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使用Arduino IDE玩转STM32F103C8T6之开发环境搭建与LED闪灯

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2018-05-11

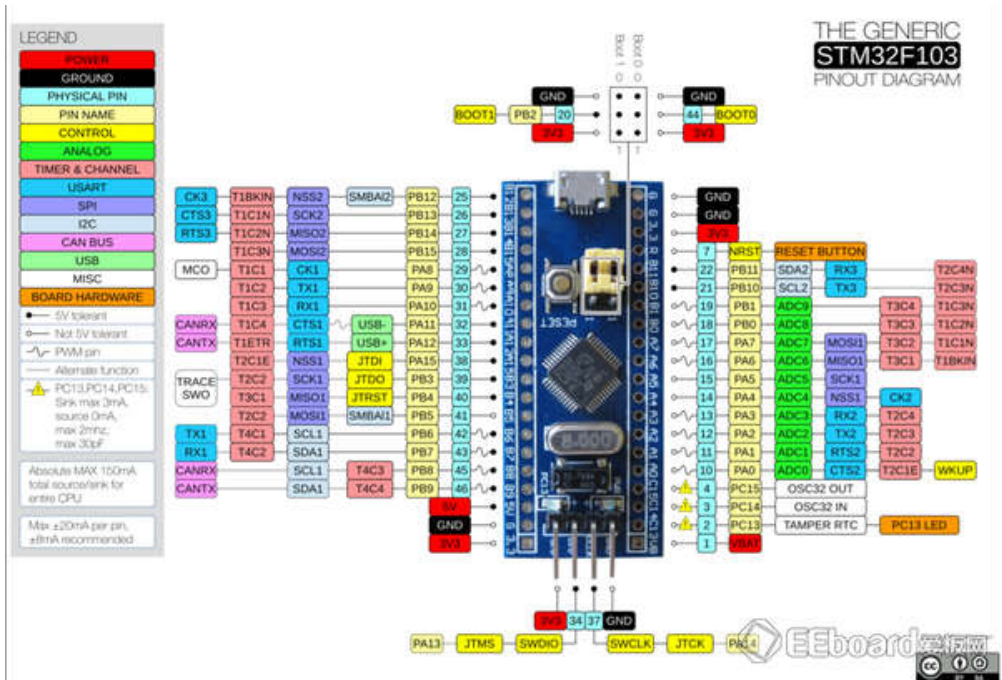
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Arduino (/category/21)

[开发环境搭建 \(/tags/开发环境搭建\)](#)
[stm32f103c8t6 \(/tags/stm32f103c8t6\)](#)
[玩转 \(/tags/玩转\)](#)
[led闪灯 \(/tags/led闪灯\)](#)

STM32F103C8T6最小开发板价格便宜性能超越Arduino UNO，下面介绍一下这款入门开发板的玩法

这款开发板的硬件资源如下



<http://jingyan.eeboard.com/upload/images/Fq21tSgymKzQBr36d9ELWpqHK1oU/20180509172541.png>

其中黄色是BOOT0和BOOT1跳线帽，旁边是重置键，下面介绍使用Arduino IDE烧写程序的方法

烧写前硬件连接方法

下载安装Arduino IDE

<https://www.arduino.cc/en/Main/Software> (<https://www.arduino.cc/en/Main/Software>)

打开Arduino IDE然后按工具-开发板管理器，下载安装Arduino SAM开发板，不安装这个开发板后编译会出现arm-none-eabi-g++错误



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安装后如下图

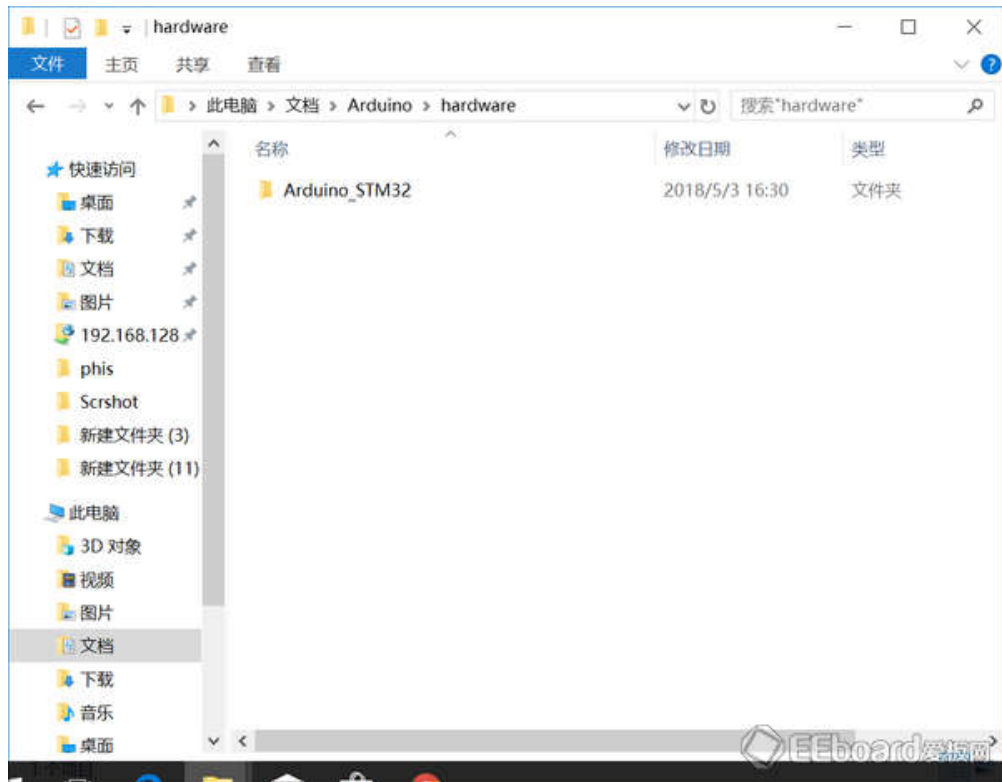


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接着关闭Arduino IDE，下载STM32F103C8T6 ([/tags/stm32f103c8t6](https://github.com/rogerclarkmelbourne/Arduino_STM32/archive/master.zip))用的Arduino开发板库，由于是第三方支持，所以需要手动加入

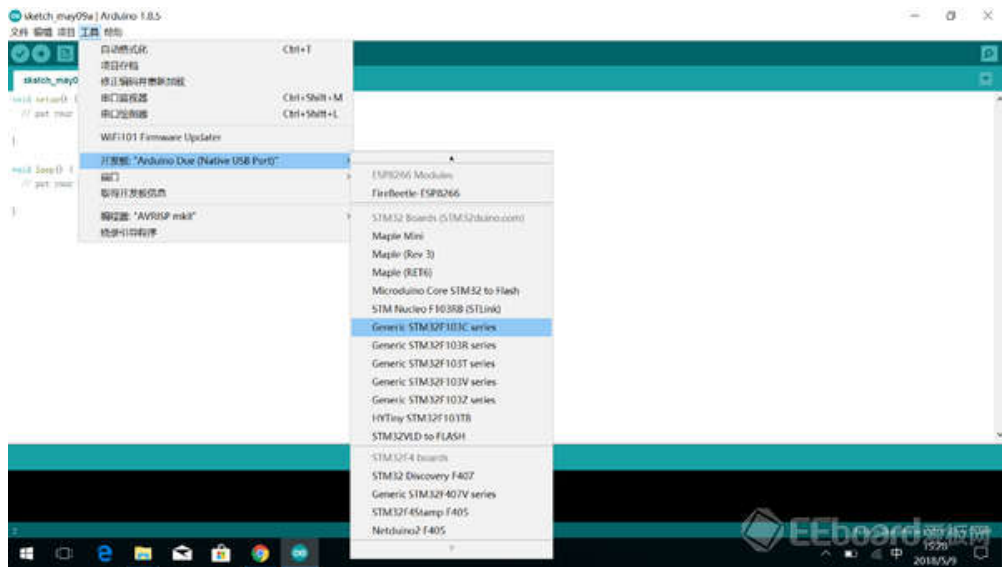
https://github.com/rogerclarkmelbourne/Arduino_STM32/archive/master.zip
(https://github.com/rogerclarkmelbourne/Arduino_STM32/archive/master.zip)、

下载后解压，将文件夹Arduino_STM32_master重命名为Arduino_STM32后复制到C:\Users\用户名\Documents\Arduino\hardware文件夹，如果没有hardware文件夹就新建一个，如下图



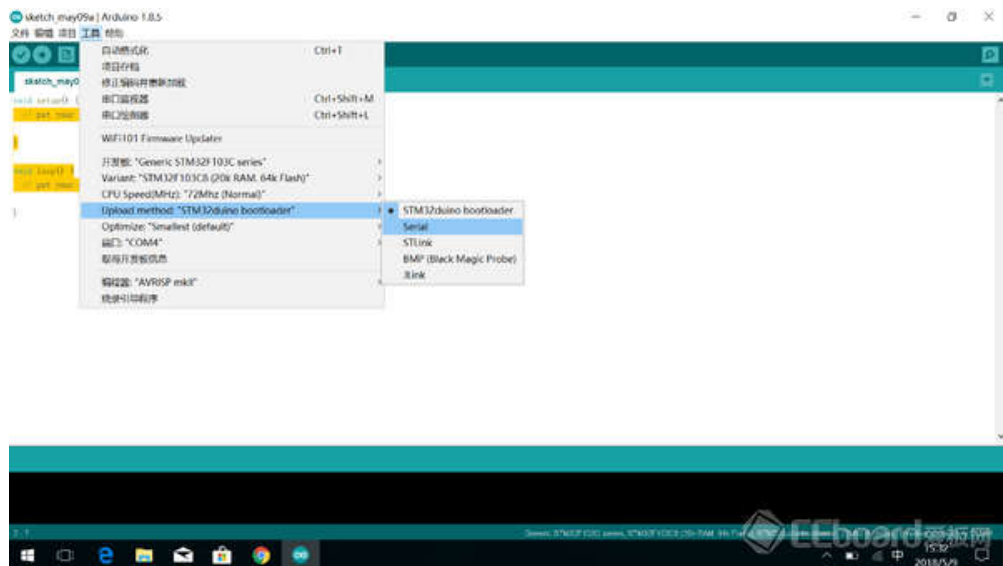
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接着打开Arduino IDE，选择工具-开发板-选择如下开发板



(//jingyan.eeboard.com/upload/images/Fgs1f7-5gxBgxeLWlhd1e1UO2GBY/20180509152837.png)

选择上传方式为串口Serial



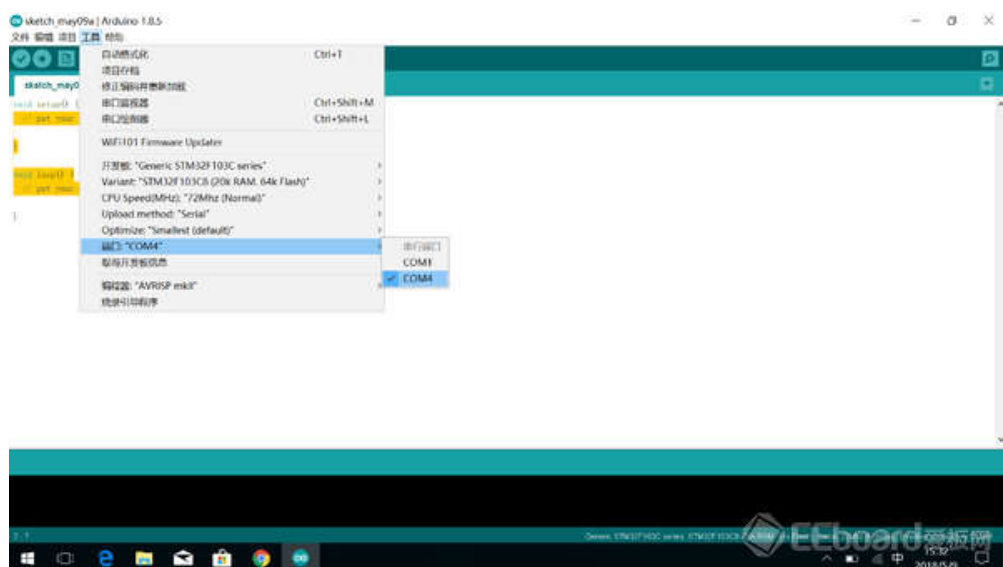
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按设备管理器里面显示的串口线串口号



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设置串口号




(//jingyan.eeboard.com/upload/images/FsI1VqJ9nRN7ctSROJWGlaKysyhM/20180509153248.png)

然后选择示例Blink，按一下开发板上重置键后点上传

烧写完成后断开USB转串口线和电脑USB的连接，将BOOT0短接GND后按一下重置键即可运行程序，将LED的正极接PB1，负极接G，效果如下

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