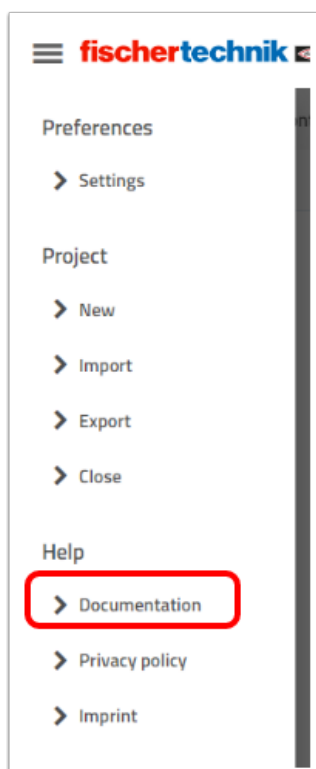


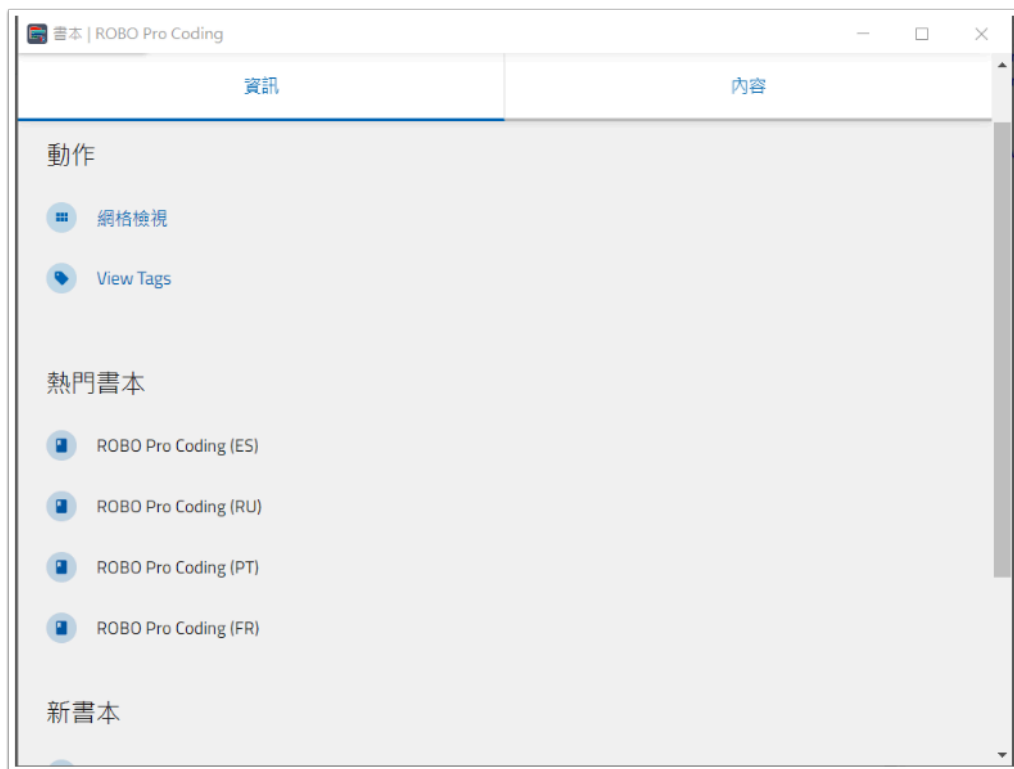
# ROBO Pro Coding Documentation



💡 fischer 除了為用家準備好 sample project / code 外，還有豐富的圖文教學向用家說明每一個編程 Block 的功用及用法，現在會向大家分享可從那裡找到相關資源。



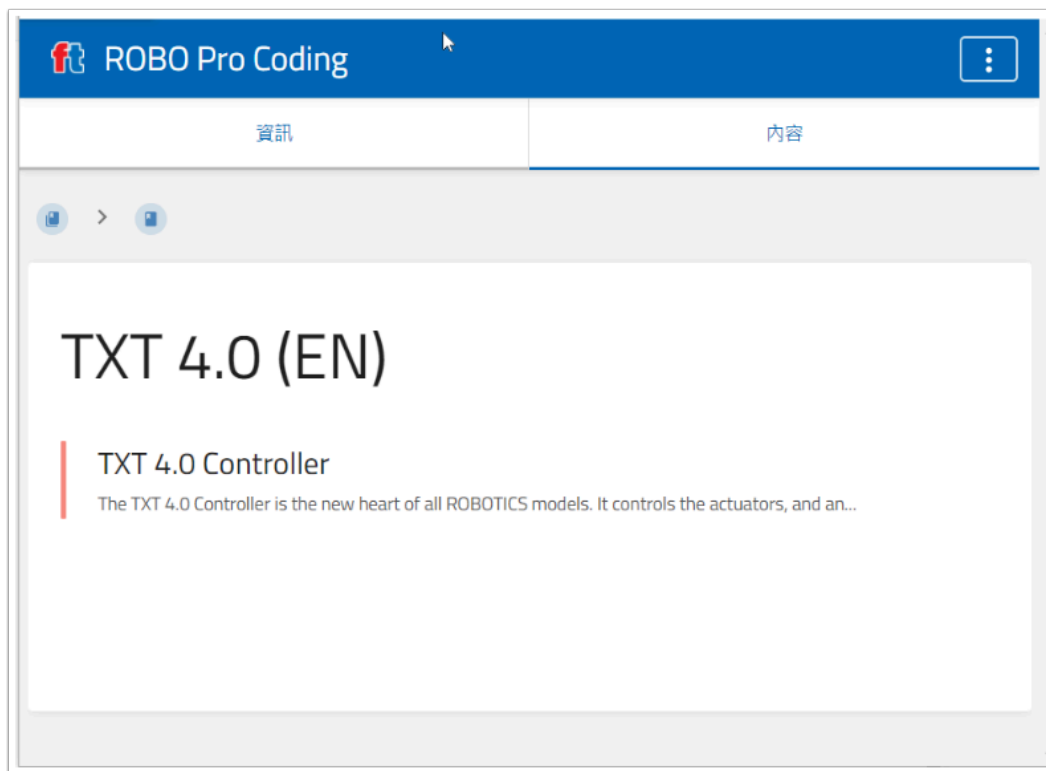
在「Help」選擇「Documentation」



會進入「書本 | ROBO Pro Coding」的頁面，「資訊」跟「內容」只是排版不同裡面的書本都是一樣的。

- 💡 ROBO Pro Coding 提供2本教學書，1本為「ROBO Pro Coding」內容主要為 ROBO Pro 的編程教學，  
另1本為「TXT 4.0」內容主要為 Controller 的接駁/設定教學。

## TXT 4.0 (EN) :



書本後的(EN)代表語言，EN 為英文。打開書本後會看到它的內容，「TXT 4.0 Controller」為章節。

頁面導覽

- Switching the Controller on ...
- Connecting the Controller
  - Connecting via WIFI
  - Connecting via Bluetooth
  - Connecting via USB

書本導覽

- TXT 4.0 (EN)
- TXT 4.0 Controller

# TXT 4.0 Controller

The TXT 4.0 Controller is the new heart of all ROBOTICS models. It controls the [actuators](#), and analyzes information from the [sensors](#).

To do so, the TXT 4.0 Controller has a wide range of ports where you can connect components. The operating manuals for the ROBOTICS models and [fischertechnik.de](#) provide more information about which components can be connected to which ports, and what the functions of the ports are.

You can use the color touch display to conveniently operate the TXT 4.0 Controller.

You define how the controller handles the individual components, and what they should do, by the program you write in the ROBO Pro Coding software.

## Switching the Controller on and off

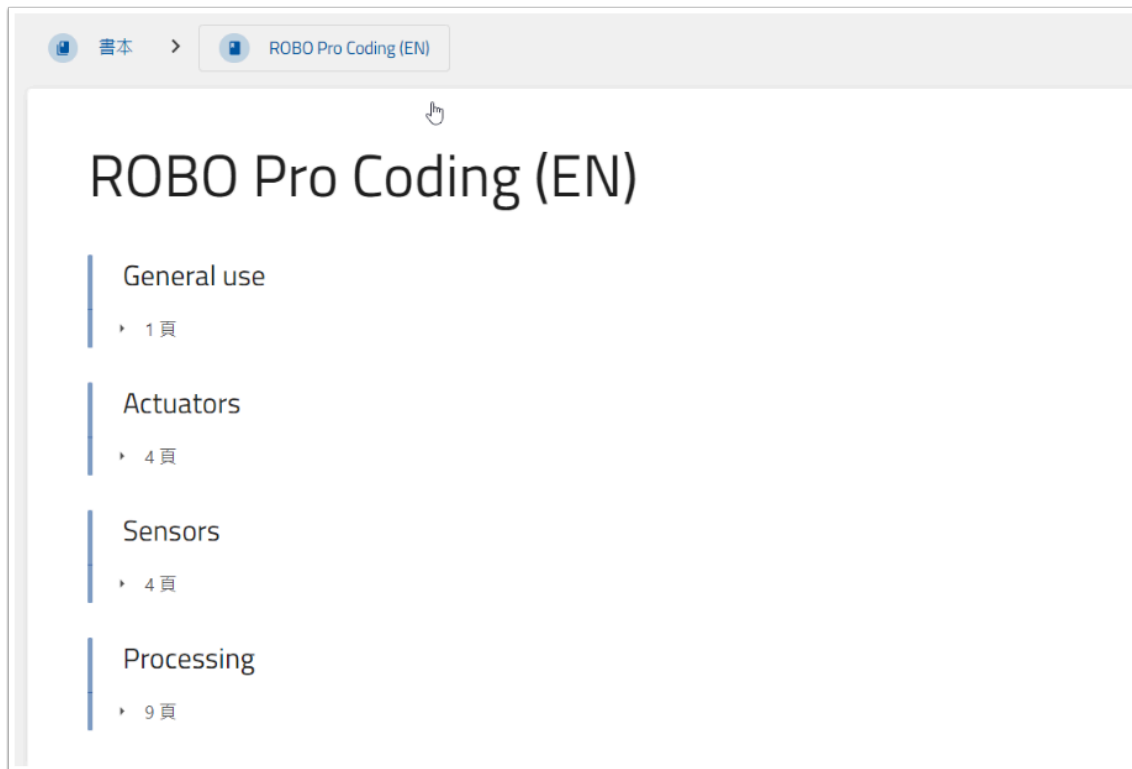
To switch the Controller on, press and hold the On/Off button. Complete the same action to turn the Controller back off. When it is switched on, the LED in the On/Off button will first be illuminated blue, then red, then blue again, and then green during start-up. Once the Controller is ready to function, the LED will be illuminated blue once again.

## Connecting the Controller

To program the Controller, you will need a connection to a computer, tablet, or smartphone on which the ROBO Pro Coding development environment can run. The Controller and device can be connected via WiFi or Bluetooth, or via USB if necessary.

左面是頁面導覽，用家可直接按下想看的標題前往相關內容。

## ROBO Pro Coding 4.0 (EN) :



ROBO Pro Coding 分為4大主題, General Use , Actuators (Output) , Sensors 及 Processing (eg Loop , Variable)

General use

1 頁

General use

Actuators

4 頁

Outputs

Sound

Display

Engine

Sensors

4 頁

Submissions

Counters

I2C

USB

Processing

9 頁

# Processing

Conditions

Conditional instructions are essential for programming. They make it possible to formulate case d...

Logic

Boolean logic is a simple mathematical system with two values: true incorrect Logic blocks...

Loops

The "Controller" area contains blocks that control whether other blocks placed inside them are ex...

Mathematics

The blocks in the mathematics category are used to activate calculations. The results of the calc...

Texts

Texts Examples of texts are: "Thing 1""12. March 2010"" (empty text)Text can contain letters (c...

Lists

As in everyday language, in ROBO Pro Coding a list is an ordered collection of elements, such as ...

Usage

ROBO Coding :

Actuators

Output

Motor

Sound

Display

Sensors

Input

Counter

I2C

USB

Processing

Logic

Loops

Math

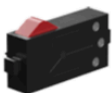
Text

Lists

Util

主題及章節的分類跟 ROBO Coding 的Programming Block 分類完全一樣，用家可輕易找到相關的教學。

## Button



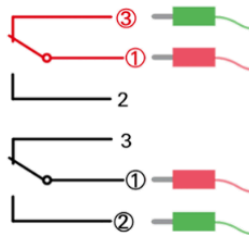
The button is a digital sensor that differentiates "current flowing" from "no current flowing." Whether current is flowing, therefore, depends both on the wiring and on whether the button is pushed. You can use the button in two ways:

As a "normally open contact":  
contacts 1 and 3 are connected.

Button pressed: Current is flowing.  
Button not pressed: No current is flowing

As a "normally closed contact":  
Contacts 1 and 2 are connected.

Button pressed: No current is flowing.  
Button not pressed: Current is flowing.



## Call

You can use **get mini button status** to obtain more information on whether current is flowing through the button or not. If current is flowing, it will return **1**, or **0** if no current is flowing.

## Query

To query whether the button is in a certain status, use the **is button ...** block. You can use the drop down menu (small triangle) to select which status to query. This block can be used as a condition.

💡 每一個 Sensor / Output 都會有詳細的功用介紹, 編程用法, 部份更會提供電線接駁方法。

## 匯出文本：



💡 你可選擇把文本匯出成「網頁檔案」或 PDF 作打印之用！