## ROS developeris quide

# 1. Source control

=> Add to source control only the minimal sol of manually written Source & build files that are necessary to build your package.

Dont add machine generalied

- Objects (·O)

| libraries (.so)

La auto-generated Configure script.

> Don't add large binary files:

Seven and download them in your build file.

=> Commit your code early koften.

> Tony to Keep Commits focused on a particular change instead of lumping multiple changes together.

The an informative message with earl

=> Don't brock the bild.

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- => For peckage hosted on Github this is Commonly the issue tracker of the onepository.
- => The maintainer will assign milistone to each propoted issue.
- => To saise an issue:
  - 11) Be as des caiptive as possible.
    - > Andude instructions for oneproducing the bug.

## 3. Code layout

- => Packages can be collected in a Single one pository
- From GitHub it is orecommended to Greate a README. and at the most of your orapository to explain to war, what to find in the orepository.
- Parkage documentation on the ROS wiki for the Contained Parkage.

### 4. Pakaging

enelies on parkage and build System

Pukagi eml file, localed in the package's top duritory.

At a minimum, the package exmi

-> desciption -> andhos -> license

#### 5. GUI toolkits

GUI devilupment.

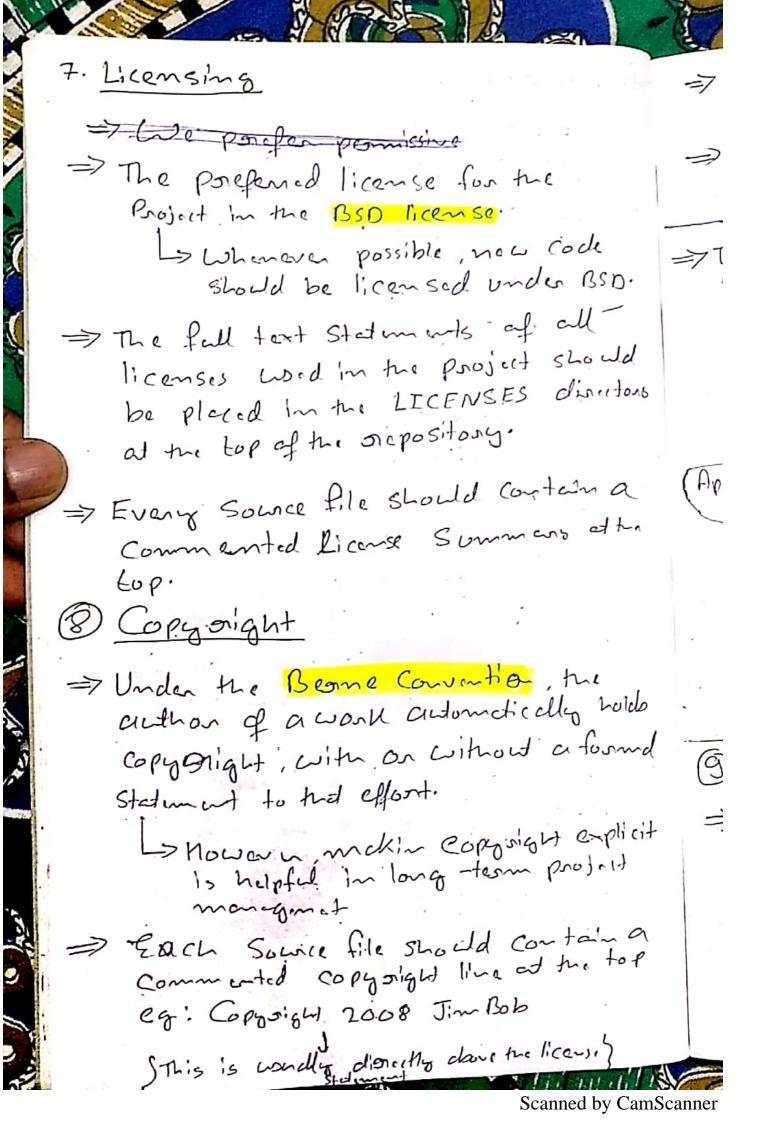
St-board GUI franciscus

#### 6. Building

=> The basic build tool is CMake.

must have a CMcke List tet file in the parkage's top distractory.

La Parkages that don't have build files. Stops don't need any build files.



- => If you work for yourself, then you
- =) If you work for someone else, then your employer owns the copyosight.
- The most popular open source licensus has a imported aspect in common,

has approved them.

fam.d in 1958

Applying a License to you open Source project

> > You mand to add a LICENSE. and LIENSE. Ext On LICENSE. and In the sout disretons of you one positionly.

3 Debuggins

=> Garady word delagging tout)

- · GDB
  - Opmofile
    - · Valgorind

10) Testing

=> We use two level of testing

Standard unit-test francionks.

>9n C++, we use gtest >9n python, we use unittest.

o Massage > At the massage level, we use sold short to set up a system of ROS mades, som a test mode, then been down the system.

11) Documentation

=> All Code should be documented according to QA Process. Ancluding

API must be documented.

APIS (topic, Services, Parametus)
must be documented.

12) Releasing

The Standard process for onclearing code to the Ros community is described on the bloom documentation.

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## 13) Standardization

gblidelines for the usi:

Dusi posoud for pointing musage Dusi the Ros Clock for time bosed

## 14) Dopogecation

As soon as their are wors of your code, you have a suspensibility not to pull the suy out from under them with sudden borecking changes.

-> Instead use the process of deposecution, which means making a feeder on component as being no longer supported; with a schedule for its semond.

> Doporocation can happen d'multiple levils:

1) API fectures
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