

microBlock IDE เครื่องมือเขียนโปรแกรมแบบบล็อก

chapter 0



เขียนโปรแกรมแบบบล็อก

- - แล้วอัพโหลดโปรแกรมลงบอร์ด Microcontroller เพื่อให้บอร์ด Microcontroller ทำงานตามโปรแกรมที่ได้เขียนไว้
- ้ การเขียนโปรแกรมแบบบล็อก คือ การเขียนโปรแกรมสั่งงานโดยลากบล็อกมาต่อกันตามลำดับ ้การเขียนโปรแกรมด้วยการต่อบล็อกมีข้อดีประการสำคัญคือ ช่วยให้เน้นขบวนการคิดแก้ปัญหา (Algorithm) มากกว่าการใช้เวลาส่วนใหญ่ไปกับการแก้ปัญหาไวยากรณ์ (Syntax) ผิดพลาด







microBlock IDE คือ เครื่องมือที่ใช้เขียนโปรแกรมบอร์ด Microcontroller รองรับการเขียนโปรแกรมสั่งงานบอร์ด ได้ 2 แบบ ้ได้แก่ การเขียนโปรแกรมแบบบล็อก และเขียนโปรแกรมแบบโค้ดภาษา Python

้ โปรแกรม microBlock IDE เมื่อเขียนโปรแกรมด้วยบล็อกแล้ว บล็อกจะถูกแปลงเป็น ้ โค้ด Python ทันที ผู้เรียนสามารถดูโค้ดโปรแกรม Python ได้ตลอดเวลา ช่วยให้ผู้เรียนเข้าใจว่าบล็อกจะแปลงเป็นโค้ดโปรแกรม Python ได้อย่างไร ้และหากต้องการแก้ไขโค้ดโปรแกรม Python ที่ได้จากการแปลงบล็อกก็สามารถทำได้ (แต่หลังจากยืนยันจะแก้ไขโค้ดโปรแกรม Python แล้ว จะแปลงโค้ดกลับเป็นบล็อกไม่ได้แล้ว)

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ใช้งานแบบติดตั้งโปรแกรม บนคอมพิวเตอร์







ค้นหาคำว่า microBlock

หรือเว็บไซต์ <u>https://microblock.app/</u>



microBlock IDE V2.9.0 ล่าสุด

เผยแพร่เมื่อ 5 ตุลาคม 2566 โดย microBlock

- <u>ดาวน์โหลดไฟล์ติดตั้งโปรแกรมสำหรับ Windows 64 บิต</u>
- ดาวนเทลดเบรแกรมสาทรบ windows 04 บต (เมตองตดตง)
- ดาวน์โหลดไฟล์ติดตั้งสำหรับ Windows 32 บิต
- ดาวน์โหลดโปรแกรมสำหรับ Windows 32 บิต (ไม่ต้องติดตั้ง)
- ดาวน์โหลดโปรแกรมสำหรับ macOS
- ดาวน์โหลดโปรแกรมสำหรับ Ubuntu 64 บิต (ไม่ต้องติดตั้ง)





File Edit View Board Window Help

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Board: KidBright32 V1.3 & V1.4 Port: DISCONNECT Level: Beginner Mode: Real Devices

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File Edit View Board Window Help



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File Edit View Board Window Help

คลิกเลือก Extension ■ microBlock Block Extension Search 1.0.0 📢 • ********** 1.0.0 📢 Basic 3-Axis Digital Compass MAX30102 Heart Rate & SPO2 sensor 🛃 Install 🛃 Install Control heart rate T-ZX-**M**2 ทำการ Install Extension ของ Beetle car Operators E=mc² Sensor *>Edit I2C<* 🛃 Install Variables よ Install microDriver OLED micro Block ArtronShop INEX Function 1.0.0 🖓 1.0.0 🖓 OpenBit Driver Expansion Display text, number, image on OLED display Board 去 Install 🛓 Install

myProject1

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File Edit View Board Window Help

microBlock Block Code Motor Control switch S1 v get value + - × - - × move forward v pwm 180 Operators move forward v pwm 180 for 0 sec E=mc² จะปรากฎหน้าต่างและคำสั่ง motor left move forward at speed 200 . Variables พร้อมใช้งาน Beetle Car stopmotor Function Ultrasonic 2 ultrasonic read Advanced 🚺 ultrasonic 🔁 🔽 0 centimeter Switch beetlecar <u>ب</u> D 6 ß myProject1 New project myProject1 at 15:01:09

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Board: ESP32 Dev Board Port: DISCONNECT Level: Beginner Mode: Real Devices



ใช้งานแบบไม่ติดตั้งโปรแกรม







เปิดเว็บไซต์ <u>www.up-skill.asia</u>







New project myProject1 at 10:20:39



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