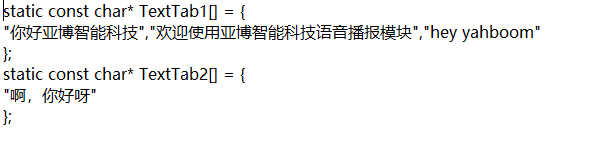
**Broadcast Chinese text**

## Note：Put the Chinese-text form to be broadcast into the project folder. As shown below.

## 



## 1. Purpose

In this lesson, we will learn how to use Arduino UNO drive the speech synthesis module to realize the Chinese broadcast function.

**2. Preparation**

The I2C communication used by speech synthesis module module.

|  |  |
| --- | --- |
| Speech synthesis module | Arduino UNO board |
| SCL | SDA |
| SDA | SCL |
| VCC | 5V |
| GND | GND |

****3. S**peech synthesis **module protocol****

The speech synthesis module is configured and used in accordance with the specified data frame through the I2C communication.

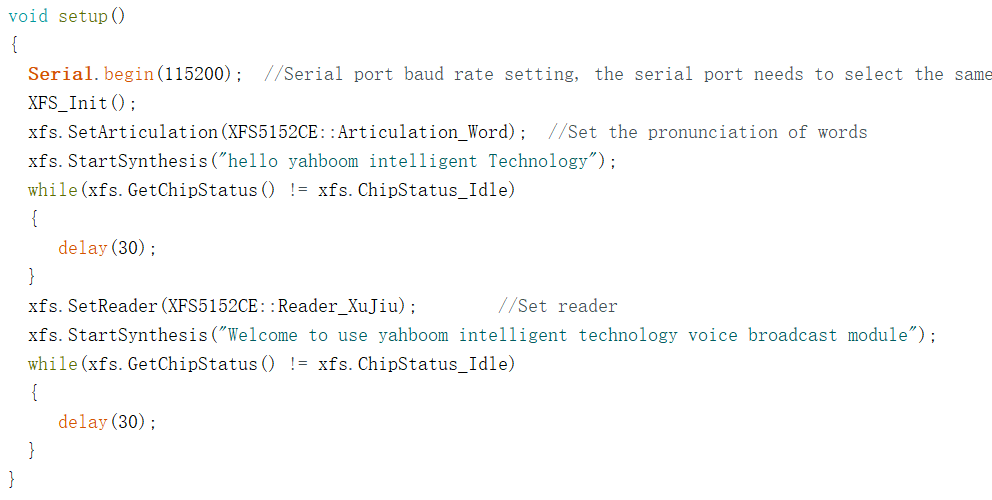
More details, please check [1.Introduction]--[1.2Communication protocol].

**4. Main program analysis**

Set the I2C address of the device, and set the speaker and speech speed.

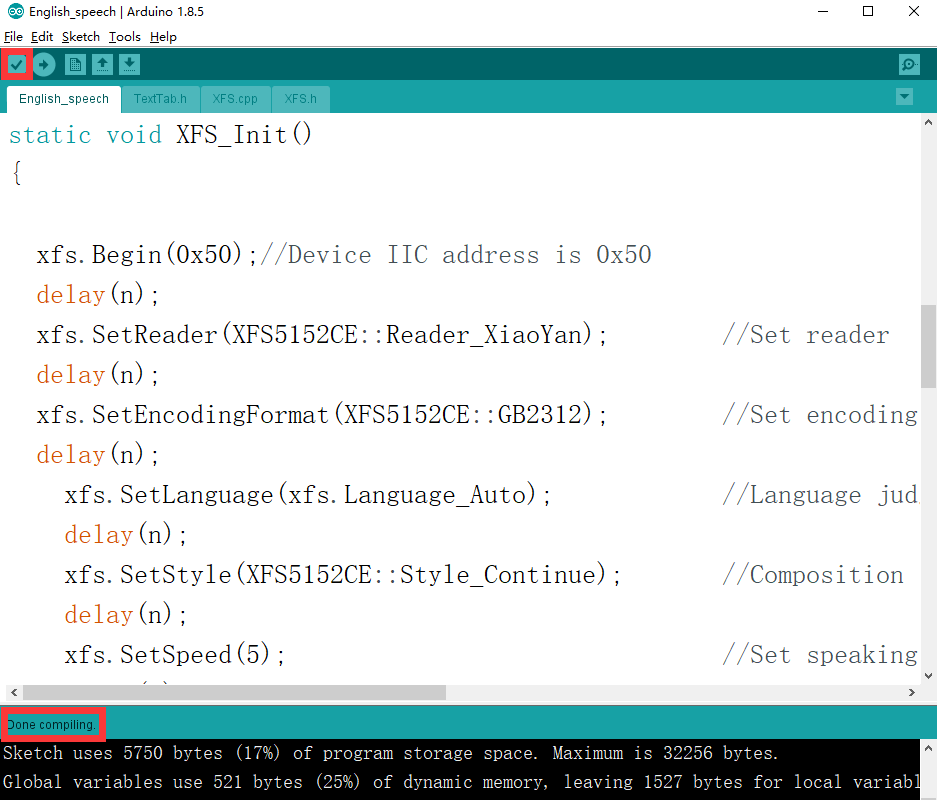
Then, the character strings that define the string array are broadcasted in sequence.

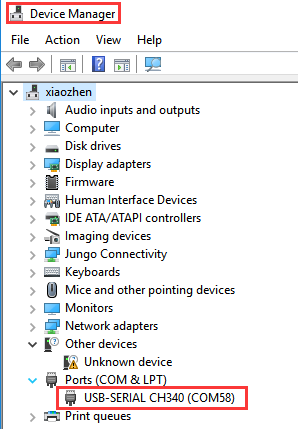
After each voice broadcast, it is necessary to add the detection chip status to be idle before sending the next sentence, otherwise the previous broadcast will be interrupted.

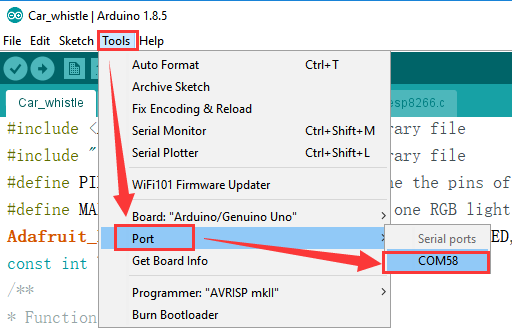


**5. Compiling and downloading code**

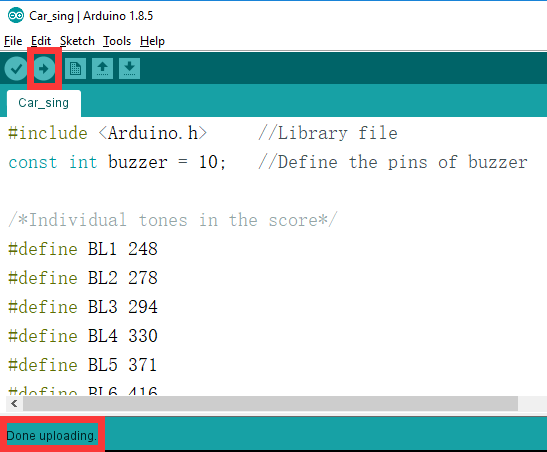
We need to open the .ino file by Arduino IDE software. Then, click“√”under the menu bar to compile the code, and wait for the word "Done compiling " in the lower left corner, as shown in the figure below.

5.2 In the menu bar of Arduino IDE, we need to select 【Tools】---【Port】--- selecting the port that the serial number displayed by the device manager just now, as shown in the figure below.





5.3 After the selection is completed, you need to click “→”under the menu bar to upload the code to the UNO board. When the word “Done uploading” appears in the lower left corner, the code has been successfully uploaded to the UNO board, as shown in the figure below.



**6. **Experimental phenomena****

After the program is downloaded successfully, Xiaoping will broadcast "你好亚博智能科技","欢迎使用亚博智能科技语音播报模块".