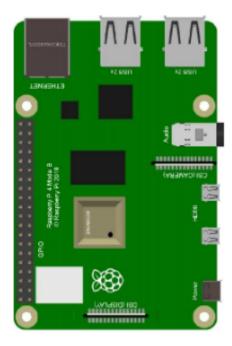
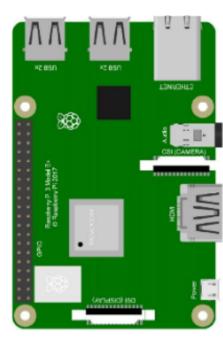
Raspberry Pi 4 Model B / CAD Cizimi:





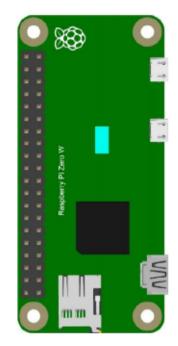
Raspberry Pi 3 Model B+ / CAD Cizimi:





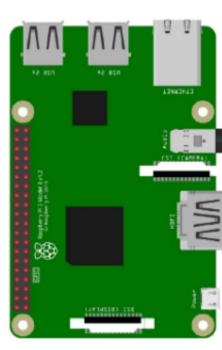
Raspberry Pi Zero W / CAD Cizimi:





Raspberry Pi 3 Model B / CAD Cizimi:

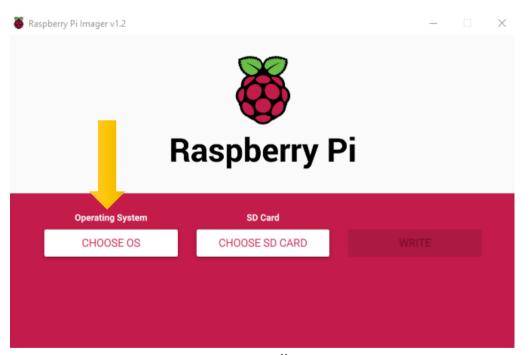




Raspberry Pi Gereken Sarj Adaptörleri

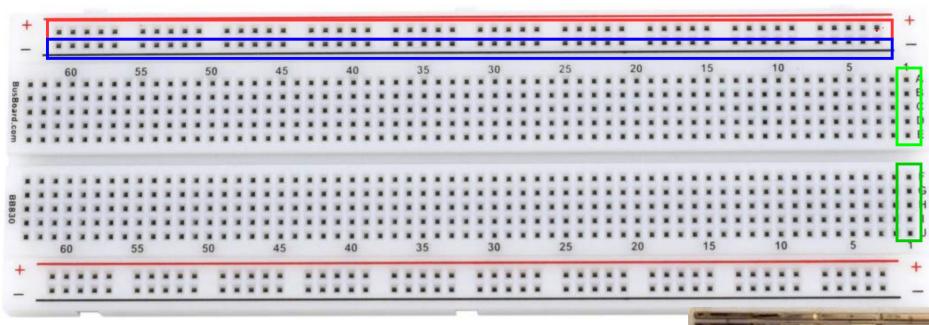
Raspberry Pi Model A	700mA		
Raspberry Pi Model B	1.2A		
Raspberry Pi Model A+	700mA		
Raspberry Pi Model B+	1.8A		
Raspberry Pi 2 Model B	1.8A		
Raspberry Pi 3 Model B	2.5A		
Raspberry Pi 3 Model A+	2.5A		
Raspberry Pi 3 Model B+	2.5A		
Raspberry Pi 4 Model B	3.0A		
Raspberry Pi Zero W	1.2A		
Raspberry Pi Zero	1.2A		

Raspberry Pi Imager



Bilgi: Ctrl+Shift+X ek Özellikler Acar!

Devre Tahtasi (Breadboard)





GPIO Haritasi

i²C: Inter-Integrated Circuit SCL: Serial Clock

SDA: Serial Data

J8 Power GPIO2 3 4 {I2C} SDA1 Power GPIO3 6 6 GND {I2C} SCL1 GPIO4 7 8 GPIO14 **GPCLK0** {UART} TXD0 GND 9 0 GPIO15 {UART} RXD0 ① ② GPIO18 GPIO17 PCM_CLK (13) (14) GND **GPIO27**

UART: Universal Asynchronous Receiver Transmiter

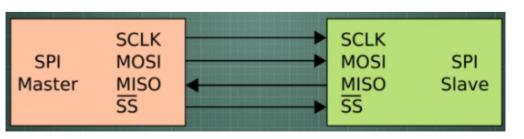


GPCLK: General Purpose Cloack (Fix Frekans Ayarlanabilir Pin)

GPIO22 (15) (16) GPIO23 (17) (18) GPIO24 +3,3V Power GPIO10 (9) @ GND SPI0_MOSI GPIO9 (2) (2) GPIO25 SPI0_MISO (3) (4) GPIO8 SPI0_SCLK **GPIO11** SPI0_CE0_N (25) (26) GPIO7 GND SPI0_CE1_N ID_SD 2 B ID_SC {ID EEPROM} {ID EEPROM} GPIO5 (29) (30) GND GPCLK1 GPIO6 3 3 GPIO12 GPCLK2 PWM0 GPIO13 (33) (34) GND PWM1 GPIO19 (35) (36) GPIO16 PCM_FS GPIO26 37 38 GPIO20 PCM_DIN (39) (40) GPIO21 PCM_DOUT GND

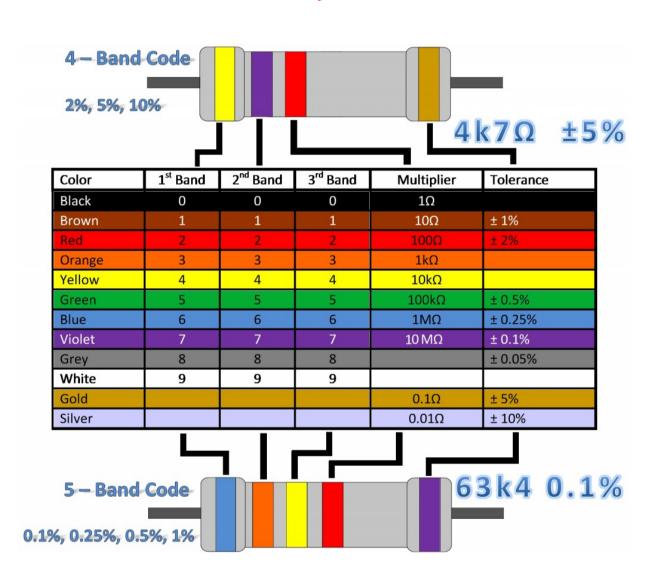
EEPROM: Electrically Eraseable Programmable **Read-Only Memory**

PCM: Pulse-Code Modulation



wiringPi	BCM	Name	Header	Name	BCM	wiringPi	
Pin	GPIO	Hamo	1100001	Numo	GPIO	Pin	
_		3.3v	1 2	5v	_	_	
8	R1:0/R2:2	SDA	3 4	5v	_	_	
9	R1:1/R2:3	SCL	5 6	0v	_	_	
7	4	GPIO7	7 8		14	15	
_	_	0v	9 10		15	16	
0	17	GPIO0	11 12	GPI01	18	1	
2	R1:21/R2:27	GPIO2	13 14	0v	_	_	
3	22	GPIO3	15 16	GPIO4	23	4	
_	_	3.3v	17 18	GPIO5	24	5	
12	10	MOSI	19 20	0v	_	_	
13	9	MISO	21 22	GPI06	25	6	
14	11	SCLK	23 24	CE0	8	10	
_	_	0v	25 26	CE1	7	11	
30	0	SDA.0	27 28	SCL.0	1	31	
21	5	GPIO.21	29 30	0V			
22	6	GPIO.22	31 32	GPIO.26	12	26	
23	13	GPIO.23	33 34	0V			
24	19	GPIO.24	35 36	GPIO.27	16	27	
25	26	GPIO.25	37 38	GPIO.28	20	28	
		0V	39 40	GPIO.29	21	29	
wiringPi	ВСМ	Name	Header	Name	ВСМ	wiringPi	
Pin	GPIO	Name	Headel	Name	GPIO	Pin	

SoKaKTa SaYaMaM GIBI



Wiring Pi Yükleme;

sudo apt-get update

git clone https://github.com/WiringPi/WiringPi

cd WiringPi

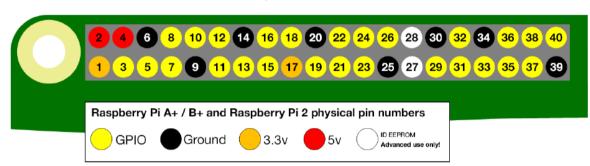
./build

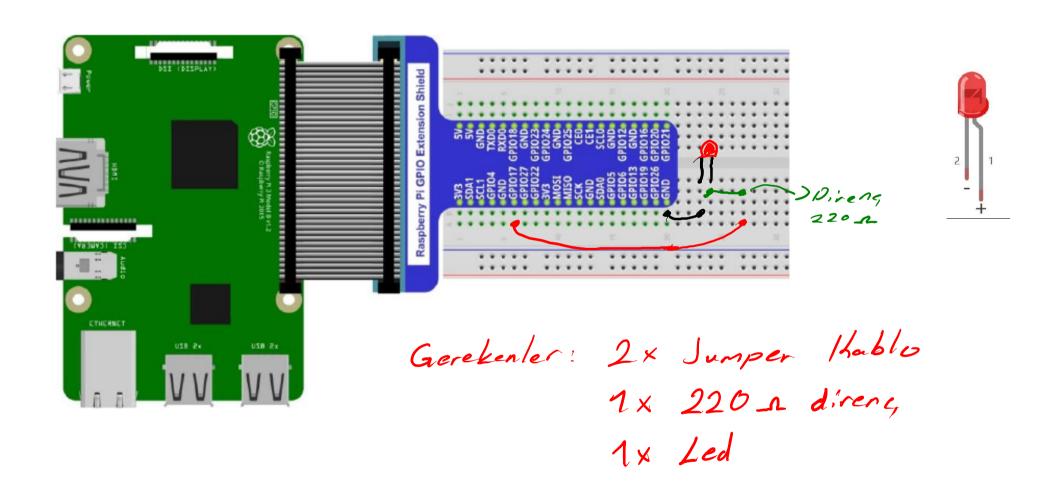
Test et:

BCM	wPi	Name	Mode		Phys	ical		Mode	Name	WPi	BC
		+	+ ·	+			+	+ ·		+	+
		3.3v	l						5v		
2		SDA.1	ALT0					İ	5v		
3		SCL.1	ALT0					İ	0v		
4		GPI0. 7	IN					IN	TxD		14
		0v	İ			10		IN	RxD	16	15
17		GPIO. 0	IN		11	12		IN	GPI0. 1		18
27		GPIO. 2	IN		13	14		ĺ	0v		
22		GPIO. 3	IN		15	16		IN	GPI0. 4		23
		3.3v	ĺ		17	18		IN	GPI0. 5		24
10	12	MOSI	IN		19	20			0v		
	13	MIS0	IN		21	22		IN	GPIO. 6		25
11	14	SCLK	IN		23	24		IN	CEO	10	8
		0v				26		IN	CE1	11	7
0	30	SDA.0	IN		27			IN	SCL.0	31	1
	21	GPI0.21	IN			30			0v		
	22	GPI0.22	IN		31	32		IN	GPI0.26	26	12
13	23	GPI0.23	IN		33	34			0v		
	24	GPI0.24	IN			36		IN	GPI0.27	27	16
26		GPI0.25	IN		37	38		IN	GPI0.28	28	20
		0v			39	40		IN	GPI0.29		21

1. Led Yakna

Hatirlatna: !!!





tigh 1

2. Button ile Led Yalone

Gerekenler: 5x Jumper Kablo

1 x Button

1 x Led

1 x 220 - Direng

2 x 10k - Direng

