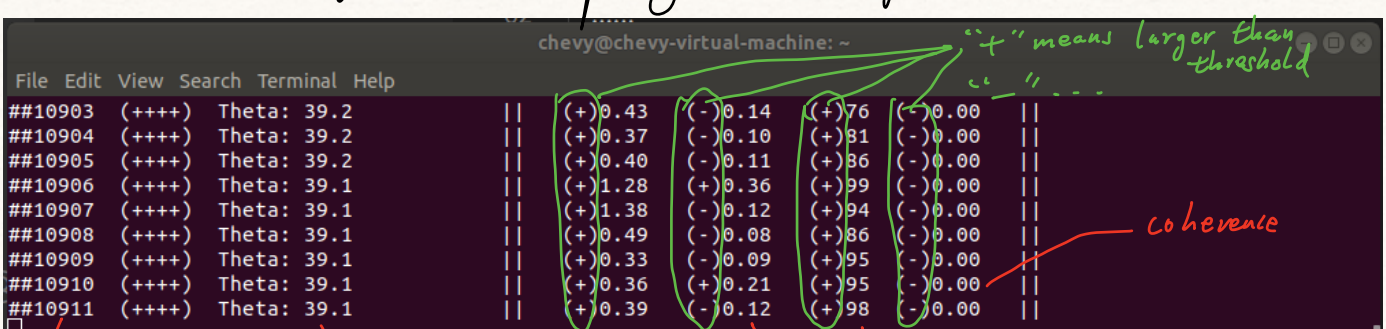
All terminals and outputs



Main program output



Chentan WENG

How to tune parameters ?

```
confidence_CC_THRESHOLD (double)
0.15

no_obvious_count_threshold (int)
100

target_band_ratio_threshold (double)
70

coherence_tolerance (double)
0.05

obvious_strict_sequence (double)
3

speed_attenuation_ratio (double)
0.99

traking_speed_amplification (double)
3

Volume_threshold (double)
0.25

Passband_Low (double)
100

Passband_High (double)
50000

reference_angle (double)
20

train_path (string)
../sound_data/48000Hz_report/small_room/20s_60-60_small_room.wav
```

The threshod for calculated PHAT-SRP

If 100 continous measurment does not satisfy the 4 threshold, then give up the current target

only target-band-energy ratio > 70 can be used

Smaller coherence-tolerance means the sudden change of the measurement have high possibility to be regarded as good measurment (set it to negative if you does not use it)

continously meeting the threshold requirments for 3 times can be regarded as a valid new target for tracking

If the measurment does not satisfy the threshod, make the speed = 0.99 x Speed for Kalman.

Multiply the KF estimated speed with 3

The threshod for the short-time volume of a frame of data

define target band (HZ)

Ignore!!!

(only for offline testing)