GIT two words introduction

About

 Git /gɪt/ is a distributed revision control and source code management (SCM) system with an emphasis on speed



Why GIT

- Really popular SCM system
- Many ROS packages needs to be downloaded (CLONED) from GIT repositories



Why SCM - 1

- Sources sharing across networks
- User signature on each revision
- More advanced features (local/remote repository, branching...)



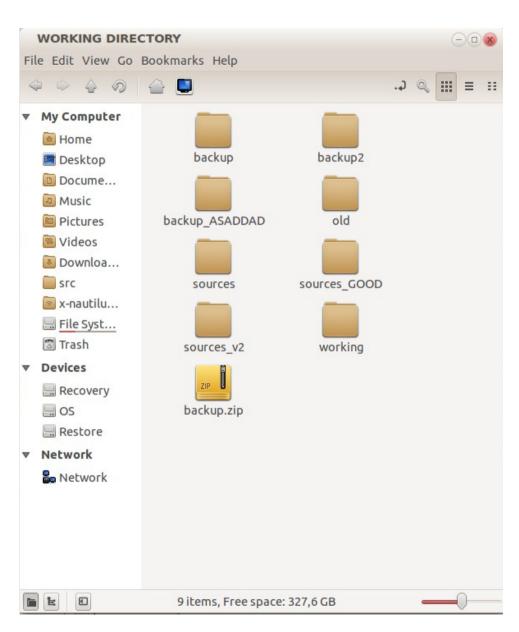
Why SCM - 2

- Each revision is stored on the repository
- Rollback to a working version (after a disaster update) it's blazing fast



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Installing GIT

• sudo apt-get install git-core

Obtaining the code

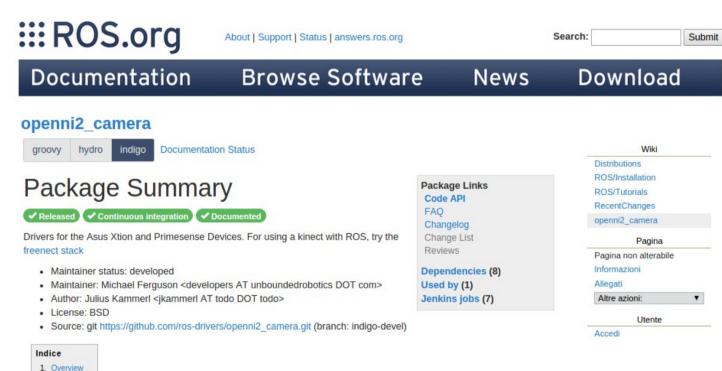
FIRMWARE

```
git clone https://github.com/mauriliodc/capybara.git
```

ROS NODE

```
git clone https://github.com/mauriliodc/capybara_node.git
```

Example from a ROS package



Overview

2. Usage

This package contains launch files for using OpenNI-compliant devices in ROS. It supports the Asus Xtion, Xtion Pro, and multiple version of the Primesense 1.08 and 1.09 cameras. It does NOT support any versions of the Kinect. freenect_camera or openni_camera is the recommended driver for using a Kinect with ROS.

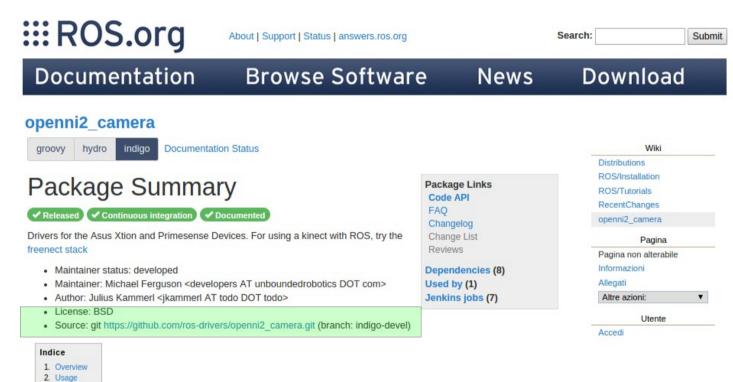
2. Usage

It is recommended to use this driver through the launch files provided in openni2 launch

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Example from a ROS package



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Example from a ROS package



Drivers for the Asus Xtion and Primesense Devices. For using a kinect with ROS, try the freenect stack

- Maintainer status: developed
- Maintainer: Michael Ferguson <developers AT unboundedrobotics DOT com>
- Author: Julius Kammerl <jkammerl AT todo DOT todo>
- License: BSD
- Source: git https://github.com/ros-drivers/openni2_camera.git (branch: indigo-devel)

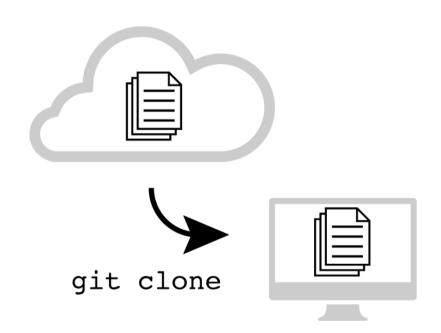
GITHUB

- Online git repository
- Free for open source projects



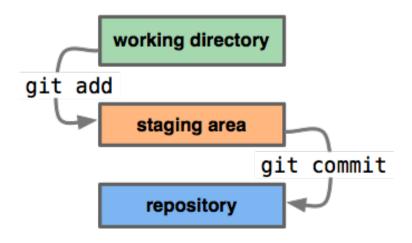
git clone \$URL

copy the whole repository and it's story on the local machine



• git add \$FILE git commit \$MESSAGE

the file new release is confirmed and locked in the local repository.



git pull

downloads the updated files from the remote reposity



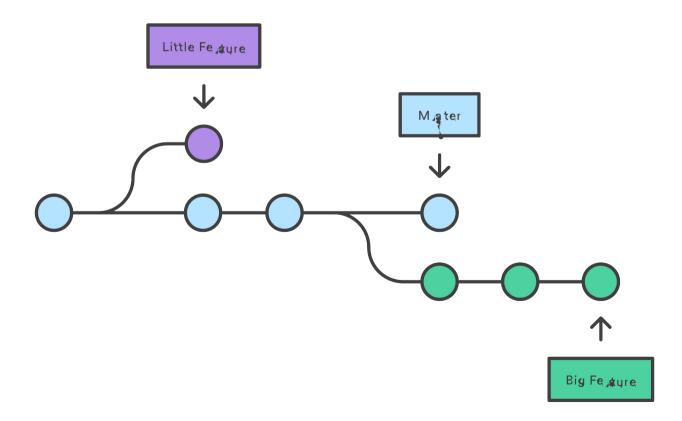
git push

sends the committed files to the remote repository

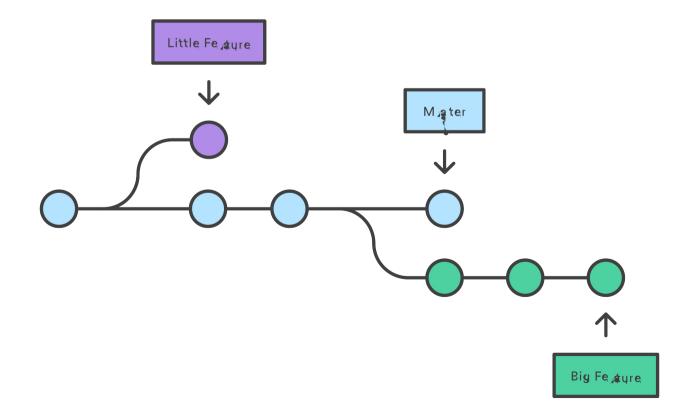


git branch

list all available branches



• git checkout \$BRANCHNAME switch from current branch to \$BRANCHNAME



An example of branches

