## ESP8266 飛控板程式積木安裝教學

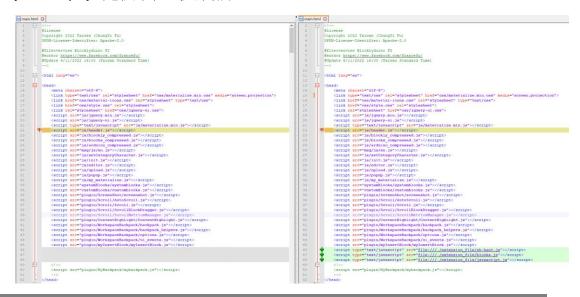
1. 先至

https://sites.google.com/jes.mlc.edu.tw/ljj/linkit7697/%E5%A6%82%E4%BD %95%E5%AE%89%E8%A3%9D%E5%90%89%E5%93%A5%E8%87%AA%E8 %A3%BD%E7%A9%8D%E6%9C%A8 下載並安裝吉哥積木。

2. 將 extension\_file 目錄 copy 至吉哥積木 BlocklyduinoF2 的目錄下。



3. 將 BlocklyduinoF2\package.nw\main.html 打開,如下圖將 extension\_file 引入,其中 zh-hant.js 是字串定義檔、blocks.js 是積木方塊定義檔、javascript.js 是積木程式定義檔。



<script type="text/javascript" src="file:///./extension\_file/zh-hant.js"></script>
<script type="text/javascript" src="file:///./extension\_file/blocks.js"></script>
<script type="text/javascript" src="file:///./extension\_file/javascript.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>

4. 將 BlocklyduinoF2\package.nw\js\init.js 打開,如下圖於 function init()的 var base 結尾處新增積木方塊類別 category\_flightcontroller。

```
| Transparent |
```

,category\_flightcontroller,category\_sep

5. 將 BlocklyduinoF2\package.nw\category\category\_F2.xml 打開,如下圖插入積木方塊定義。

```
</block>
                <bloom> <bloom> <bloom> <bloom> <br/> <bloom> <br/> <b
                <blook type="ligyro_servo_init"></block>
                <blook type="ligyro_udp_init"></block>
                <blook type="v7rc_wifi_tank_command"></block>
                <blook type="set_left_motor">
      <value name="left_motor_throttle">
           <blook type="math_number">
                 <field name="NUM">0</field>
           </block>
      </value>
</block>
                 <bl><block type="set_right_motor"></br>
      <value name="right_motor_throttle">
           <blook type="math_number">
                 <field name="NUM">0</field>
           </block>
      </value>
</block>
                 <blook type="set_rudder">
      <value name="left_rudder_angle">
           <blook type="math_number">
                 <field name="NUM">0</field>
           </block>
      </value>
</block>
                 <blook type="set_elevator">
      <value name="right_elevator_angle">
           <blook type="math_number">
                 <field name="NUM">0</field>
           </block>
      </value>
</block>
                <blook<br/>type="v7rc ch1"></block>
<blook type="v7rc_ch2"></block>
                 <blook type="v7rc_ch3"></block>
<blook<br/>type="v7rc ch4"></block>
                 <blook type="ligyro_pid_ctrl">
```

```
<value name="desire_throttle">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
    <value name="desire_yaw">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
    <value name="wright_yaw">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
    <value name="yaw_p">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
    <value name="yaw_i">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
    <value name="yaw_d">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
</block>
<blook type="ligyro_hover_pid_ctrl">
    <value name="desire_throttle">
        <blook type="math_number">
             <field name="NUM">0</field>
        </block>
    </value>
    <value name="desire_forward_backward">
```

```
<blook type="math_number">
                    <field name="NUM">0</field>
               </block>
           </value>
           <value name="desire_direction">
               <blook type="math_number">
                    <field name="NUM">0</field>
               </block>
           </value>
           <value name="wright_yaw">
               <blook type="math_number">
                    <field name="NUM">0</field>
               </block>
           </value>
           <value name="yaw_p">
               <blook type="math_number">
                    <field name="NUM">0</field>
               </block>
           </value>
           <value name="yaw_i">
               <blook type="math_number">
                    <field name="NUM">0</field>
               </block>
           </value>
           <value name="yaw_d">
               <blook type="math_number">
                    <field name="NUM">0</field>
               </block>
           </value>
       </block>
</category>
<sep id="category_sep"></sep>
```

6. 點擊 BlocklyduinoF2 目錄下的 BlocklyDuino.exe 執行檔,即可開始編寫 ESP8266 飛控板程式。

