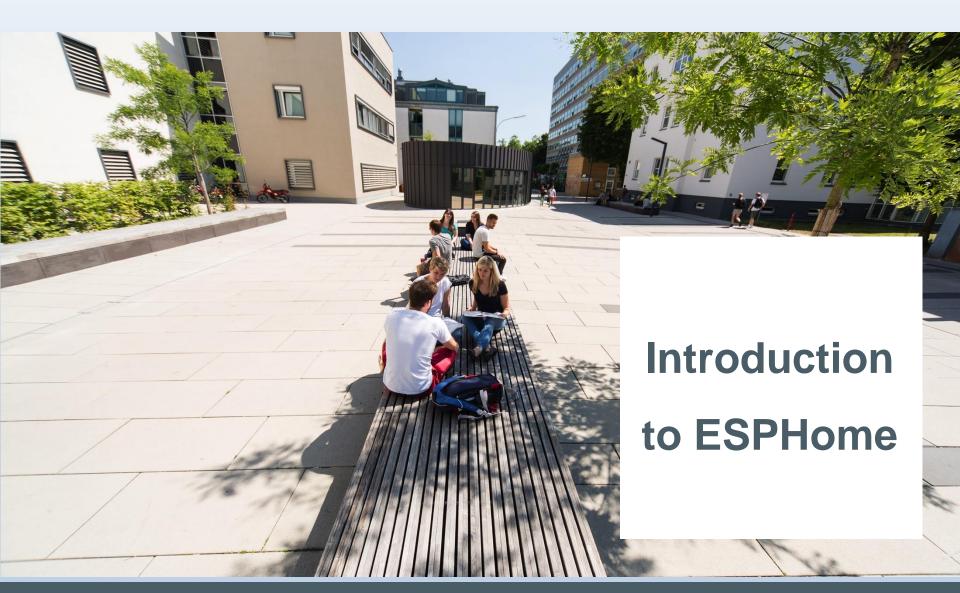


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Agenda

- Overview of ESPHome
- Advantage of using ESPHome
- Getting started With ESPHome
- Useful resources

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Overview of ESPHome

There are several options available for Microcontroller like ESP32, and ESP8266 to create your firmware and flash your device with your application.



- 1. Arduino IDE
- 2. ESPHome
- 3. PlatformIO

To decide which platform you require you need to consider your application like what purpose you want to solve

Source.-https://platformio.org/, https://esphome.io/#, https:





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Advantage of using ESPHome

- Purpose: ESPHome is designed to simplify the process and allow users to integrate them
 easily into the Home Assistant home automation platform.
- Integration with Home Assistant: One of the primary features of ESPHome is its seamless integration with Home Assistant, an open-source home automation platform.
- Configuration Using YAML: ESPHome uses YAML (Yet Another Markup Language) for configuration, making it accessible to users without extensive programming experience.
- Over-the-Air (OTA) Updates: ESPHome supports Over-the-Air updates, allowing users to update the firmware on their devices remotely without the need for physical access to the devices.
- Flexibility: ESPHome can be used not only with a Home Assistant but also independently.
 Users can deploy ESPHome firmware on devices for various IoT applications beyond home automation.
- Application: It can also connect with Text sensors like MQTT subscriber, Modbus, and Many more

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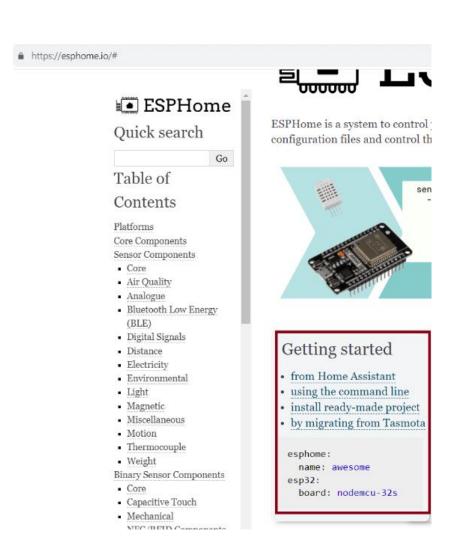


Getting started With ESPHome

 You can use the ESPHome feature in several ways

> Using a Command line From the Home assistant Ready-Made Projects

Source: https://esphome.io/#





Useful resources

There are several resources available and I am listing down the resources which I have used.

- Install the ESPHome as an addon in the home assistant Source: https://esphome.io/guides/getting_started_hassio.html
- Install the ESPHome as a Commandline
 Source: https://esphome.io/guides/getting_started_command_line
- Video I used for a method of installation of ESPHome Source: https://www.youtube.com/watch?v=mCs0fa7Gr9U
- For Home assistant

Source: https://www.youtube.com/watch?v=czhWTAH7YEA

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