Passerelles numériques

A Gateway for Life

Physical Computing with *Device Simulator Express*

TITLE

01 What is Device Simulator Express (DSE)?

02 Devices Supported by DSE

03 Prerequisites

04 Integration of VSE to VS Code

What is Device Simulator Express (DSE)?

It is a Microsoft Garage project, allows you to code microcontrollers without the hardware on hand!*

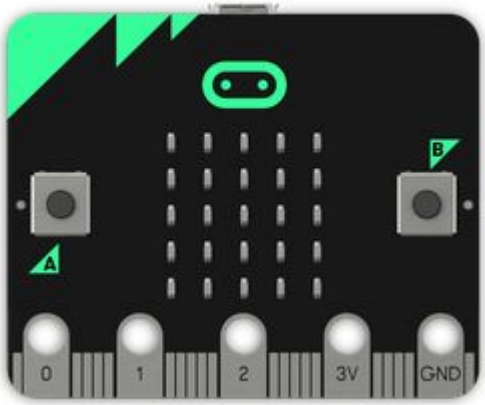
Test and debug your code on the device simulator and see the same result when you plug in your actual microcontroller.*

*https://marketplace.visualstudio.com/items?itemName=ms-python.devicesimulatorexpress

Devices Supported by DSE

- Adafruit Circuit Playground Express (CPX)

- BBC micro:bit



- Adafruit CLUE

Adafruit Circuit Playground Express (CPX) Simulator

Included in the simulator

- Green LED
- Red LED
- Push Buttons A and B
- Slider Switch
- Speaker: Play .wav file
- 10 NeoPixels
- Light sensor
- Motion sensors
- Acceleration detection
- Device shake detection
- Temperature sensor
- 7 Capacitive Touch sensors

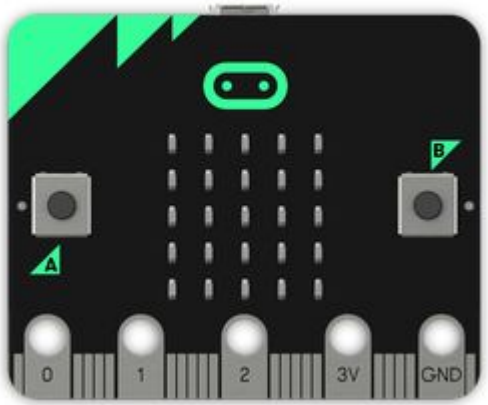
- Adafruit Circuit Playground Express (CPX)

BBC micro:bit Simulator

Included in the simulator

- 25 LEDs
- Push Buttons A and B
- Light sensor
- Motion sensors
- Acceleration detection including gesture detection
- Temperature sensor

- BBC micro:bit



Adafruit CLUE Simulator

Included in the simulator

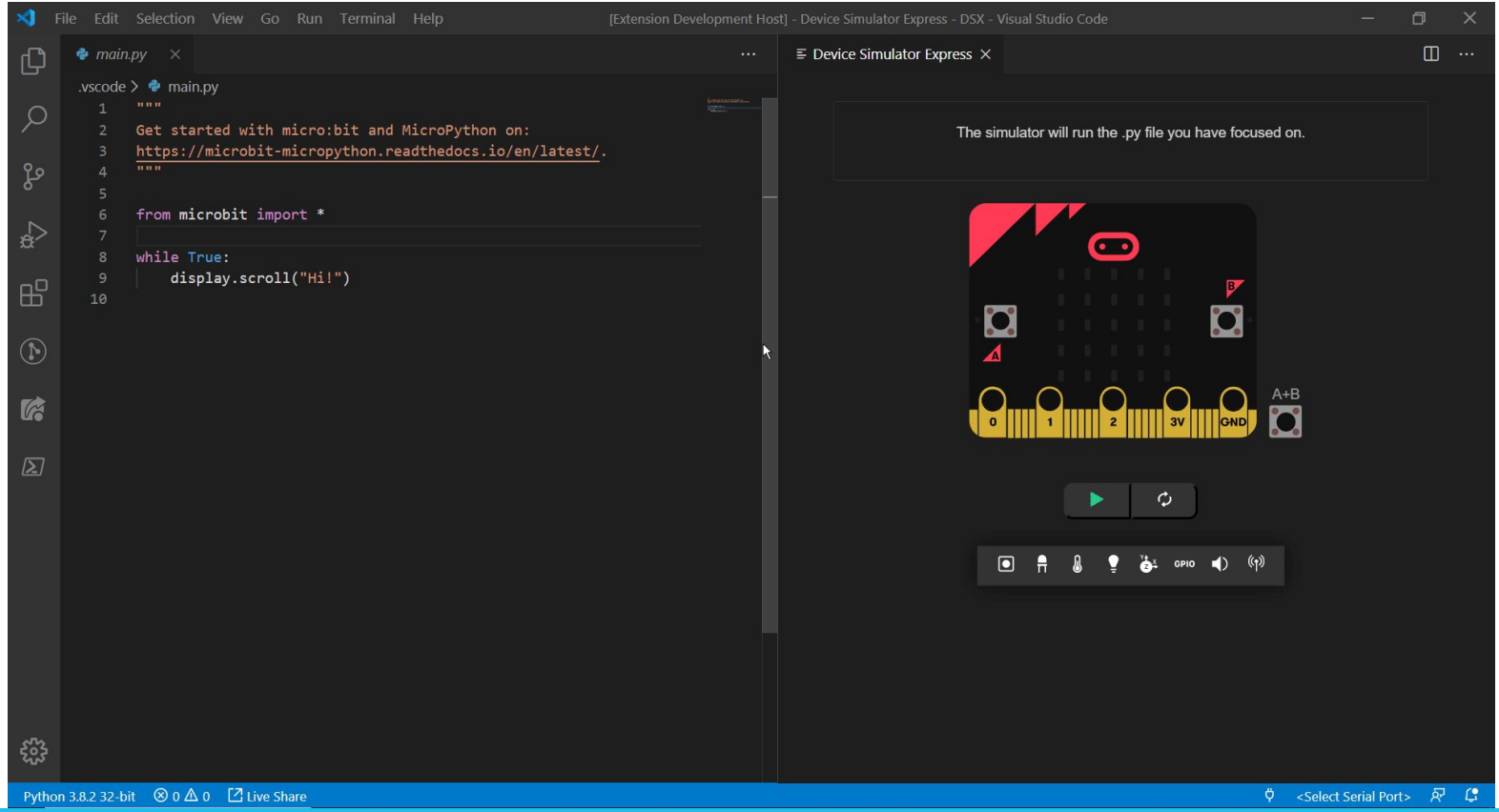
- 25 LEDs
- Push Buttons A and B
- Light sensor
- Motion sensors
- Acceleration detection including gesture detection
- Temperature sensor

- Adafruit CLUE

Prerequisites

- ***Visual Studio Code***
- ***Python 3.7+***: Make sure you've added Python and pip to your PATH in your environment variables.
- ***Python VS Code extension***: This will be installed automatically from the marketplace when you install Device Simulator Express.

Integration of DSE to Visual Studio Code



Thank you !

www.passerellesnumeriques.org

TOOL BOX - 1

Testimonial

General Training

Employability

Palm Tree

Checkbox

Exclamation

Arrow

Technical Training

Graduation

Employment

Idea

Time

Arrow

Arrow

Selection

Information

Job Search

Laptop

Email

LinkedIn

Facebook

Partnership

Education

Finance

Calendar

Twitter

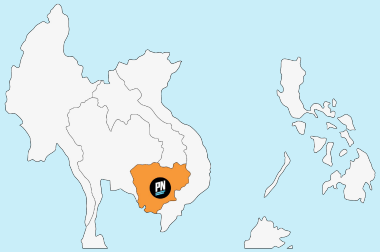
Youtube

Website

TOOL BOX - 2

COUNTRIES

Cambodia

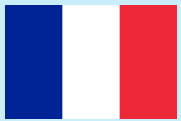


Philippines

Vietnam

Singapore

France



Sustainable Development Goals

SUSTAINABLE DEVELOPMENT GOALS