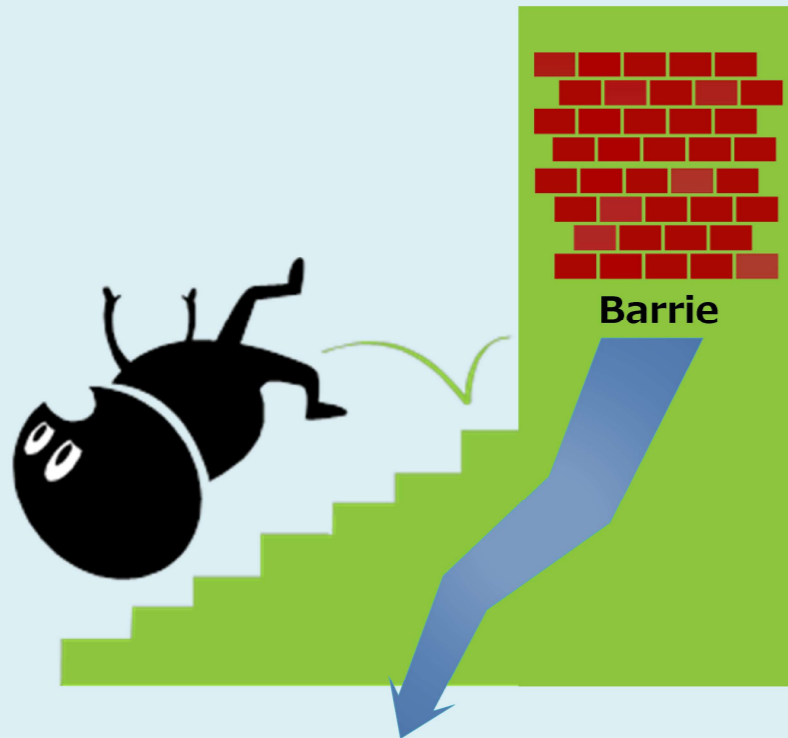


Before



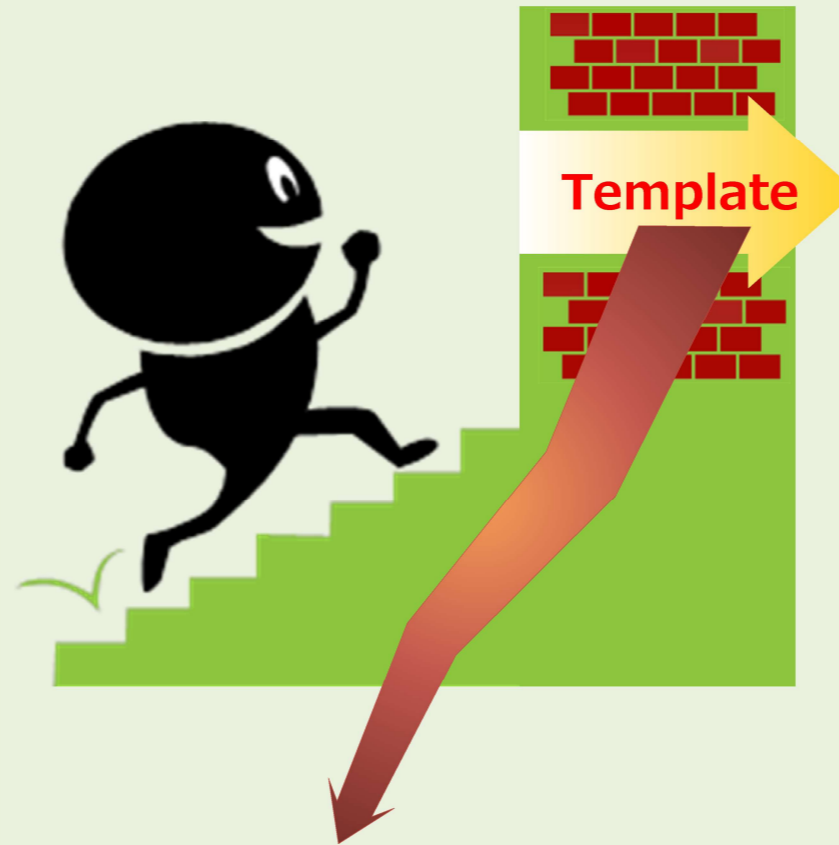
- Sample code cannot be used in practice.
- Need a simple, highly scalable development environment.

Template Benefits

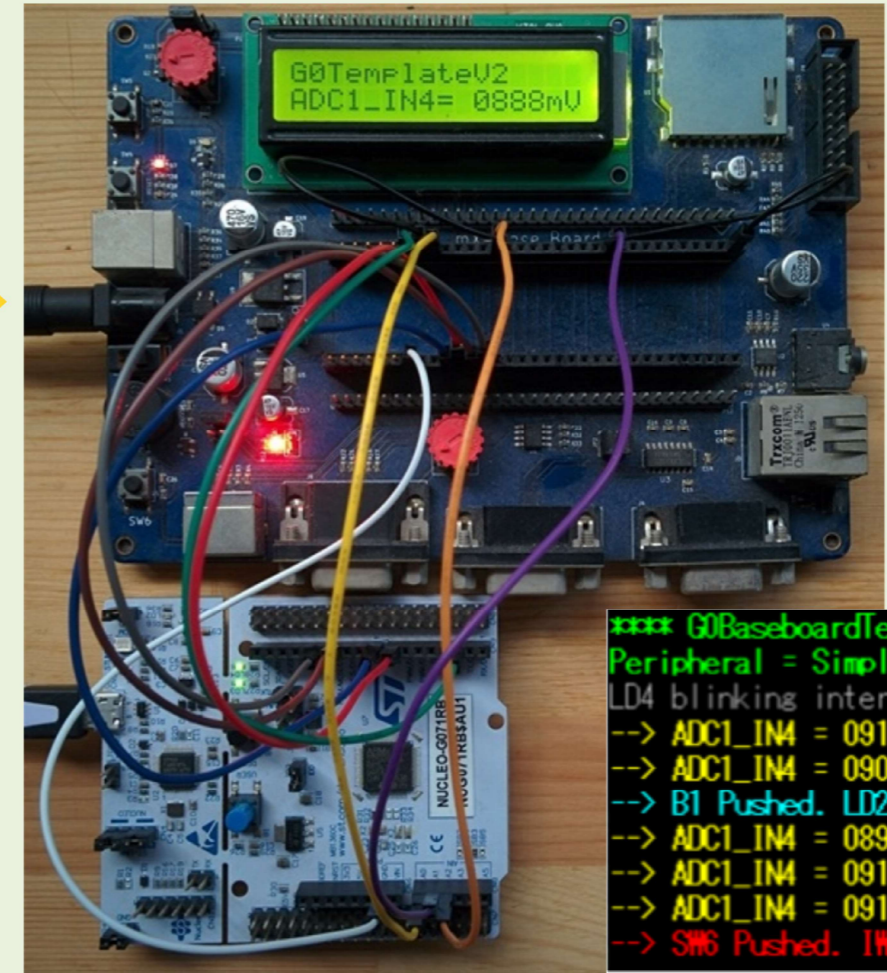
- Easy to learn STM32G0x.
- Immediate program directly connected to practical work.
- Early STM32G0x application development using sample code.

* Easy to use/divert multiple sample codes

After



- Easy to use and reusable sample code direct practice template.
- Low cost, easy and highly expandable development environment.
- Anyone can easily pass through Barrier.



```

*** G0BaseboardTemplateV2 wi
Peripheral = SimpleTemplate +
LD4 blinking interval 1 = 40ms
--> ADC1_IN4 = 0910 mV.
--> ADC1_IN4 = 0907 mV.
--> B1 Pushed. LD2 change.
--> ADC1_IN4 = 0895 mV.
--> ADC1_IN4 = 0916 mV.
--> ADC1_IN4 = 0910 mV.
--> SW6 Pushed. IWDG expire!

```

Virtual COM

Baseboard Template = Simple + ADC + LCD + Virtual COM

Simple Template = LED + SW

STM32G0x Template

HAL API

STM32CubeMX generated HAL APIs

STM32G0x

Template + TOC Contents = US\$10

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Features of STM32G0x Template

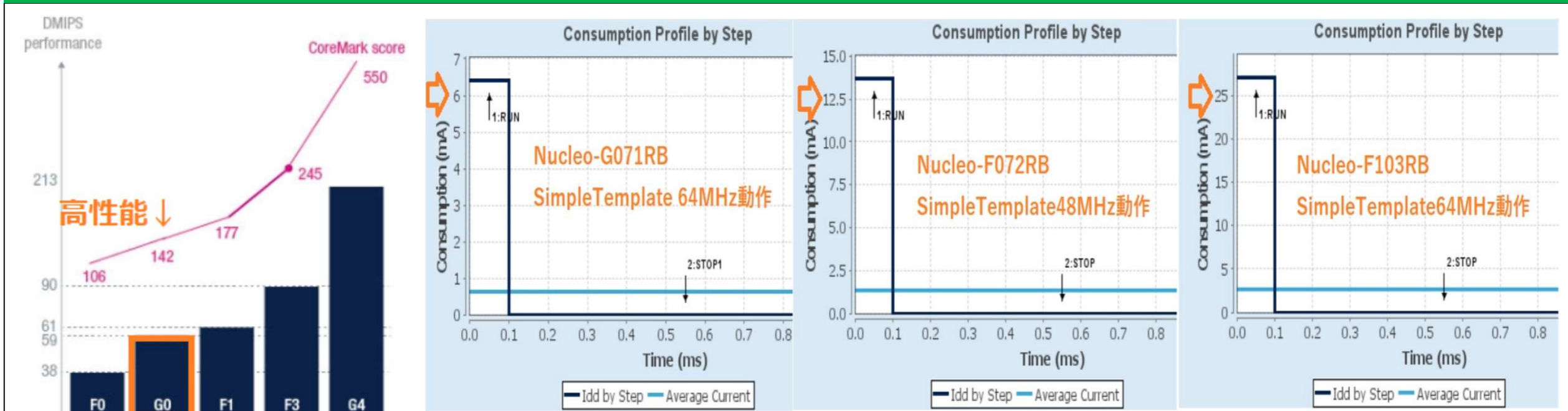
- Time-division multitasking startup
Startup timing: 1ms/4ms/40ms/500ms/1s (Timing can be changed easily)
- Low power consumption: Sleep startup when no processing
- Template using STM32CubeMX generated HAL API.
- The template code easy to change when MCU performance is insufficient, and ideal for prototype development.
- Simple template and baseboard template attached to template application examples.
- Easy to add/remove functions to/from both application examples.
- Easy to learn STM32G0x with abundant sources with Japanese comments and this materials
- Early application development and evaluation possible with templates directly connected to practical work

Template specification

Overview	<p>Simple template: STM32G071RB standalone operation</p> <ul style="list-style-type: none"> •Green LED output: 40ms/500ms/1s flashing (cycle change by blue SW push or console key input) •Blue SW input: SW push notification via Virtual COM Port (anti-chattering by software) •VCP input/output : Console initial message output, key input changes green LED blinking cycle <p>Baseboard template: Works with STM32G071RB + Baseboard. In addition to simple template operation, in parallel,</p> <ul style="list-style-type: none"> •Baseboard potentiometer ADC value output •Watch dog timer (IWDG) expiry operation test by pushing Baseboard EXT_SW (SW6).
Software	STM32CubeIDE v1.3.1 , STM32CubeMX v5.6.1、 FW_G0 v.1.3.0 (June 2020)
Hardware	Evaluation Board : STM32G071RB (NUCLEO-G071RB、Cortex-M0+) Function addition Baseboard : mbed-Xpresso Baseboard

Template price & copyright **US\$10 (tax included)**
Copyright belongs to purchaser

STM32G0x has high performance & low power than F0/F1



*Compare Consumption Profile of Tools attached to CubeMx with simple template G0/F0/F1

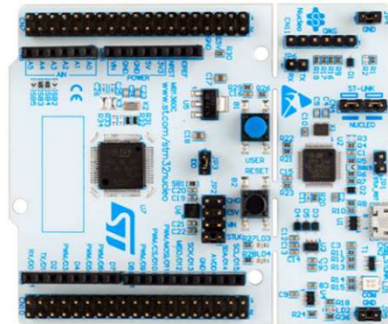
Notes

- Although this information and template software were created accurately and carefully, we do not guarantee that there are no Errors
- In the unlikely event that the customer suffers damages due to incorrect information or template software, we will not be held responsible for it.

T O C

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Evaluation Board

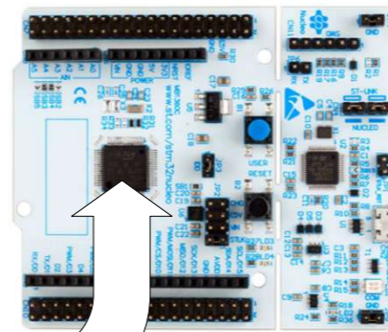


Nucleo-G071RB

Template Projects

SimpleTemplate
(STM32G071RB standalone operation)

Simple emplate



Virtual COM Port:
Low Power UART 115200bps
with G0 feature

Project operation

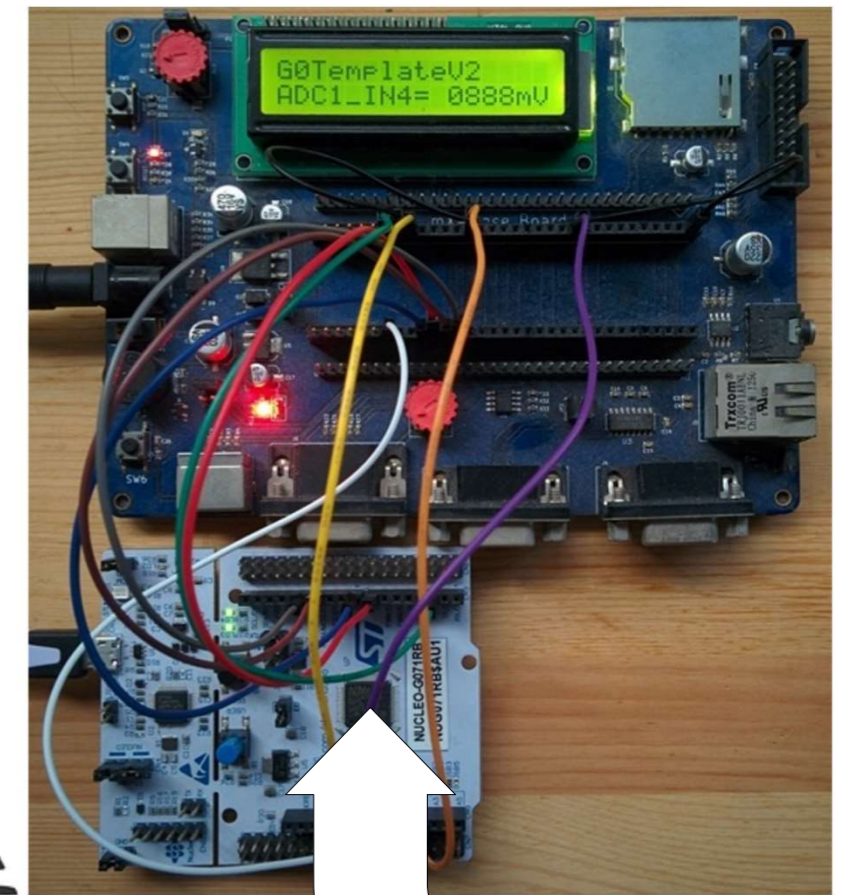
```
COM5:115200bps - Tera Term VT
ファイル(F) 編集(E) 設定(S) コントロール(O) ウィンドウ(W) ヘルプ(H)
**** G0SimpleTemplateV2 with G0 V1.3.0 HAL API ****
Peripheral = LD4 + SW + TIM7 + LPUART1/115200bps:VCP + SLEEP.
LD4 blinking interval 1 = 40ms, 2 = 500ms, 3 = 1s.
--> B1 Pushed. LD2 change.
--> B1 Pushed. LD2 change.
543212--> B1 Pushed. LD2 change.
--> B1 Pushed. LD2 change.
```

STM32G071RB
Cortex-M0+/64MHz

STM32G0x
Template

BaseboardTemplate
(STM32G071RB + Baseboard operation)

```
COM5:115200bps - Tera Term VT
ファイル(F) 編集(E) 設定(S) コントロール(O) ウィンドウ(W) ヘルプ(H)
**** G0BaseboardTemplateV2 with G0 V1.3.0 HAL API ****
Peripheral = SimpleTemplate + SW6 + LCD + ADC + IWDG.
LD4 blinking interval 1 = 40ms, 2 = 500ms, 3 = 1s.
--> ADC1_IN4 = 0910 mV.
--> ADC1_IN4 = 0907 mV.
--> B1 Pushed. LD2 change.
--> ADC1_IN4 = 0895 mV.
--> ADC1_IN4 = 0916 mV.
--> ADC1_IN4 = 0910 mV.
--> SW6 Pushed. IWDG expire!
```



Baseboard Template

Template application example with multiple sample code suitable for starting prototype development.

- Abundant Japanese comments and tips
- 2 projects for evaluation board
- Template example developed with HAL API
- ➔ Smooth and fast learning
- ➔ Easy to start prototyping
- ➔ Easy to use other STM32 MCU

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