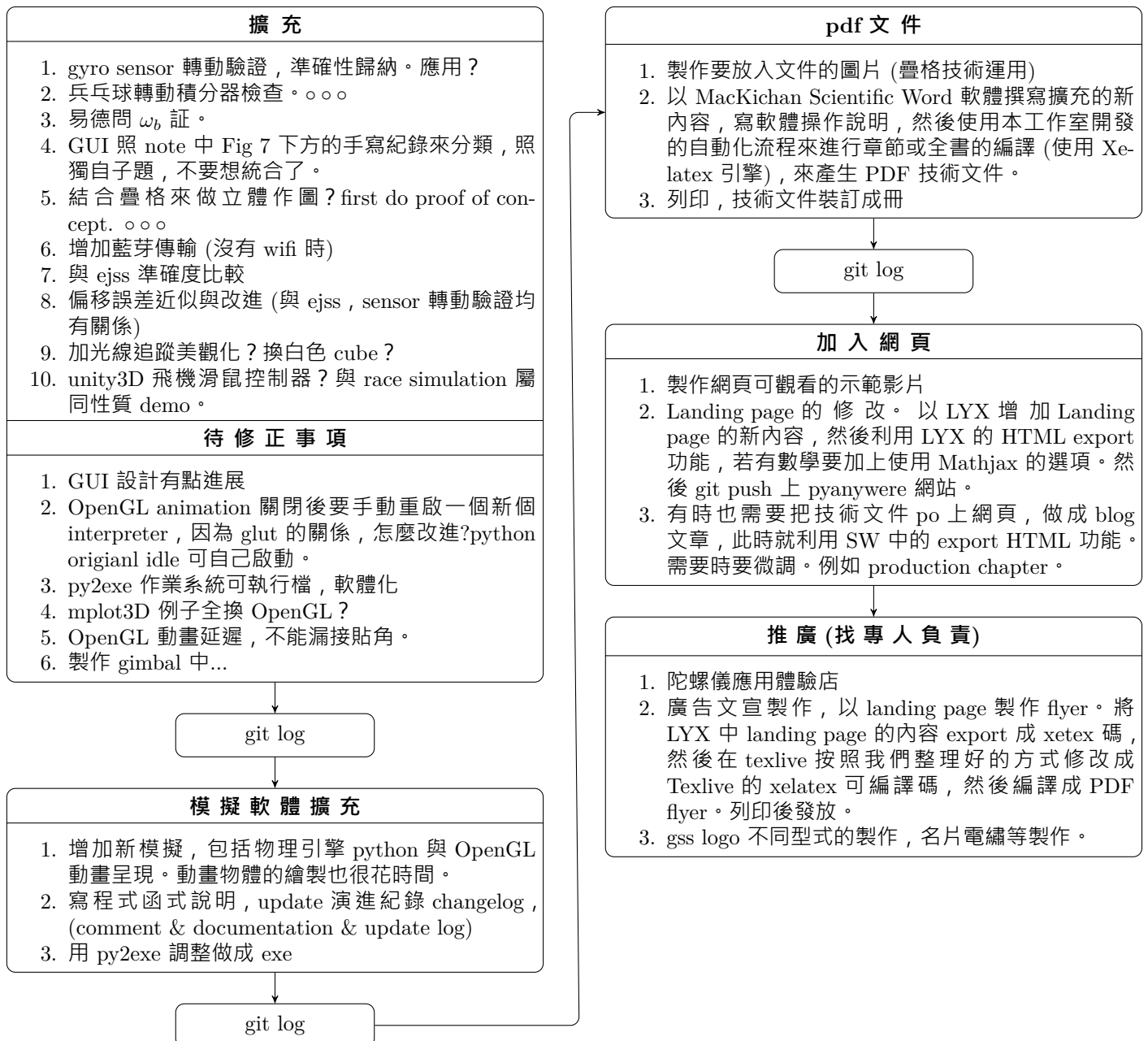
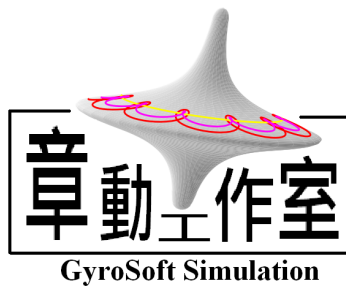




作業流程





GS 軟體資料夾一覽

- 1_Demo_Examples
 - ReadMe.txt
 - User_interface.py
 - __init__.py
 - __init__.pyc
- 1_traditional_gyro
 - 1_classical_motions
 - OpenGL_animation
 - circle_GL.py
 - circle_GL_with_B_method.py
 - curly_ring_GL.py
 - cusp_GL.py
 - wave_like_GL.py
 - python_animation
 - circle.py
 - curly_ring.py
 - cusp.py
 - wave_like.py
 - 2_discussion_examples
 - F_contact_force.py
 - Gyroscope_SpaceBodyCone.py
 - Hercules_explain.py
 - L_not_circle.py
 - 3_varying_integration_methods
 - AngularVelocityTrail_in_body_frame_compare_ABmethods.py
- 2_Inertial_Gyro
 - 1_simple_gyro_design
 - centripetal_mass_spring.py
 - 2_MEMS_gyro_applications
 - MEMSInVR_demo.py
 - MEMS_rotation_control_in_python.py
 - 3_test_cases
 - Gyro_Ring_Test.py
 - NoisyTest.py
 - StillTest.py
- 3_Rigidbody_Integrator
 - gyro_ring_test_1.py
 - pingpong.py
 - pingpong_2.py
- GUIs
 - GUI_test.py
 - GUI_TryMe_v3.py
 - GUI_TryMe_v4.py
 - GUI_TryMe_v5.py

last 10 git commits

2017-11-29 Debugging omega times dt, previous_angle issue. Still no clue.

2017-10-28 Rename two mems gyro noise tests.

2017-10-23 finally created .gitignore succesfully on windows XP using "touch .gitignore" command in git bash. Took me an hour to figure it out. Nothing mentioned in git manual. At first I tried saving from notepad but even if it can be saved, it wasn't applied to the repo. Tracking .gitignore file.

2017-10-19 circle and wave_like py animation done. All four OpenGL classic motions done. Also added circle_GL_with_B_method.py but need to add to GL module B and C drawing capacity.

2017-10-19 Angular L animation seems broken. Need to fix.

2017-10-18 1. Proof of concept of rotation control of gyro sensor + a DIY race seat.
 A. need to document the ASUS xyz direction and 3D world xyz direction.
 B. match the driving direction of wheel to that of 3D world y direction.

2. Adding DrawOption['draw_pingpong_ball']
 A. when this option is set true, a wire frame ball instead of cube will be drawn. Also the openGL window will enlarge a bit to better observe the change in angular momentum.
 A. pingpong2.py corrected.
 B. still need to fix pingpong.py

3. Changed a few files to use the new Toolbox path logic.

4. cusp and curly_ring py animation finished up.
 A. Still need to better document the parameter settings for four classic motions.

2017-10-15 rename Jzwiener_abstraction to MEMS_rotation_control_in_python move other files around.

2017-10-15 still organizing

2017-10-15 organizing files in OpenGL_demos elsewhere.

2017-10-15 rename 3D_scenery.py

2017-10-15 organizing four classics python animation.

2017-10-15 rename to cusp_GL.py.

2017-10-15 organizing cubegyro_opengl_animation_1.py location.

思考

1. GUI 使用者自訂參數程式有進展但未完成，GUI module 加說明
 - (a) 想把 GUI 弄成方便驗證 self-energized finger spinner，但這樣的話需要能夠以 GUI 方式給力矩，不太可能歐... 這裡連問題都不知道是甚麼，不需要做 GUI，等到知道問題後再為了方便性做 GUI 才較好。
 - (b) GUI 的目的是將目前所有功能統整呈現，方便操作方便探索，所以應是針對現有已完成的例子。
 - (c) 所以應該是先將 gyro demo 做成可輕易更改參數，然後可方便觀看 AB 法的差異。
 - (d) 然後 C 法應該是姿態估測的，或許應該跟 gyro demo 做切割？所以 ABC 三法應該要切割一下？
 - (e) 2017 十月中，有了一點進展，將 demo folder 檔案做分類，此分類就是設計軟體使用的基礎，接下來可試將 user interface 照相同分類切割類似區域，每個區域也可獨立在該分類資料夾中運行。
2. 階段任務算告一段落。事實上 py 檔都可獨立跑，GUI 實在有點太難，不做了，放下。
3. 將目前東西完整記錄，整理，建檔就已經很花時間，做不完了。