ESP32

ESP-IDF

1. Install vscode
    1. Install ESP-IDF extension
2. Install git

    1.
       ```
       $ brew install git
       ```

3. Install Python, Download at https://www.python.org/downloads/

Standard Setup of Toolchain for Mac OS

TTGO T-DISPLAY

- 2 pin JST SH 1.0 connector.

PINS

IPS ST7789V 1.14 Inch
ESP32 TTGO T-Display V1.1

ESP32 DEVKIT V1 – DOIT
version with 36 GPIOs

Input only	RTC_GPIO0	Sensor VP	ADC1 CH0	GPIO36
Input only	RTC_GPIO3	Sensor VN	ADC1 CH3	GPIO39
	Input only	RTC_GPIO4	ADC1 CH6	GPIO34
	Input only	RTC_GPIO5	ADC1CH7	GPIO35
	RTC_GPIO9	TOUCH9	ADC1 CH4	GPIO32
	RTC_GPIO8	TOUCH8	ADC1 CH5	GPIO33
	RTC_GPIO6	DAC1	ADC2 CH8	GPIO25
	RTC_GPIO7	DAC2	ADC2 CH9	GPIO26
	RTC_GPIO17	TOUCH7	ADC2 CH7	GPIO27
RTC_GPIO16	HSPI CLK	TOUCH6	ADC2 CH6	GPIO14
RTC_GPIO15	HSPI MISO	TOUCH5	ADC2 CH5	GPIO12
RTC_GPIO14	HSPI MOSI	TOUCH4	ADC2 CH4	GPIO13
	*	SHD/SD2	GPIO9	
	*	SWP/SD3	GPIO10	
	*	CSC/CMD	GPIO11	
			GND	
			VIN	

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GPIO23	VSPI MOSI	
GPIO22	I2C SCL	
GPIO1	UART 0 TX	
GPIO3	UART 0 RX	
GPIO21	I2C SDA	
GPIO19	VSPI MISO	
GPIO18	VSPI CLK	
GPIO5	VSPI CS0	
GPIO17	UART 2 TX	
GPIO16	UART 2 RX	

GPIO4	ADC2 CH0	TOUCH0	RTC_GPIO10	
GPIO2	ADC2 CH2	TOUCH2	RTC_GPIO12	
GPIO15	ADC2 CH3	TOUCH3	HSPI CS0	RTC_GPIO13
GPIO0	ADC2 CH1	TOUCH1	RTC_GPIO11	
GPIO8	SDI/SD1	*		
GPIO7	SDO/SD0	*		
GPIO6	SCK/CLK	*		
3V3				

* Pins SCK/CLK, SDO/SD0, SDI/SD1, SHD/SD2, SWP/SD3 and SCS/CMD, namely, GPIO6 to GPIO11 are connected to the integrated SPI flash integrated on ESP-WROOM-32 and are not recommended for other uses.

ESP32 DEVKIT V1 – DOIT
version with 30 GPIOs

RTC_GPIO0	Sensor VP	ADC1 CH0	GPIO36
RTC_GPIO3	Sensor VN	ADC1 CH3	GPIO39
RTC_GPIO4	ADC1 CH6	GPIO34	
RTC_GPIO5	ADC1CH7	GPIO35	
RTC_GPIO9	TOUCH9	ADC1 CH4	GPIO32
RTC_GPIO8	TOUCH8	ADC1 CH5	GPIO33
RTC_GPIO6	DAC1	ADC2 CH8	GPIO25
RTC_GPIO7	DAC2	ADC2 CH9	GPIO26
RTC_GPIO17	TOUCH7	ADC2 CH7	GPIO27
RTC_GPIO16	HSPI CLK	TOUCH6	ADC2 CH6	GPIO14
RTC_GPIO15	HSPI MISO	TOUCH5	ADC2 CH5	GPIO12
RTC_GPIO14	HSPI MOSI	TOUCH4	ADC2 CH4	GPIO13

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GND
VIN

GPIO23	VSPI MOSI
GPIO22	I2C SCL
GPIO1	UART 0 TX
GPIO3	UART 0 RX
GPIO21	I2C SDA
GPIO19	VSPI MISO
GPIO18	VSPI CLK
GPIO5	VSPI CS0
GPIO17	UART 2 TX
GPIO16	UART 2 RX
GPIO4	ADC2 CH0	TOUCH0	RTC_GPIO10
GPIO2	ADC2 CH2	TOUCH2	RTC_GPIO12
GPIO15	ADC2 CH3	TOUCH3	HSPI CS0	RTC_GPIO13
GND	
3V3	

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