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## How to Code (Download) or Clone Something From GitHub

549,577 views 5:44

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Update August 4, 2020: the green 'Download' button shown in this video is now called 'Code'. GitHub has become the place for people to share source code for all sorts of open-source applications ranging from simple single-file Arduino sketches to huge cloud applications consisting of thousands of files, but also other things like electronics design files or simple text documents. Contents ===== [0:00](#) Intro [0:13](#) What is GitHub? [1:08](#) How to download? [1:35](#) Raw mode [1:51](#) The code (was download) button [2:21](#) Arduino complications [3:14](#) Releases [3:57](#) Cloning a repository [5:01](#) Summary

<https://www.youtube.com/watch?v=X5e3xQBeqf8>

PLAY TO ABOUT 2:23 MINUTES.

## OUR BOOK CODE ON GITHUB

<https://github.com/FairchildC>



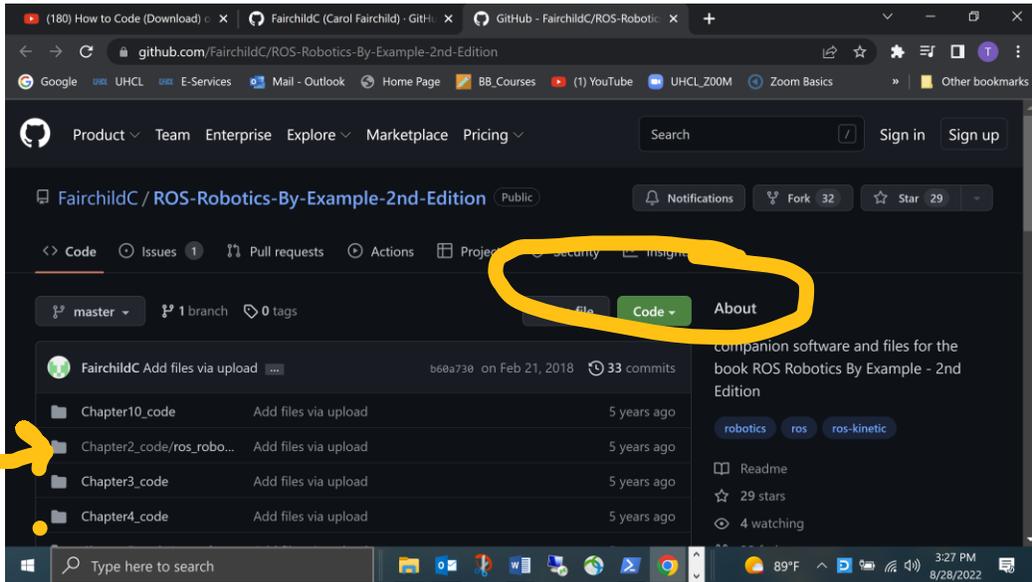
Carol FairchildFairchildC

## Popular repositories For Our Book

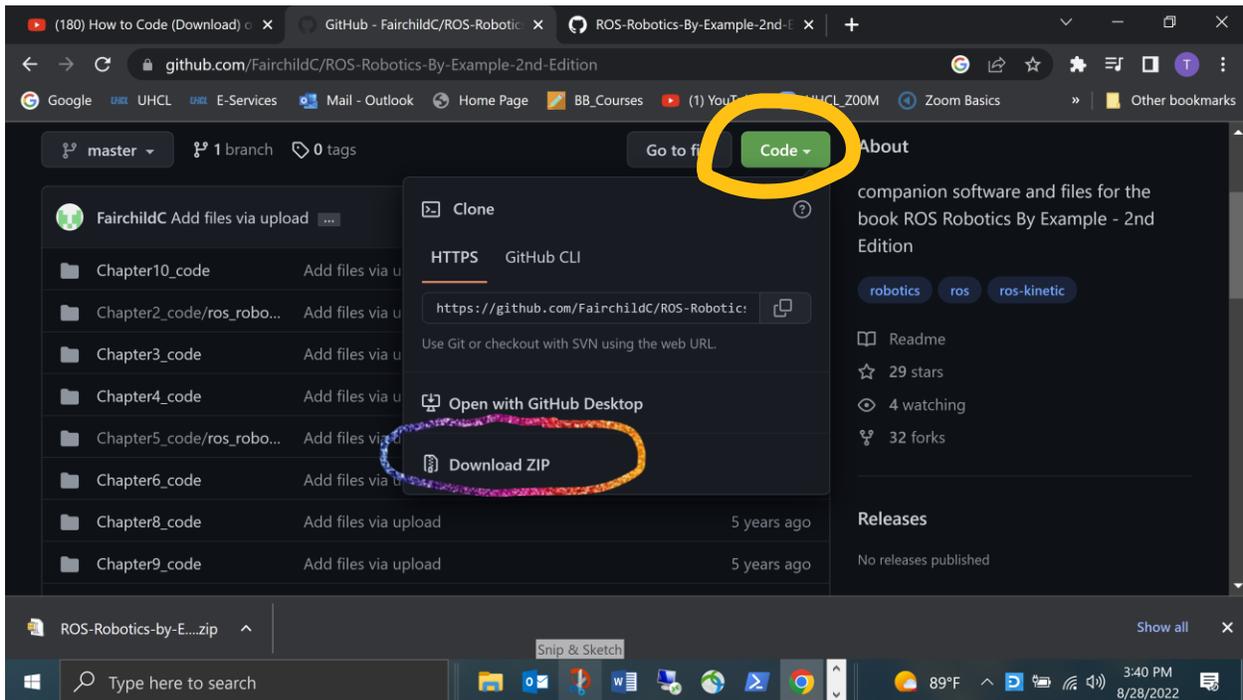
The screenshot shows a web browser window displaying the GitHub profile for 'FairchildC'. The browser's address bar shows 'github.com/FairchildC'. The profile page includes a navigation menu with 'Product', 'Team', 'Enterprise', 'Explore', 'Marketplace', and 'Pricing'. Below the navigation is a search bar and 'Sign in' / 'Sign up' buttons. The main content area shows the user's profile picture (a green and white geometric design) and a 'Popular repositories' section. This section is circled in yellow and contains four repository cards: 'ROS-Robotics-By-Example-2nd-Edition' (Public, Python, 29 stars, 32 forks), 'ROS-Robotics-by-Example' (Public, Python, 22 stars, 16 forks), 'hello-world' (Public, 'My first repository'), and 'Baxter-visual-servoing' (Public). The Windows taskbar at the bottom shows the time as 3:37 PM on 8/28/2022 and the temperature as 89°F.

[ROS-Robotics-By-Example-2nd-Edition](https://github.com/FairchildC/ROS-Robotics-By-Example-2nd-Edition)Public

Companion software and files for the book ROS Robotics By Example - 2nd Edition

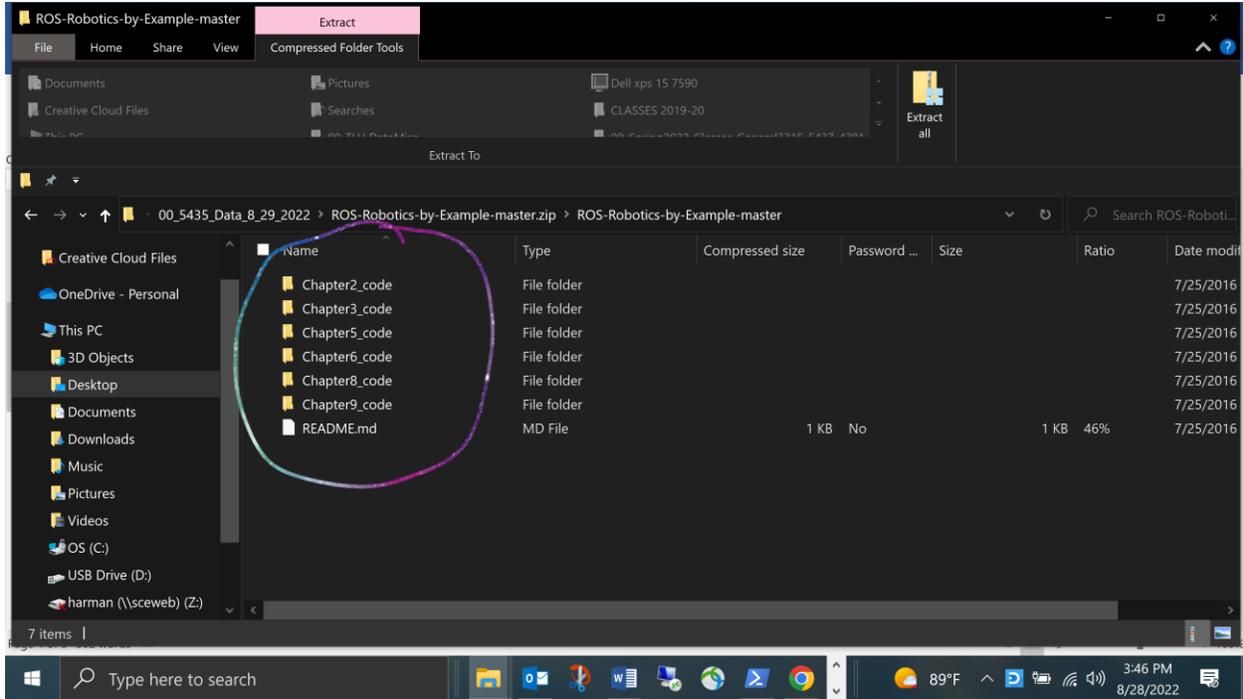


DOWNLOAD ZIP



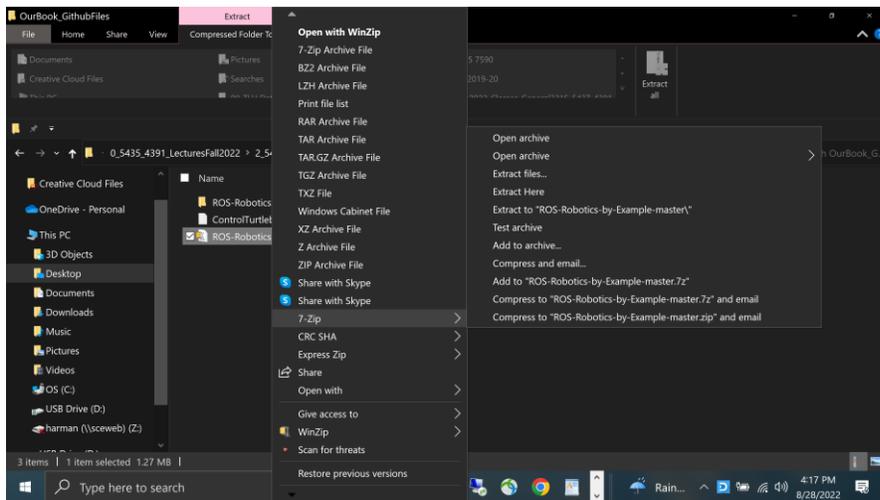
ROS-Robotics-by-Example-master.zip In Downloads – Move to convenient folder

Extract Files With Windows Explorer – or winzip



Try the README in Github

OPEN PYTHON FILES WITH PYTHON TO EXECUTE OR USE WORDPAD to JUST READ.



### Example From Chapter 3 ControlTurtleBot.py

```
#!/usr/bin/env python
# Execute as a python script
# Set linear and angular values of TurtleBot's speed and turning
import rospy          # Needed to create a ROS node
from geometry_msgs.msg import Twist # Message that moves base
class ControlTurtleBot():
    def __init__(self):
        # ControlTurtleBot is name of the node sent to ROS Master
        rospy.init_node('ControlTurtleBot', anonymous=False) etc. ....
```

### WHERE IS THE TURTLESIM CODE?

How to find the source code for a ROS package, say, turtlesim?

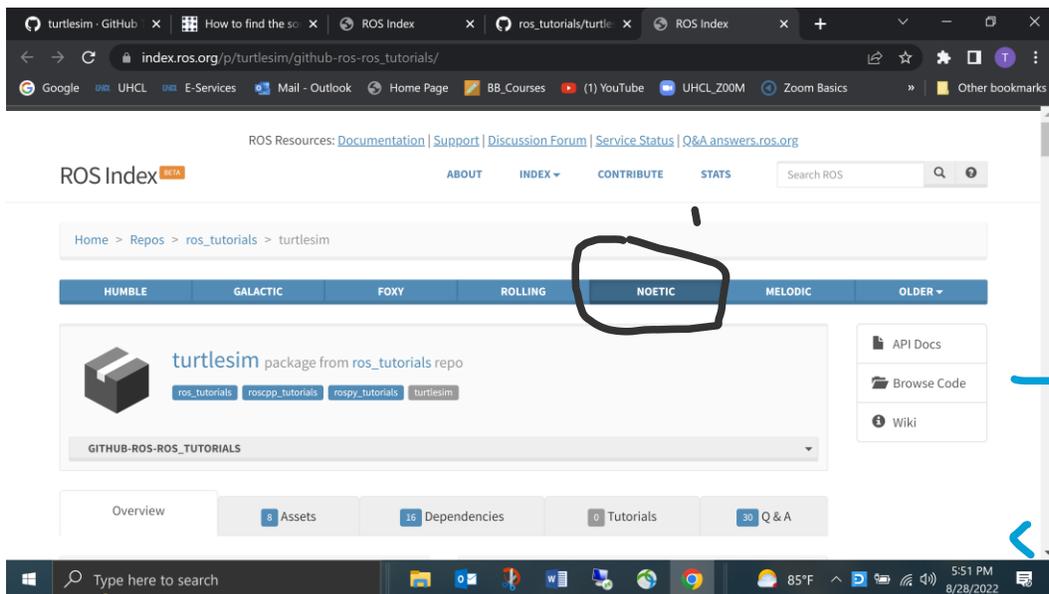
Easiest way to find source code for released (and indexed) packages would be [index.ros.org](http://index.ros.org).

For `turtlesim` specifically: [index.ros.org/p/turtlesim](http://index.ros.org/p/turtlesim):

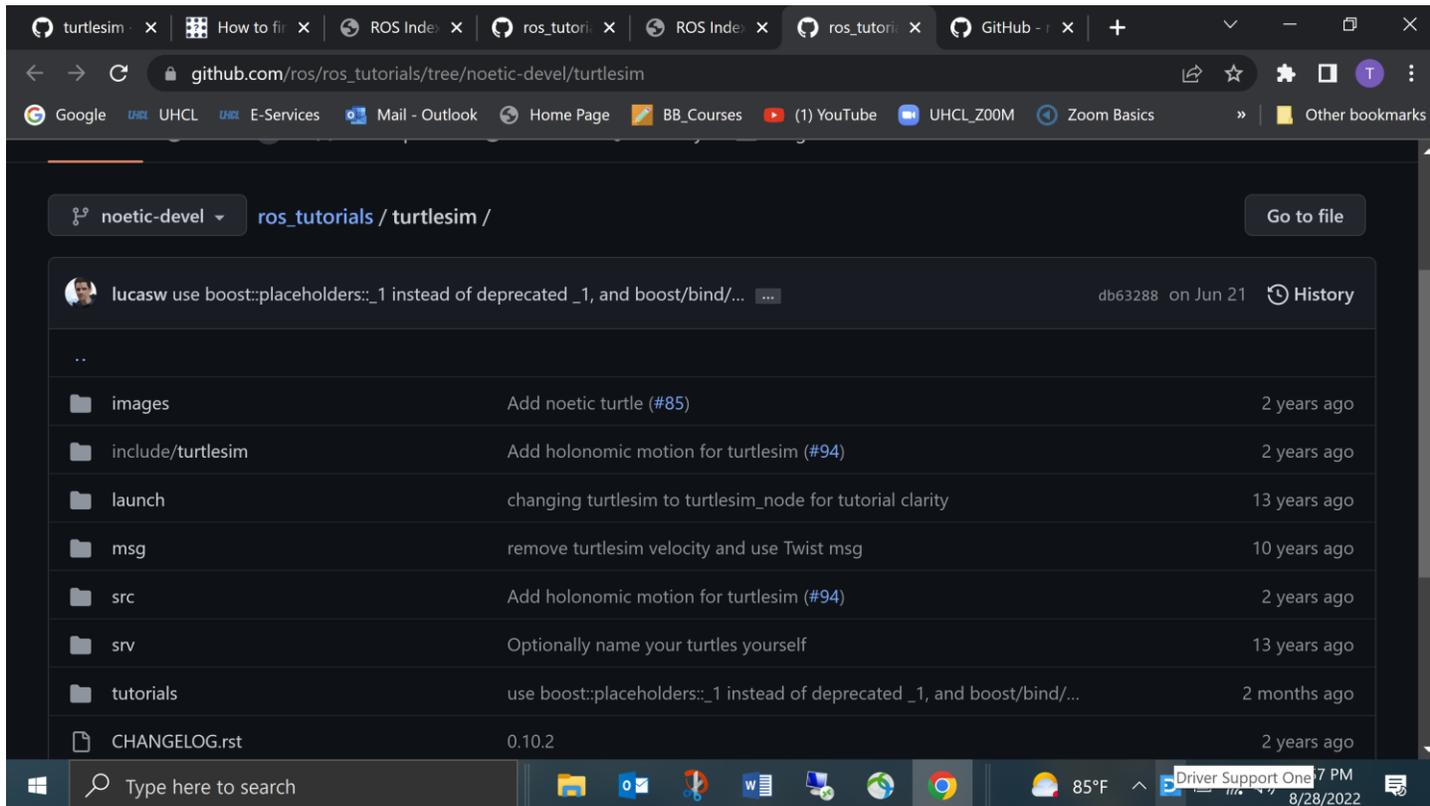
Lets Try It: [index.ros.org/p/turtlesim](http://index.ros.org/p/turtlesim):

Checkout [https://github.com/ros/ros\\_tutorials.git](https://github.com/ros/ros_tutorials.git)  
URI

Or Browse Code on Index Page



## The Turtlesim Files on Github



NOW YOU HAVE IT. Last lines of C Code to draw turtle

Remember Turtle is half way in x and y (5.5)

```
void Turtle::paint(QPainter& painter)
{
    QPointF p = pos_ * meter_;
    p.rx() -= 0.5 * turtle_rotated_image_.width();
    p.ry() -= 0.5 * turtle_rotated_image_.height();
    painter.drawImage(p, turtle_rotated_image_);
}
```

## GIT AND GITHUB REFERENCES

GitHub: <https://github.com/>

**How to Use GitHub 123,971 views 13:03**

[https://www.youtube.com/watch?v=v\\_1igtOnUMg](https://www.youtube.com/watch?v=v_1igtOnUMg)

### **This is for Version Control if you are loading files to Git**

In this tutorial, we install Git and clone an existing Git repository to our computer. We then make a file, add it to a commit, and push the commit to the GitHub server.

2. Introduction to Git/GitHub - ROS (C++) With Git From The Ground Up Tutorial Series

497 views Sep 4, 2020 [Retro Engineer](#)

<https://www.youtube.com/watch?v=7-vXyvzCS94>