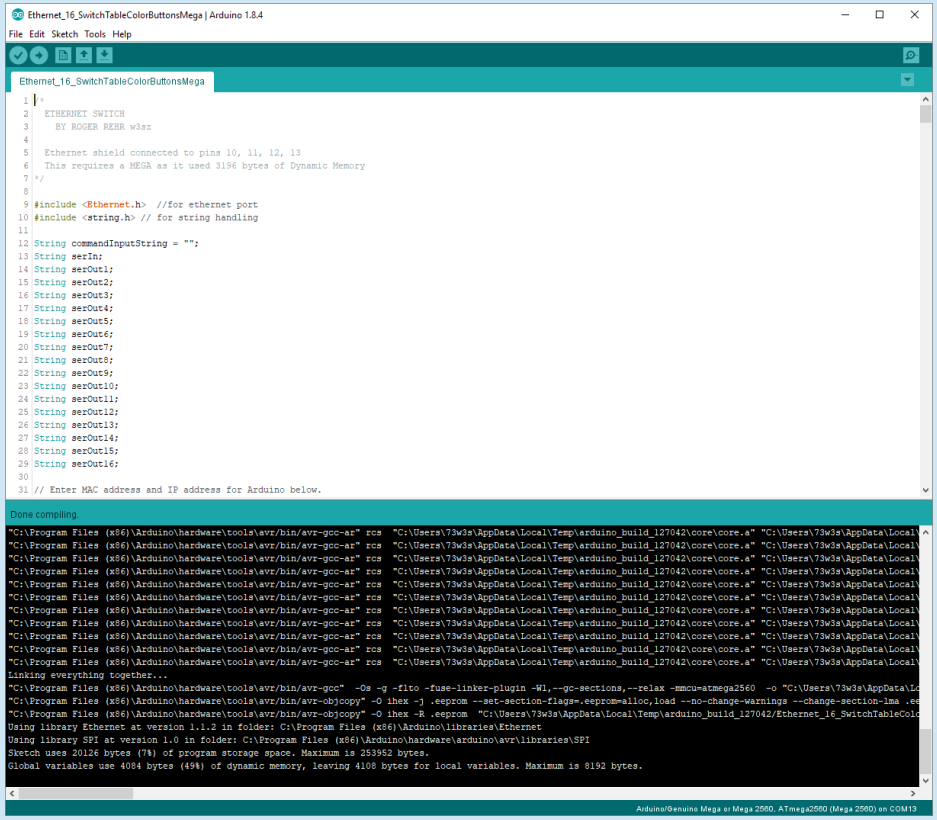
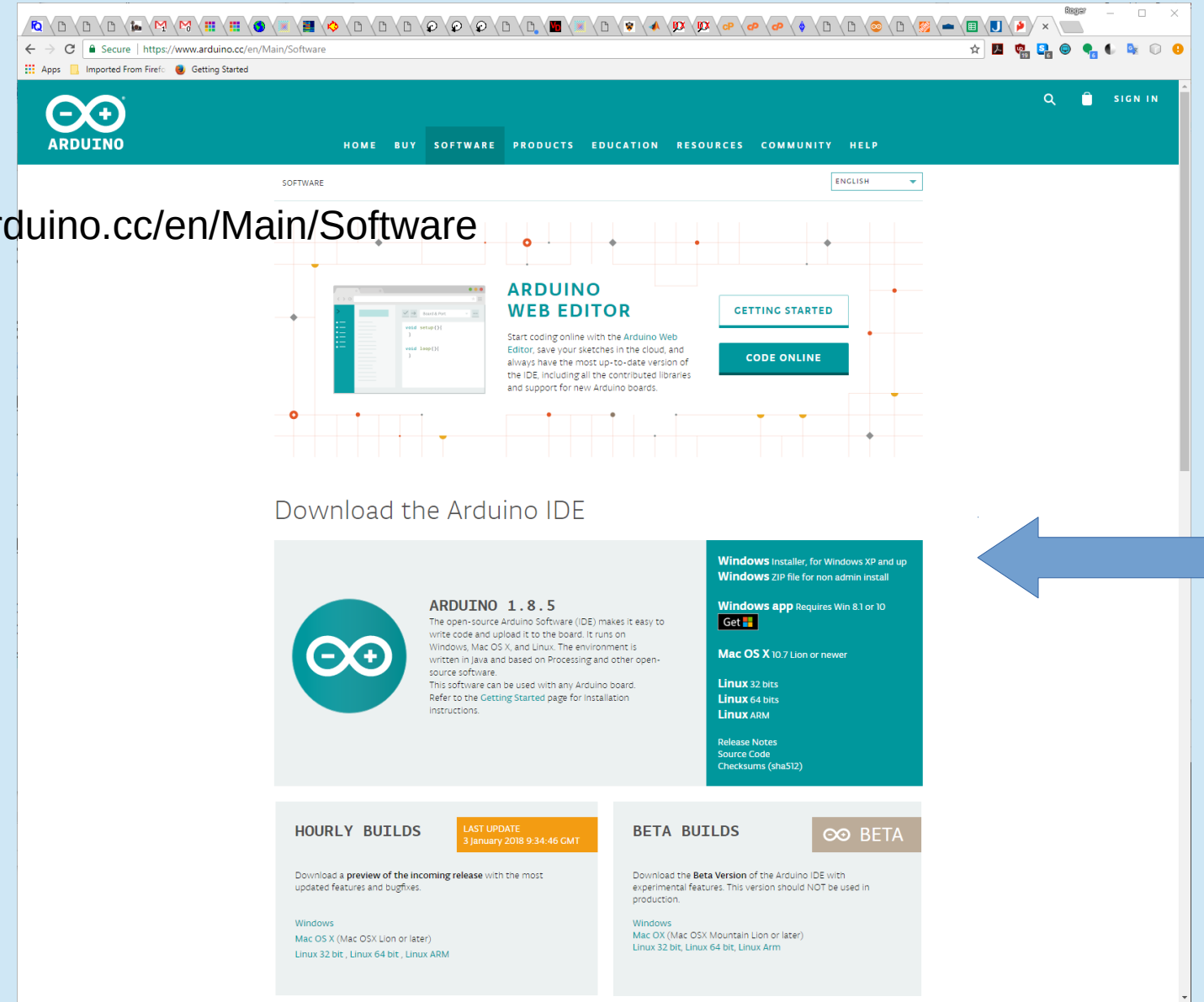
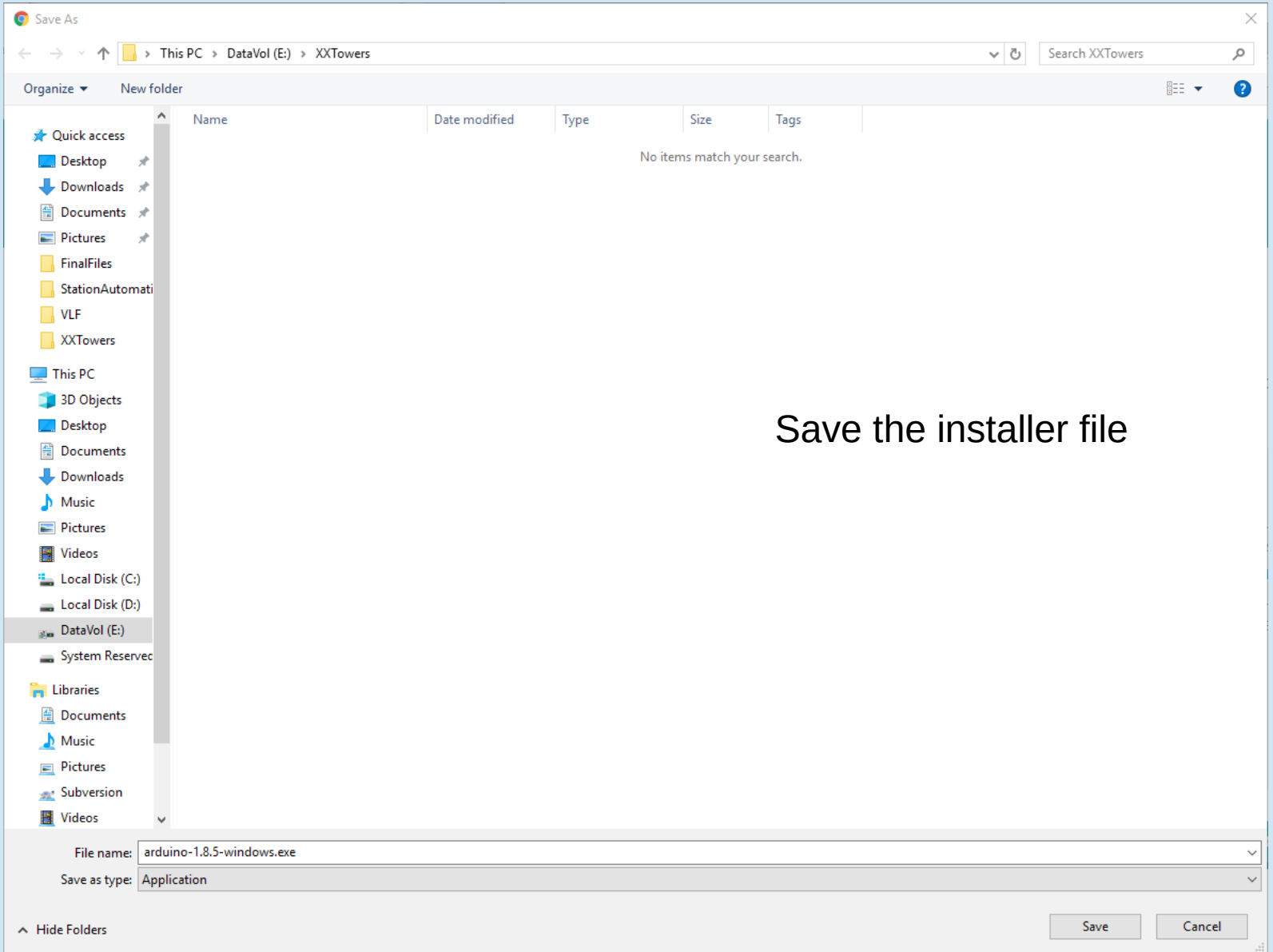
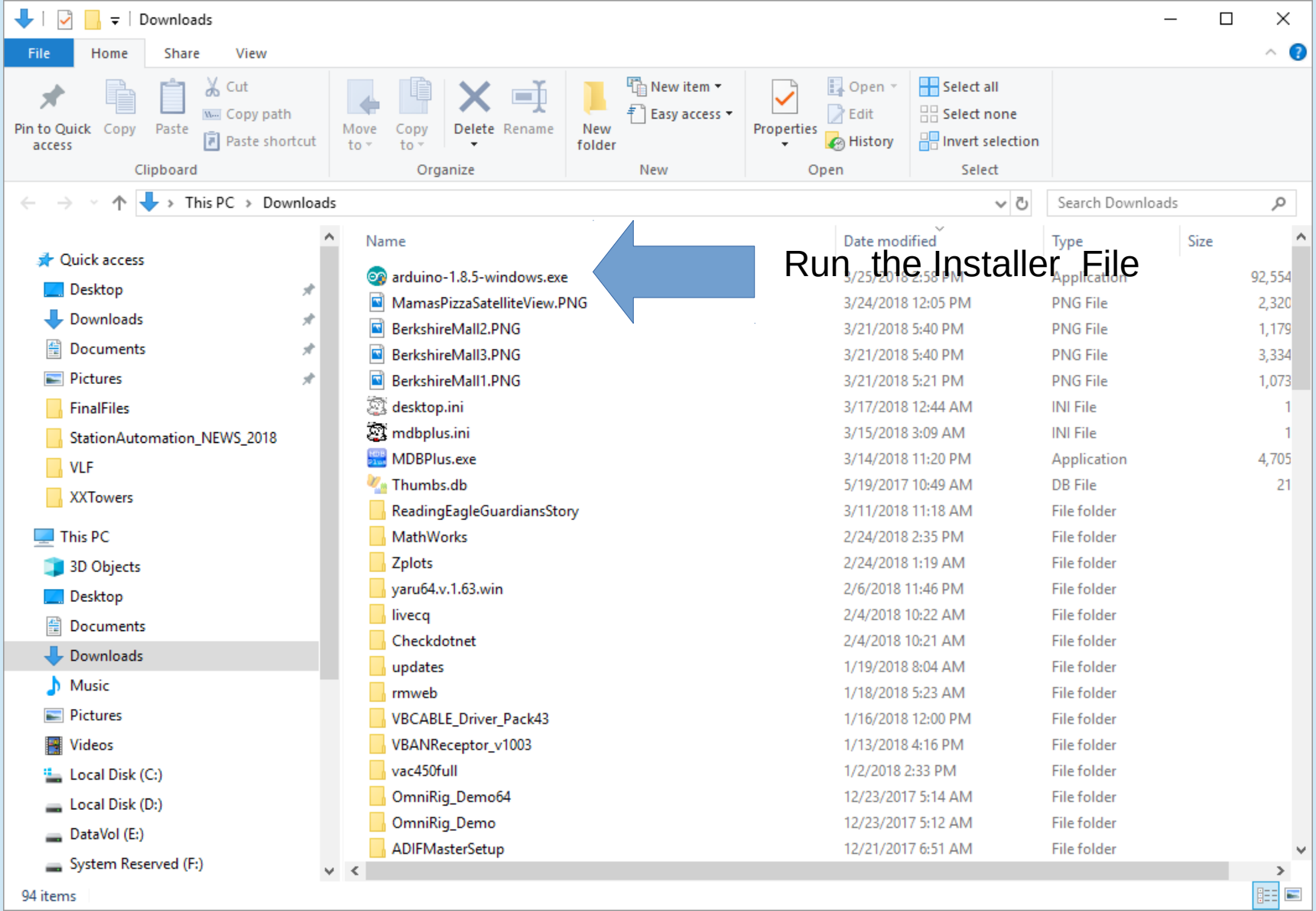
Getting Started With Arduino

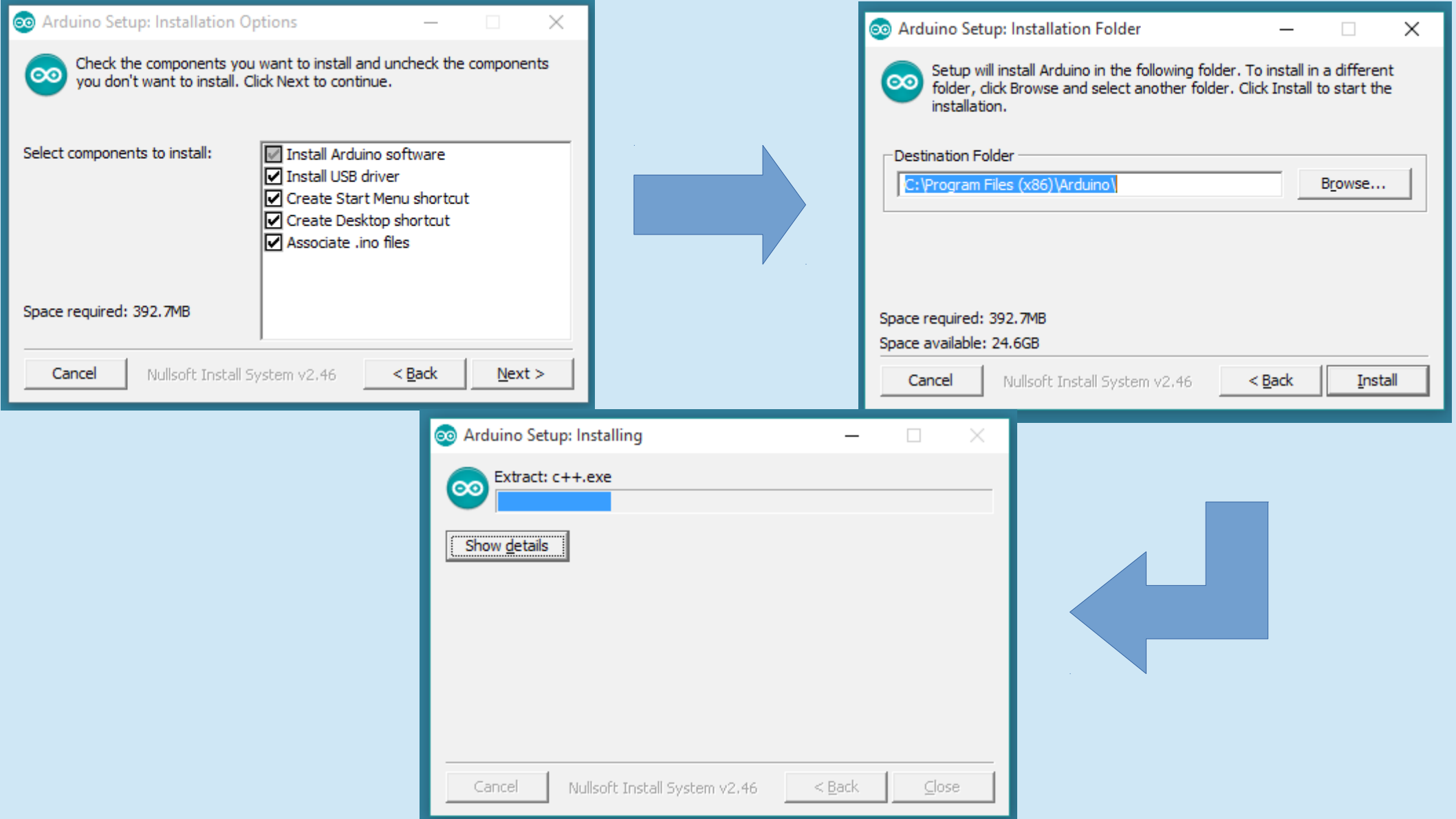


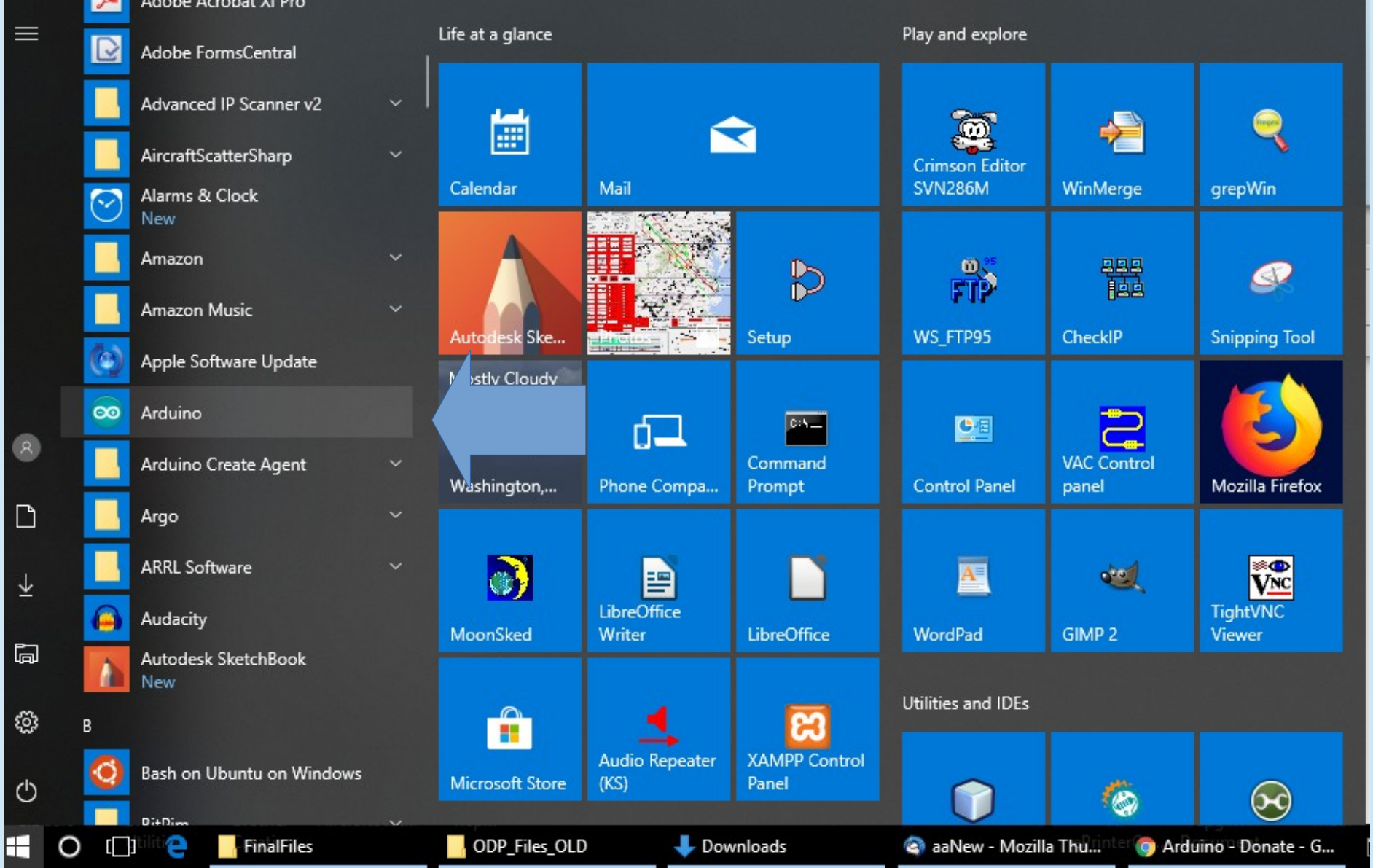
https://www.arduino.cc/en/Main/Software



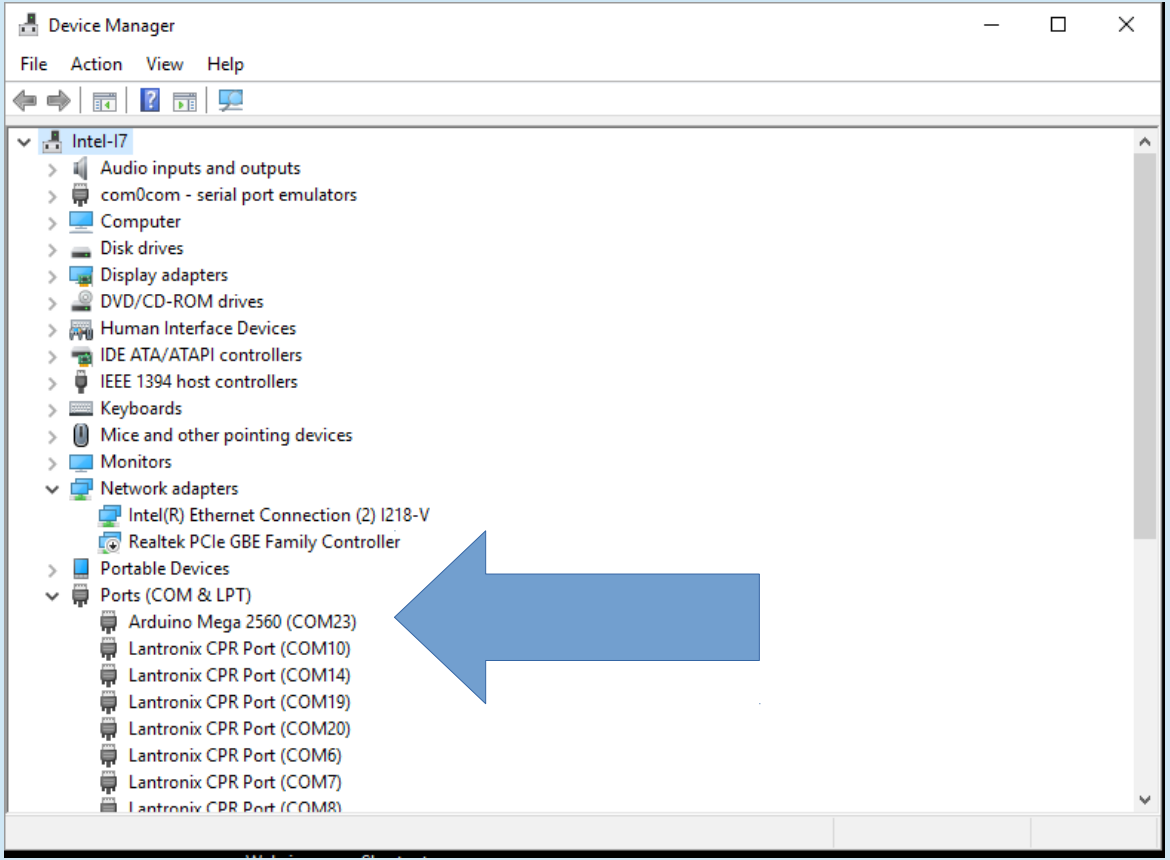

Save As
This PC › DataVol (E:) › XXTowers
Search XXTowers
Organize
New folder
Name
Date modified
Type
Size
Tags
No items match your search.
Quick access
Desktop
Downloads
Documents
Pictures
FinalFiles
StationAutomati
VLF
XXTowers
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
Local Disk (D:)
DataVol (E:)
System Reservec
Libraries
Documents
Music
Pictures
Subversion
Videos
Save the installer file
File name:
arduino-1.8.5-windows.exe
Save as type:
Application
Hide Folders
Save
Cancel


Downloads
File
Home
Share
View
Pin to Quick access
Copy
Paste
Cut
Copy path
Paste shortcut
Clipboard
Move to
Copy to
Delete
Rename
Organize
New folder
New item
Easy access
New
Properties
Open
Edit
History
Open
Select all
Select none
Invert selection
Select
This PC
Downloads
Search Downloads
Quick access
Desktop
Downloads
Documents
Pictures
FinalFiles
StationAutomation_NEWS_2018
VLF
XXTowers
This PC
3D Objects
Desktop
Documents
Downloads
Music
Pictures
Videos
Local Disk (C:)
Local Disk (D:)
DataVol (E:)
System Reserved (F:)
Name
Date modified
Type
Size
arduino-1.8.5-windows.exe
MamasPizzaSatelliteView.PNG
3/24/2018 12:05 PM
PNG File
2,320
BerkshireMall2.PNG
3/21/2018 5:40 PM
PNG File
1,179
BerkshireMall3.PNG
3/21/2018 5:40 PM
PNG File
3,334
BerkshireMall1.PNG
3/21/2018 5:21 PM
PNG File
1,073
desktop.ini
3/17/2018 12:44 AM
INI File
1
mdbplus.ini
3/15/2018 3:09 AM
INI File
1
MDBPlus.exe
3/14/2018 11:20 PM
Application
4,705
Thumbs.db
5/19/2017 10:49 AM
DB File
21
ReadingEagleGuardiansStory
3/11/2018 11:18 AM
File folder
MathWorks
2/24/2018 2:35 PM
File folder
Zplots
2/24/2018 1:19 AM
File folder
yaru64.v.1.63.win
2/6/2018 11:46 PM
File folder
livecq
2/4/2018 10:22 AM
File folder
Checkdotnet
2/4/2018 10:21 AM
File folder
updates
1/19/2018 8:04 AM
File folder
rmweb
1/18/2018 5:23 AM
File folder
VBCABLE_Driver_Pack43
1/16/2018 12:00 PM
File folder
VBANReceptor_v1003
1/13/2018 4:16 PM
File folder
vac450full
1/2/2018 2:33 PM
File folder
OmniRig_Demo64
12/23/2017 5:14 AM
File folder
OmniRig_Demo
12/23/2017 5:12 AM
File folder
ADIFMasterSetup
12/21/2017 6:51 AM
File folder
Run the Installer File
94 items


Arduino Setup: Installation Options
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select components to install:
Install Arduino software
Install USB driver
Create Start Menu shortcut
Create Desktop shortcut
Associate .ino files
Space required: 392.7MB
Cancel
Nullsoft Install System v2.46
< Back
Next >
Arduino Setup: Installation Folder
Setup will install Arduino in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files (x86)\Arduino\
Browse...
Space required: 392.7MB
Space available: 24.6GB
Cancel
Nullsoft Install System v2.46
< Back
Install
Arduino Setup: Installing
Extract: c++.exe
Show details
Cancel
Nullsoft Install System v2.46
< Back
Close

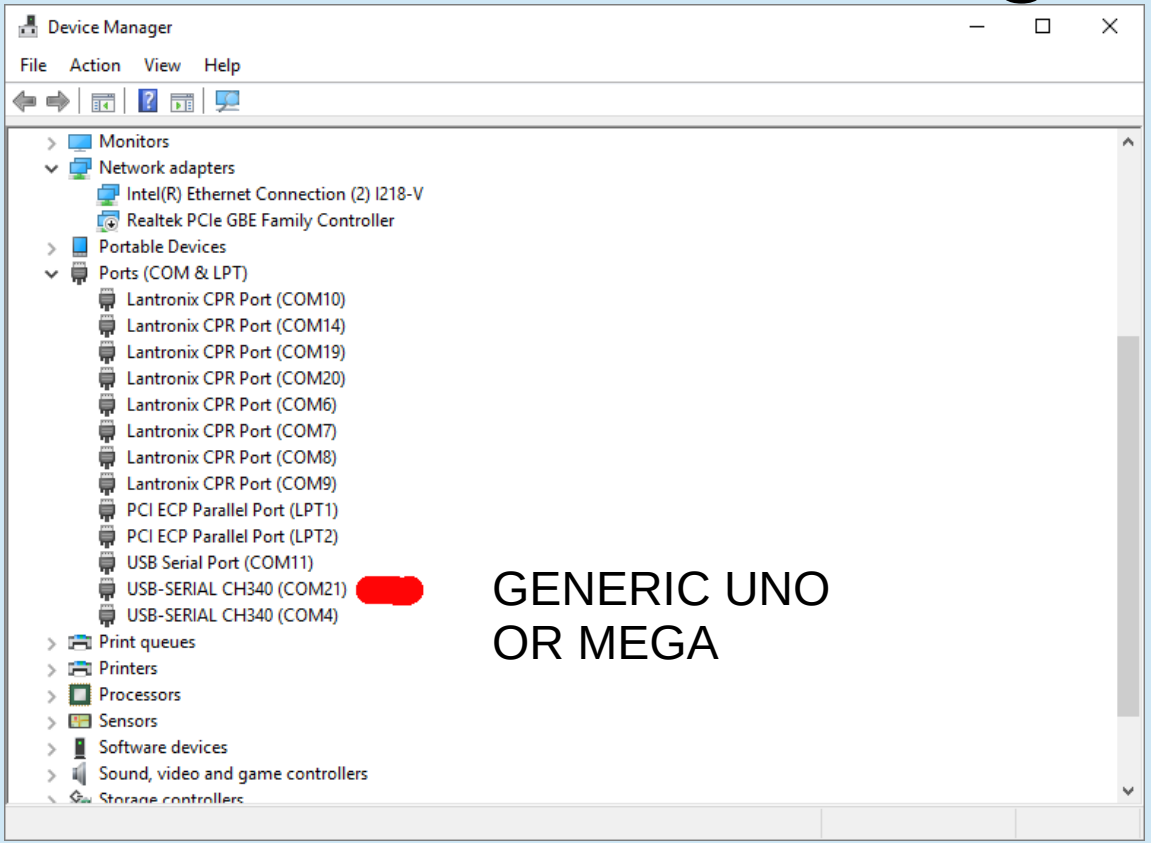

Adobe Acrobat XI Pro
Adobe FormsCentral
Advanced IP Scanner v2
AircraftScatterSharp
Alarms & Clock
New
Amazon
Amazon Music
Apple Software Update
Arduino
Arduino Create Agent
Argo
ARRL Software
Audacity
Autodesk SketchBook
New
B
Bash on Ubuntu on Windows
Life at a glance
Calendar
Mail
Autodesk Ske...
Setup
Washington,...
Phone Compa...
Command Prompt
MoonSked
LibreOffice Writer
LibreOffice
Microsoft Store
Audio Repeater (KS)
XAMPP Control Panel
Play and explore
Crimson Editor SVN286M
WinMerge
grepWin
WS_FTP95
CheckIP
Snipping Tool
Control Panel
VAC Control panel
Mozilla Firefox
WordPad
GIMP 2
TightVNC Viewer
Utilities and IDEs
FinalFiles
ODP_Files_OLD
Downloads
aaNew - Mozilla Thu...
Arduino - Donate - G...

Plug your Arduino into a USB port and check if the driver is installed



Some devices (e.g. UNO) aren't named in Device Manager

Need to plug and unplug device to determine COM port assignment



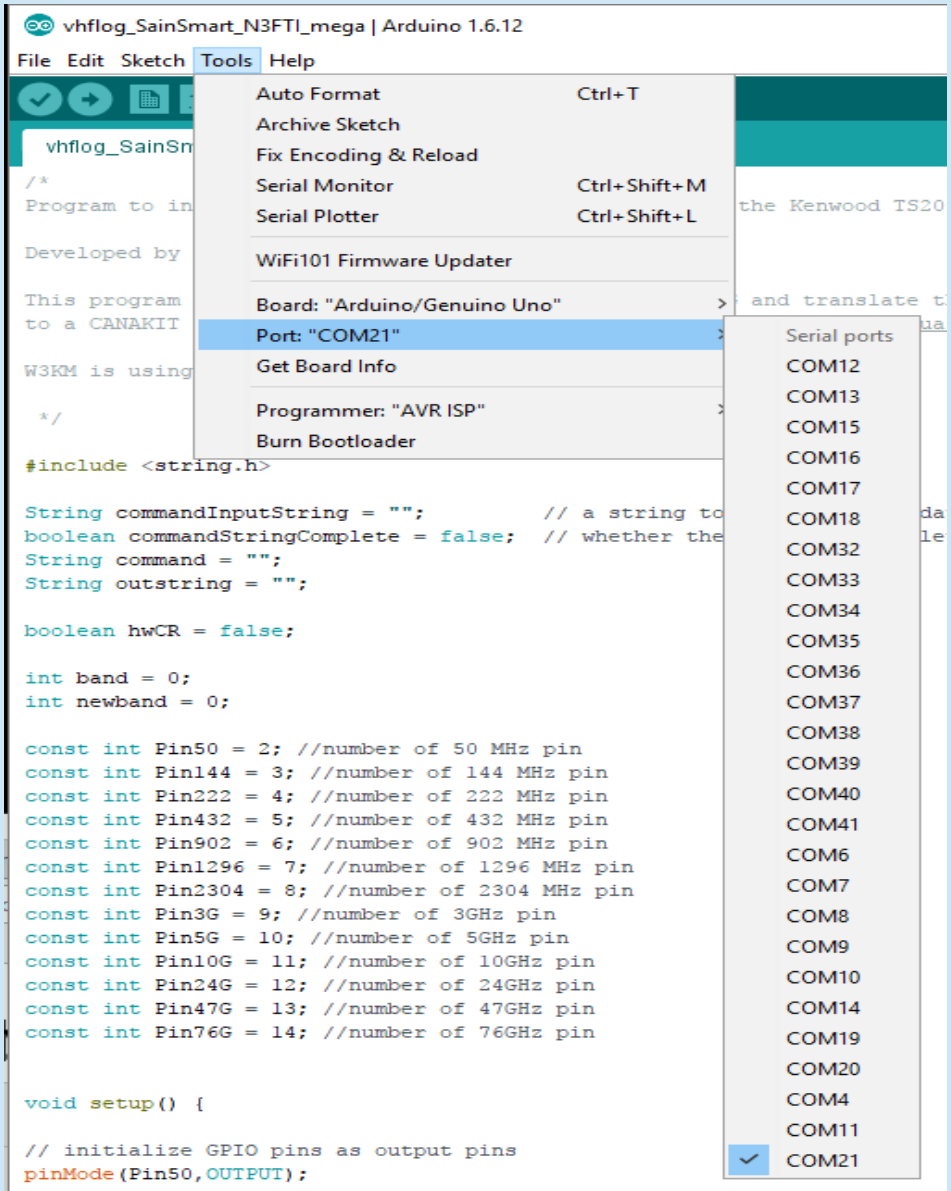
Arduino
Getting Ready

- Download the IDE and Install it. That should also install the driver. If it doesn't, download and install drivers from http://www.wch.cn/download/CH341SER_EXE.html

Arduino

Getting Ready

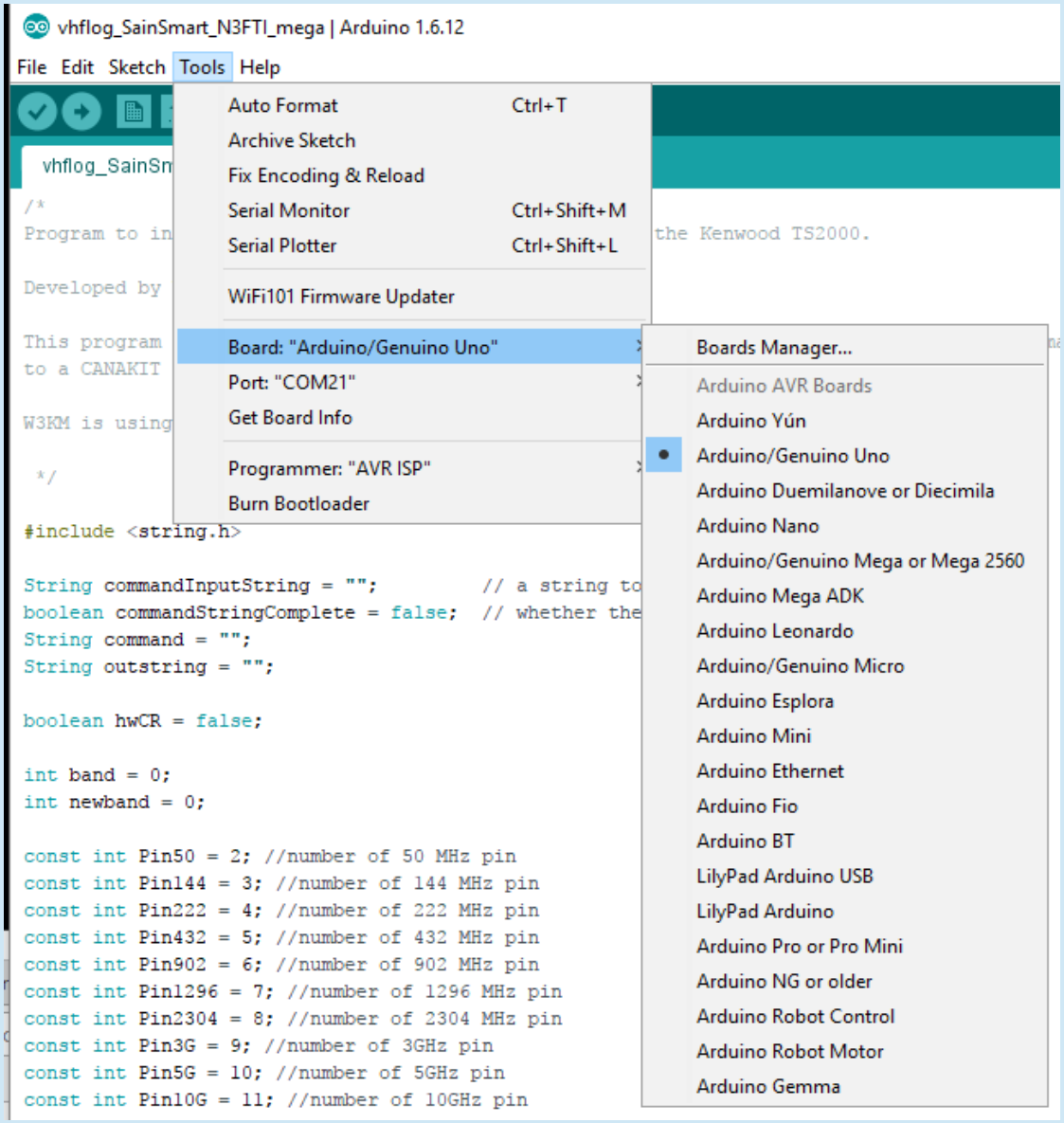
- Start the IDE
- Select COM port



Arduino

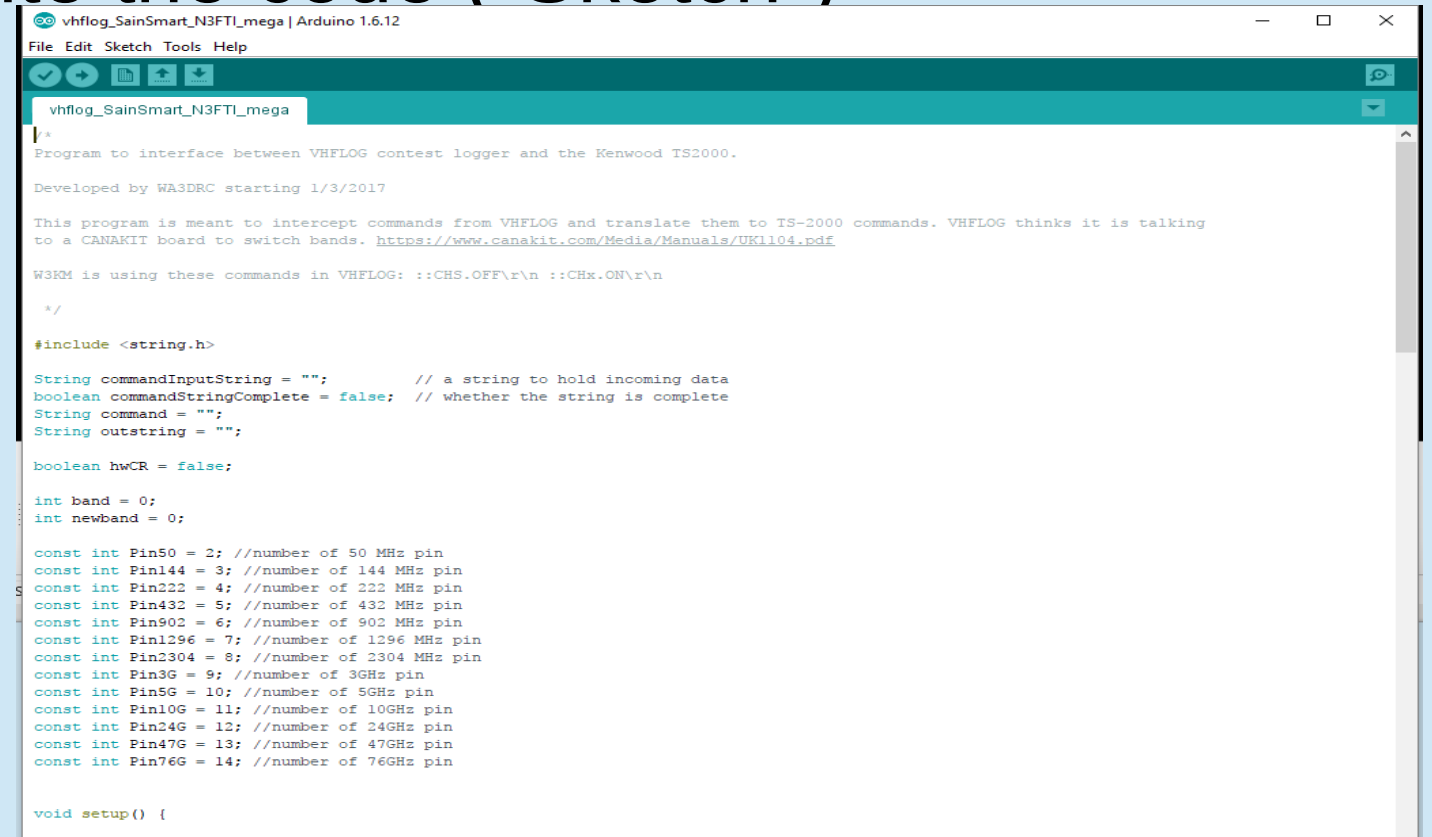
Getting Ready

- Start the IDE
- Select COM port
- Select Arduino Type



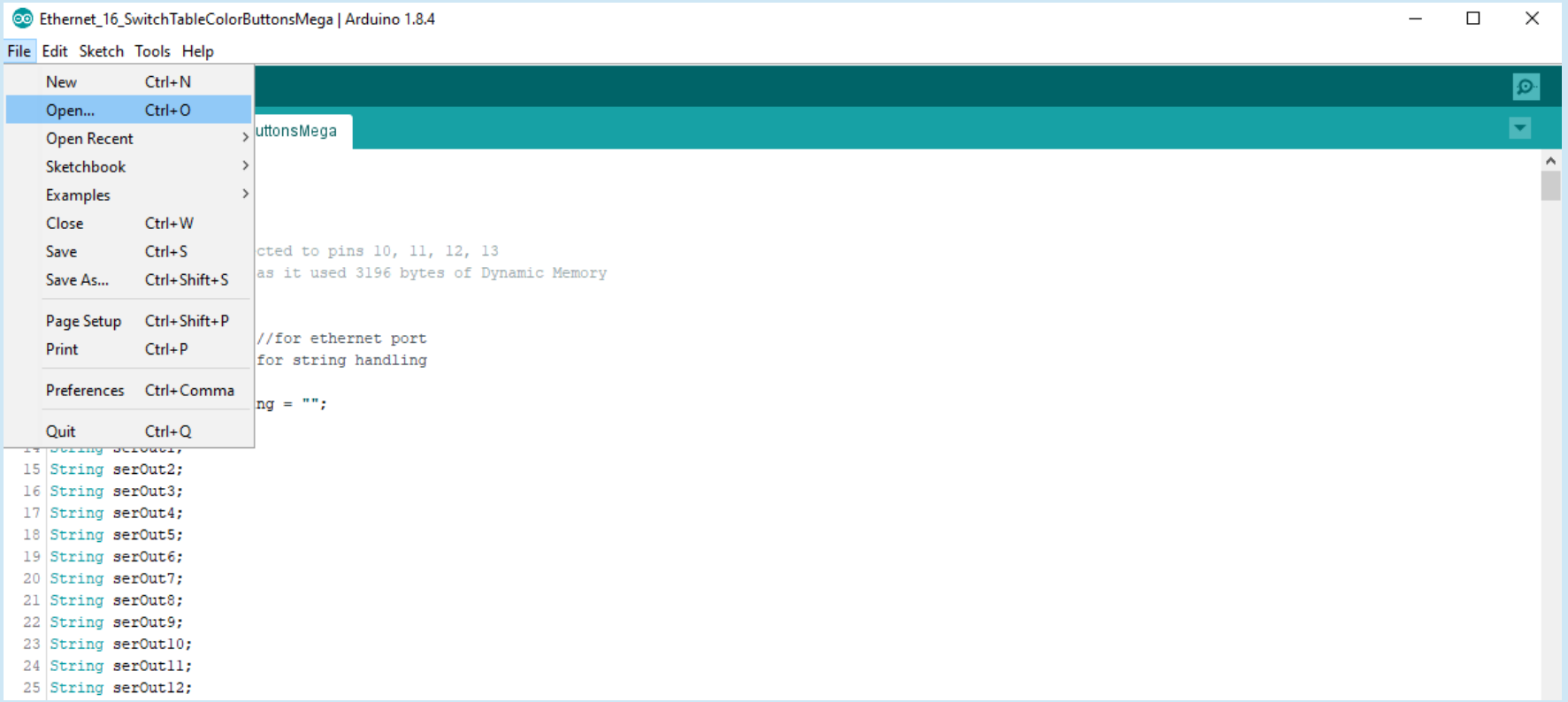
Arduino
Getting Ready

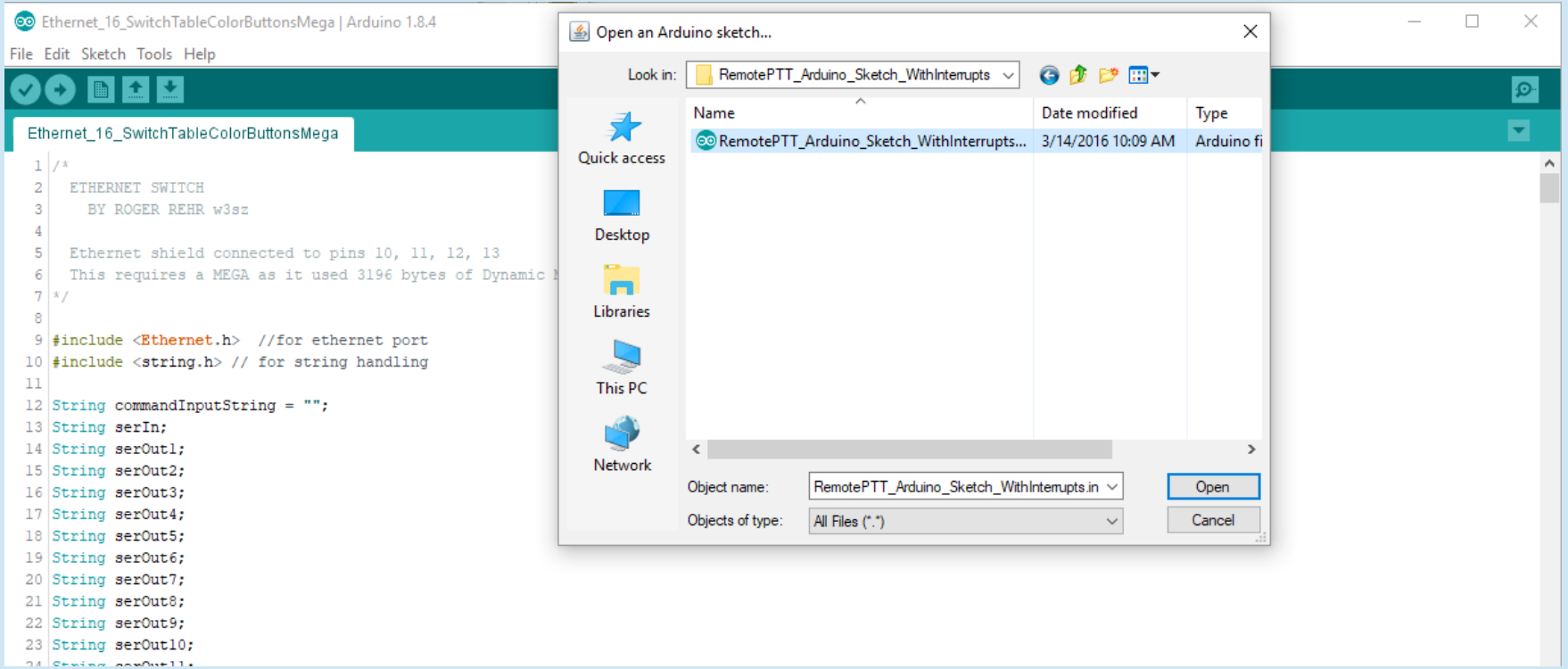
- Write the code (“Sketch”)

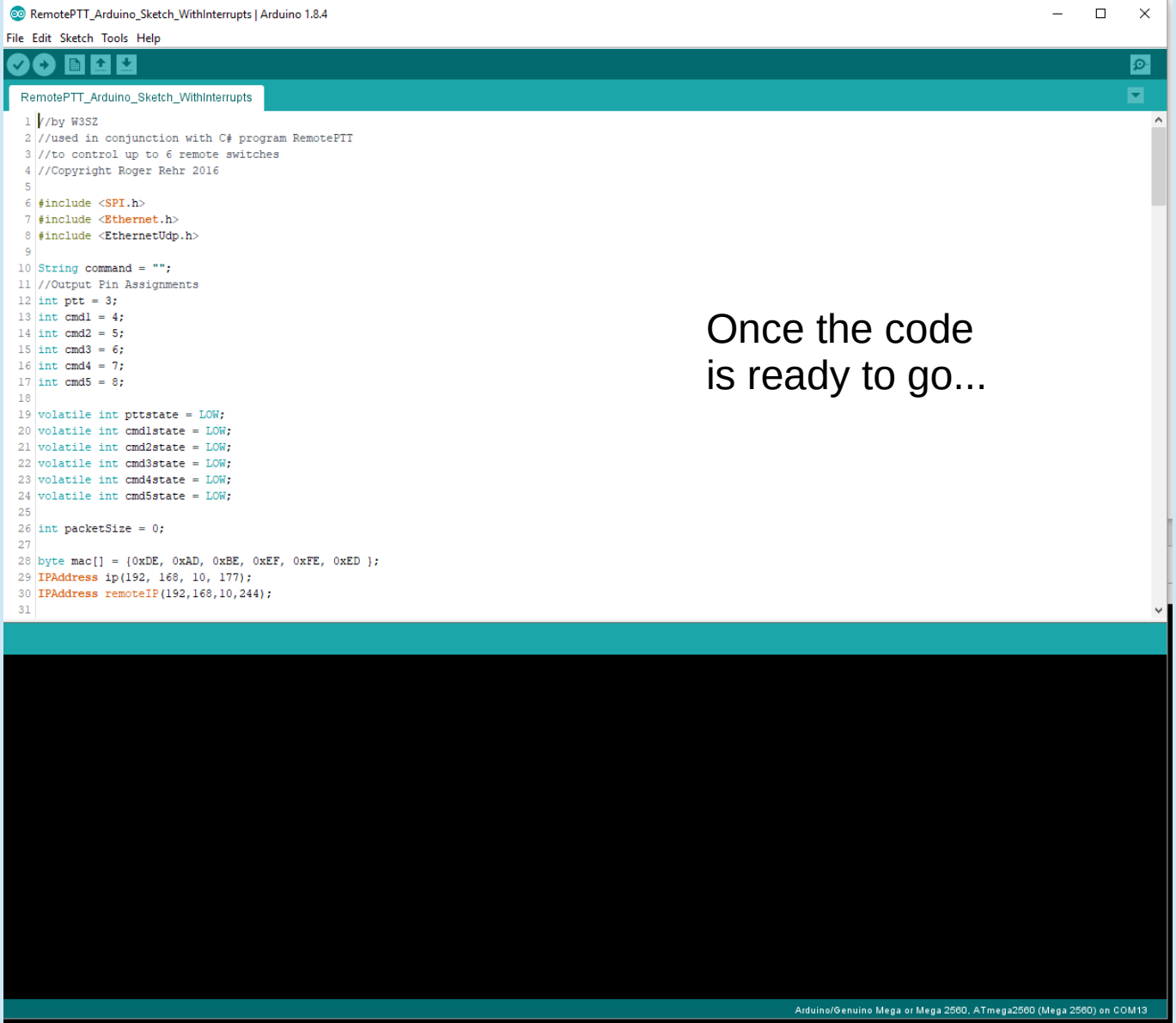


Arduino

- Or, open a pre-existing sketch (.ino file)




Ethernet_16_SwitchTableColorButtonsMega | Arduino 1.8.4
File Edit Sketch Tools Help
Ethernet_16_SwitchTableColorButtonsMega
/*
ETHERNET SWITCH
BY ROGER REHR w3sz
Ethernet shield connected to pins 10, 11, 12, 13
This requires a MEGA as it used 3196 bytes of Dynamic
*/
#include <Ethernet.h> //for ethernet port
#include <string.h> // for string handling
String commandInputString = "";
String serIn;
String serOut1;
String serOut2;
String serOut3;
String serOut4;
String serOut5;
String serOut6;
String serOut7;
String serOut8;
String serOut9;
String serOut10;
Open an Arduino sketch...
Look in: RemotePTT_Arduino_Sketch_WithInterrupts
Quick access
Desktop
Libraries
This PC
Network
Name
Date modified
Type
RemotePTT_Arduino_Sketch_WithInterrupts...
3/14/2016 10:09 AM
Arduino fi
Object name: RemotePTT_Arduino_Sketch_WithInterrupts.in
Objects of type: All Files (*.*)
Open
Cancel

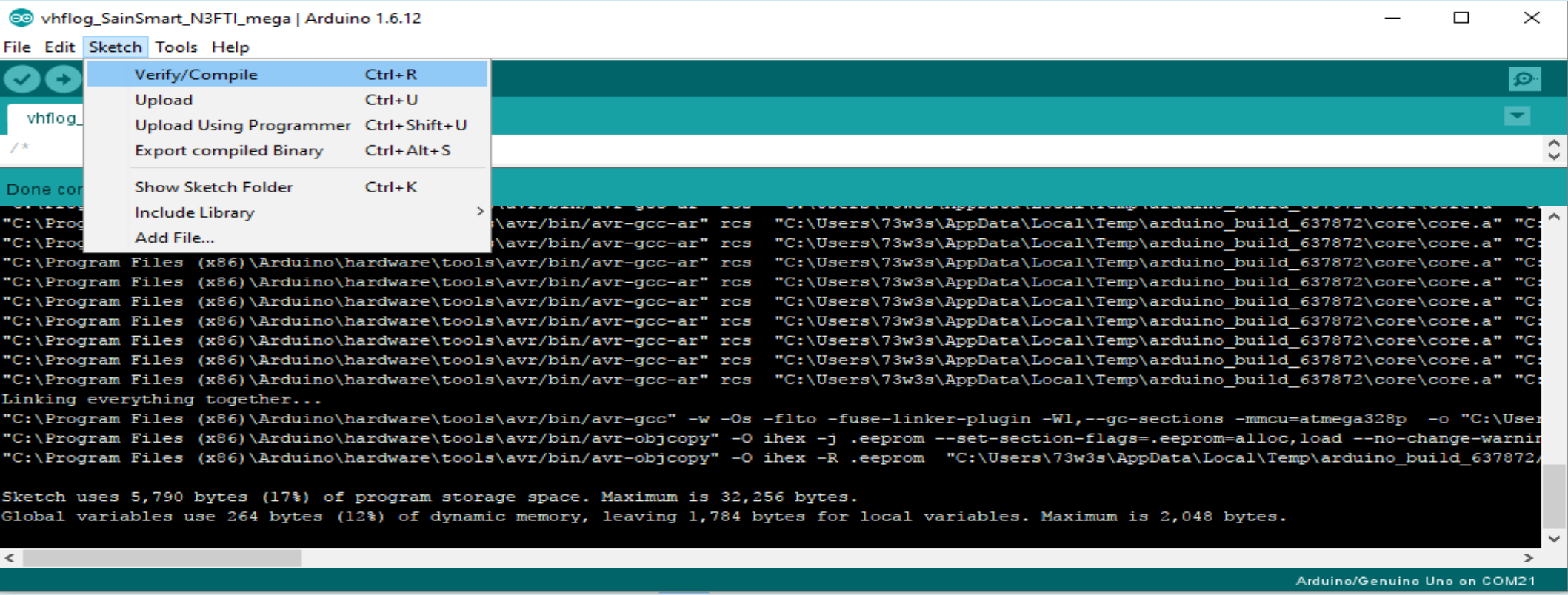


Once the code
is ready to go...

Arduino

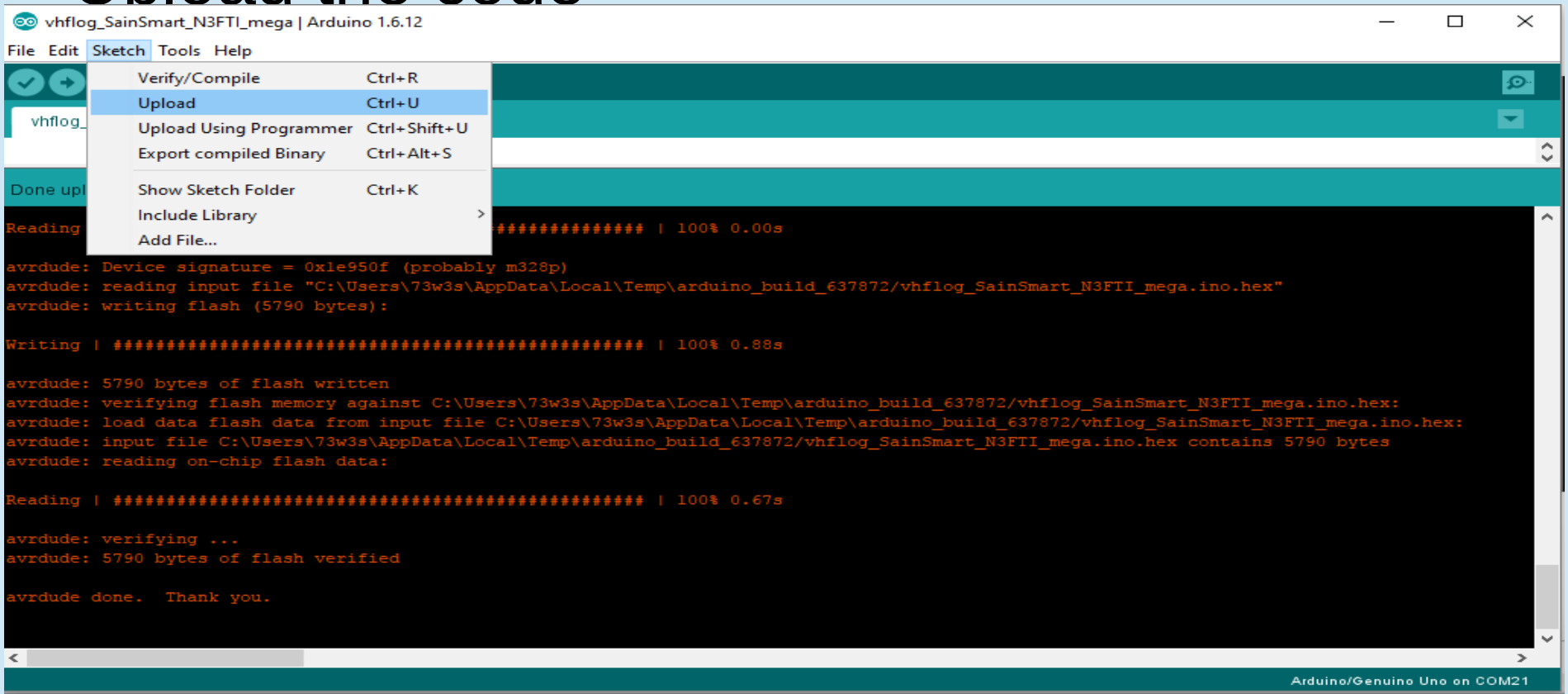
Getting Ready

- Verify and Compile the code



Arduino
Getting Ready

- Upload the code

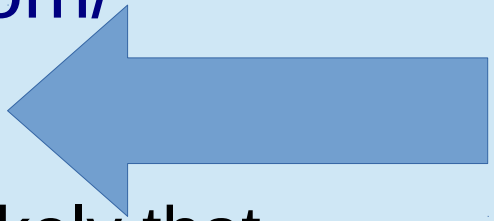


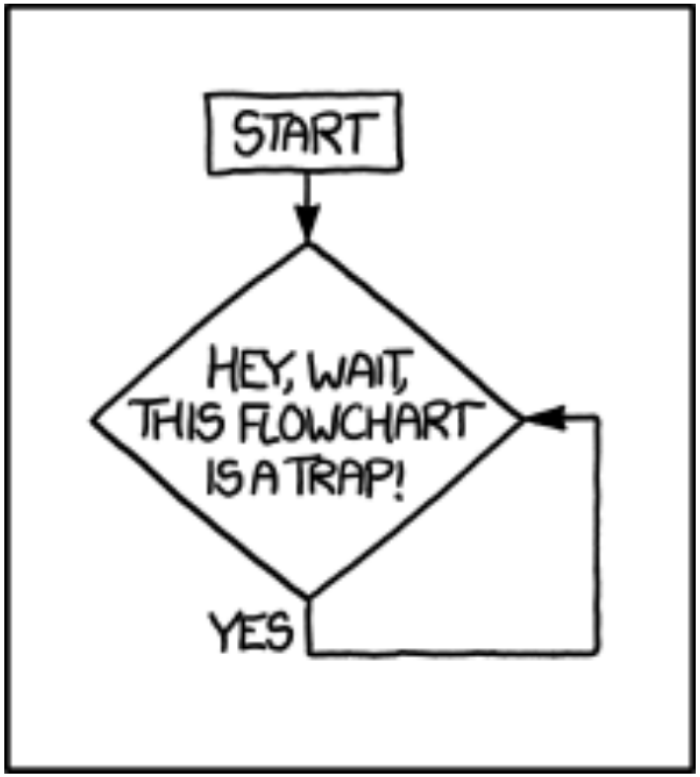
Where to Look for Help

- There is an excellent Arduino tutorial here:
  - https://www.tutorialspoint.com/arduino/index.htm
- There is an active **forum** at:
  - https://forum.arduino.cc/
- The **Auduino Playground** has many open-source **sketches** (programs) that you can copy, modify, use:
  - https://playground.arduino.cc/

Where to Look for Help

- There is an **Arduino StackExchange!**
  - https://arduino.stackexchange.com/
- **Google is your (BEST) Friend!!**
  - No matter what you want to do, it is likely that someone else has done something like it. So don't reinvent the wheel! Start with their code and modify it as necessary.





The way out is to use the marker you have to add a box that says 'get a marker' to the line between you and 'start', then add a 'no' line from the trap box to 'end'.