

# Pyxis OS Quick Start Guide

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## Installing files on your computer:

1. Locate and open your pyxis.zip file
2. Extract the PyxisTSS folder from inside the “core” directory in the zip file to your Arduino cores directory (ie c:\program files\arduino\arduino\hardware\cores)
3. Extract all of the folders inside the “libraries” directory in the zip file to your Arduino libraries directory (ie c:\ program files\arduino\arduino\hardware\libraries)
4. Extract the folders inside the “arduino projects” to your Arduino projects directory (ie My Documents\Arduino\)

## Preparing the IDE

In order to keep the PyxisTSS core separate from the standard TouchShield Slide core you’ll need to make a new entry into your boards.txt file, usually found in c:\ program files\arduino\arduino\hardware\ boards.txt. Place the following lines at the end of the text document:

```
pyxis_tss.name=Pyxis TSS
```

```
pyxis_tss.upload.protocol=butterfly  
pyxis_tss.upload.maximum_size=258048  
pyxis_tss.upload.speed=57600
```

```
pyxis_tss.bootloader.low_fuses=0xFF  
pyxis_tss.bootloader.high_fuses=0x98  
pyxis_tss.bootloader.extended_fuses=0xFB  
pyxis_tss.bootloader.path=PyxisTSS  
pyxis_tss.bootloader.file=PyxisTSS_boot.hex  
pyxis_tss.bootloader.unlock_bits=0xFF  
pyxis_tss.bootloader.lock_bits=0xFF
```

```
pyxis_tss.build.mcu=atmega2560  
pyxis_tss.build.f_cpu=16000000L  
pyxis_tss.build.core=PyxisTSS
```

## Installing PyxisTSS on your TouchShield Slide:

1. Open the Arduino IDE of your choice
2. Open the PyxisLCD project
3. Select PyxisTSS for your board
4. Upload the program to your TouchShield Slide

## Installing Pyxis OS on your Arduino Mega

1. Keeping your Arduino IDE open select the PyxisOS project
2. Select Arduino Mega for your board
3. Upload the project

\*NOTE: The Liquidware version of the IDE may have issues uploading the project, if it does please use the IDE from <http://www.arduino.cc>

## Uploading images to the TouchShield Slide

You can upload images to your TouchShield Slide in one of two ways. You can either use the FlashTransfer gadget from Liquidware or you can use the PyxisTSS beta desktop.

### Using the FlashTransfer Gadget

1. Upload the gadget to your TouchShield Slide
2. Click the Data tab
3. Drag the files from the “tss img” directory in your ZIP file to the file list
4. Click Upload

### Using the Beta Desktop

1. Open the Arduino IDE
2. Select the PyxisOS project
3. Add *OS.displayDesktop();* in *Setup()* just below *OS.boot();*
4. Upload to your board
5. Turn on the device (be sure to keep the USB cable connected)
6. Wait for the desktop to come up
7. The screen *will* look off because it’s trying to render images that aren’t there; this will *not* harm your TouchShield Slide.
8. Use the ButtonPad to navigate to “Icon Uploader” and press the select button
9. Open the FlashTransfer Gadget from Liquidware
10. Do **not** upload to the device, simply select the Data tab and follow steps 3 & 4 from “Using the FlashTransfer Gadget”
11. You will need to reboot your device when done.

Congratulations, Pyxis OS is now fully installed on your MegaPalm device.