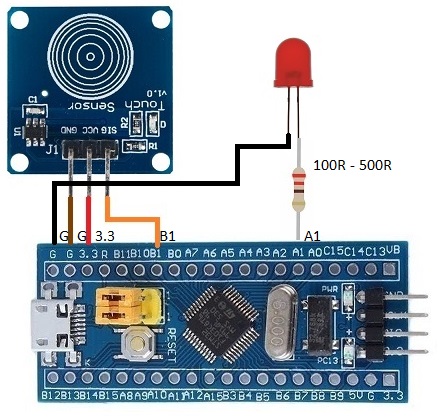
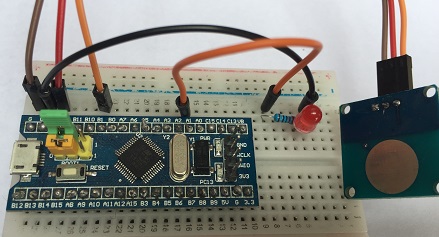
Touch Sensor interrupt with Blue Pill using STM32CubeIDE

**Prerequisites**

This project assumes you have already installed STM32CubeIDE. You need to have previously done a basic blink sketch with blue-pill using STM32CubeIDE. I have made a complete video from installing STM32CubeIDE to LED blink program. You can watch it by clicking this link. <https://www.youtube.com/watch?v=kXg467nVd_A>

**Wiring Diagram**





**STM32CubeIDE Settings**

Set PA1 to GPIO\_Output

Set PB1 to GPIO\_EXTI1

Click NVIC → EXTI line1 interrupt → Enabled (Tick)

**Additional code on top of STM32CubeIDE generated code**

/\* USER CODE BEGIN 4 \*/

**void** HAL\_GPIO\_EXTI\_Callback(uint16\_t GPIO\_Pin)

{

**if** (GPIO\_Pin == GPIO\_PIN\_1)

{

HAL\_GPIO\_TogglePin(GPIOA, GPIO\_PIN\_1);

}

}

/\* USER CODE END 4 \*/