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There are various ESP32 development platforms available. You can choose from Espruno, Mongoose OS, MicroPython, or Espressif SDK, each offering unique features. However, the Arduino IDE remains a popular choice for beginners due to its user-friendly interface and widespread familiarity among hobbyists and developers. To use the Arduino IDE with ESP32, ensure you have the latest version installed on your computer. You may also need to install a USB-to-serial bridge driver depending on the specific ESP32 board's hardware. This includes identifying and installing the correct driver for your board's USB-to-serial converter chip, such as CP2102 or CH340G. After installing these components, you can follow steps in the Arduino IDE to select the correct board and port settings. Once set up, running a basic sketch like WiFiScan from within the IDE is a good way to get started with ESP32 development using the Arduino platform. To troubleshoot connection issues with your ESP32 board, follow these steps if you encounter an error message indicating that it's not in flashing mode. First, press and hold the BOOT button on your ESP32 device while clicking the Upload button in the Arduino IDE to initiate code upload. Hold the BOOT button until you see "Writing at 0x00001000..." appear in the log after the "Connecting..." message, then release the button. This sequence should allow successful uploading of your sketch. Once uploaded, restart your ESP32 by pressing its EN button. Note that for future uploads, repeat this process every time to ensure your board is in the correct mode for receiving new code. The official Arduino reference lists supported IDEs for Windows, Linux, and macOS, including ESP32 support integration. Installing guides are available for detailed installation instructions on how to install the Arduino ESP32 support. As an open community-driven project, users can seek help in designated community channels. Before opening a new issue, it's recommended to search for similar reported issues to avoid duplication and noise in GitHub Issues reporting. A troubleshooting guide is also provided to address common user-reported issues efficiently. For creating new issues or feature requests, users are directed to utilize the respective templates available on the platform.

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