

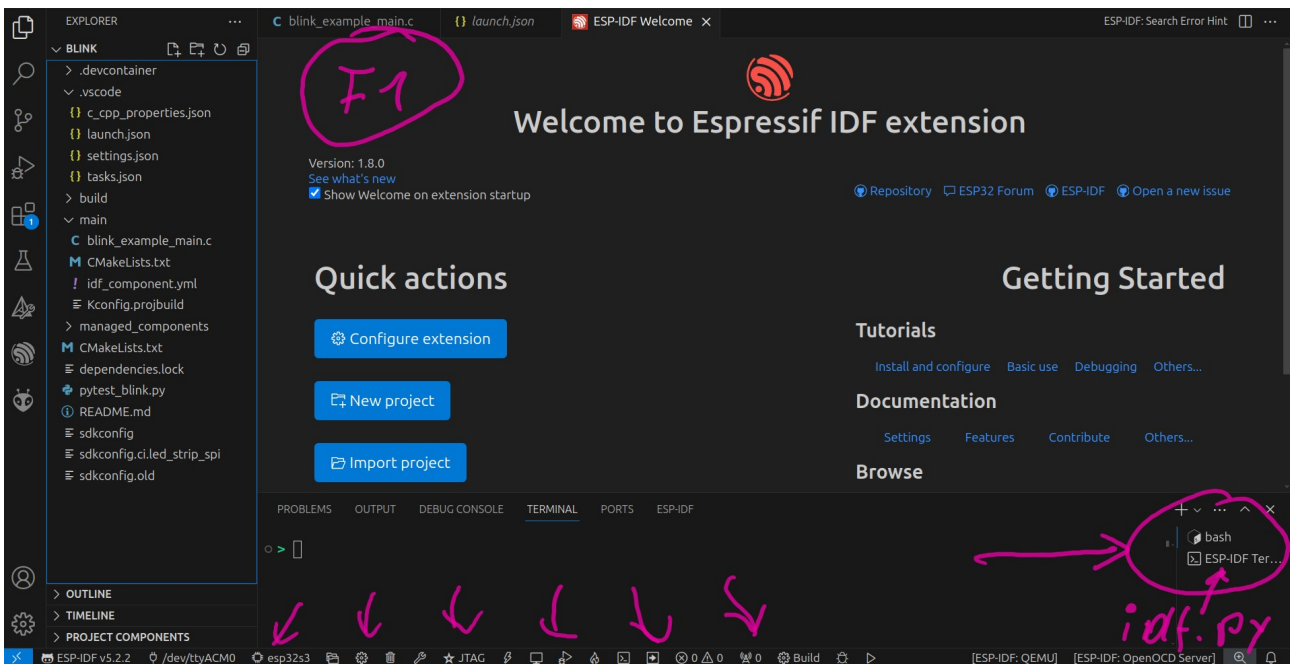
ESP-IDF (Espressif IoT Development Framework)

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VSCoDe Extension

<https://github.com/espressif/vscode-esp-idf-extension/blob/master/docs/tutorial/install.md>



Für das **Debuggen** muss das USB-Kabel am JTAG Usb Port angeschlossen sein!

Build System

- configuration
 - `sdkconfig` in the root directory of the project.
 - Wird durch **`idf.py menuconfig`** geändert
- app
 - project app
 - bootloader app.
- components
 - standalone code, compiled into static libraries (.a files) linked to an app
- target
 - full list of supported targets: **`idf.py --list-targets`**.
- ESP-IDF
 - `IDF_PATH` environment variable
- toolchain for compilation
 - is not part of the project. The toolchain should be installed in the system command line PATH.

`idf.py`

Ein command-line tool managed folgende Tools:

- [CMake](#), which configures the project to be built
- [Ninja](#) which builds the project
- [esptool.py](#) for flashing the target.

Terminalbefehle

```
>idf.py build
```

```
>idf.py -p com7 make flash monitor
```

oder die Schnittstelle über die Umgebungsvariable `ESPPORT` setzen

oder Schnittstelle über die Extension ESP-IDF in VSCode setzen:

```
>F1 >selet port to use (Ctrl+E+P)
```

>F1 >ESP-IDF:set espressive device Target

>F1 >

Wichtige Kommandos

>idf.py monitor

Abbrechen mit CTRL+T x

>ctrl+shift+P oder >F1

ESP-IDF Kommandozeile; ESP-IDF:

Debugging

Es gibt eine JTAG-Schnittstelle, die auf einen USB-Buchse verdrahtet ist (Pin 19 und 20).

<https://github.com/espressif/vscode-esp-idf-extension/blob/master/docs/DEBUGGING.md>

Anhang

<https://github.com/espressif/vscode-esp-idf-extension/blob/master/docs/DEBUGGING.md>

ESP-IDF Visual Studio Code Extension

Make sure to review our [documentation](#) first to properly use the extension.

[How-To-Use](#)