Arduino Leonardo Wiring
for
Custom Joystick

Joystick Main Case

6x Wire	
Black	GND
Red	+5V
Orange	A0
White	A1
Yellow	D2
Green	D3
Blue	D4

External Button 1

2x Wire	
Black	GND
Red	D9

External Button 2

2x Wire	
Black	GND
Red	D10

Joystick Secondary Case

6x Wire	
Black	GND
Red	+5V
Orange	A2
White	A3
Yellow	D5
Green	D6

Slider Case

6x Wire	
Black	GND
Red	+5V
Orange	A4
White	A5
Yellow	D7
Green	D8

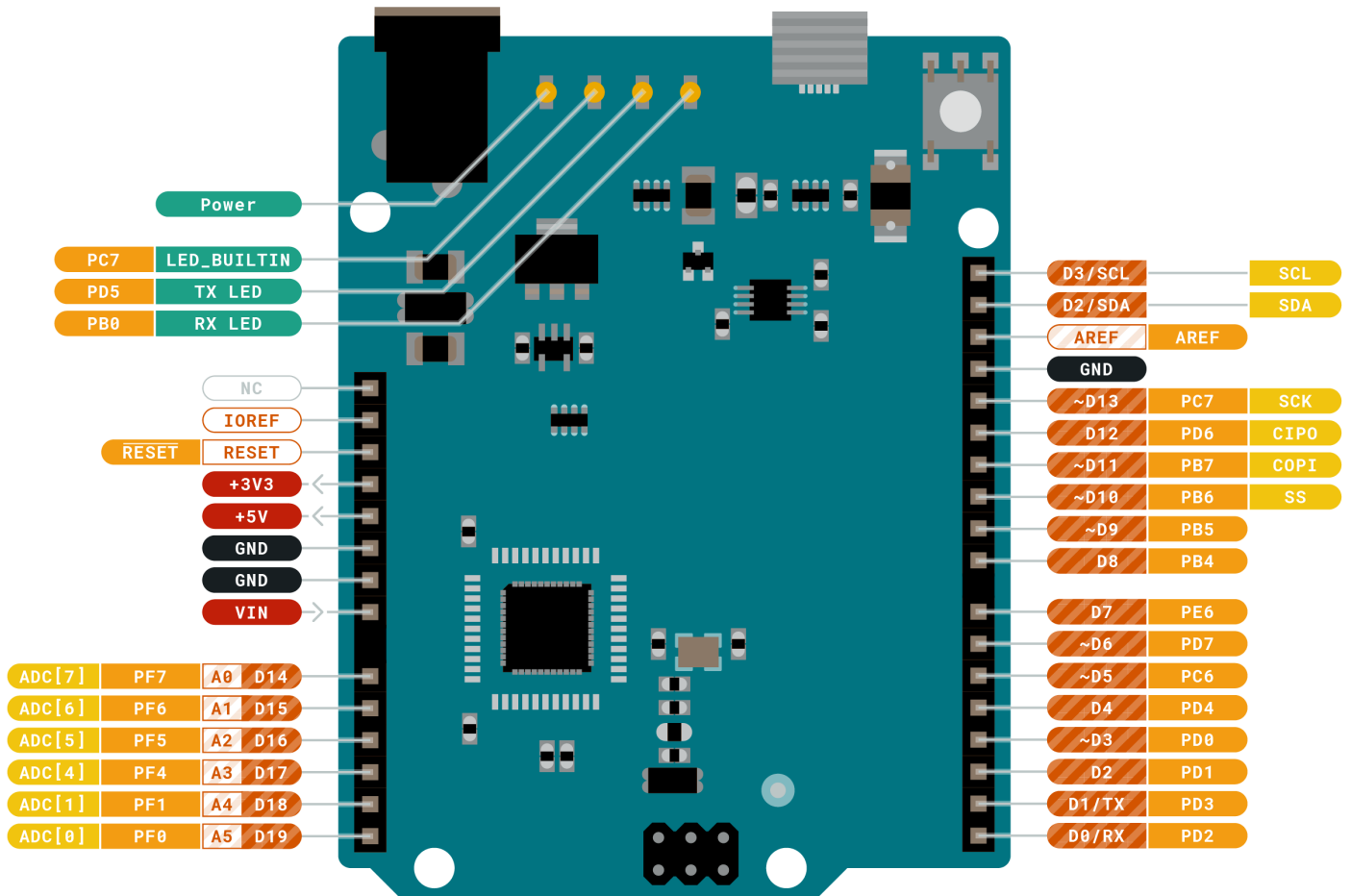## Requirements:
1x - Arduino Leonardo
3x - 6 wire cables
2x - 2 wire cables
1x - 1 wire (blue)

1 extra blue wire is for main joystick' 3rd button

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Power	

PC7	LED_BUILTIN
PD5	TX LED
PB0	RX LED

NC	
IOREF	
RESET	RESET
+3V3	
+5V	
GND	
GND	
VIN	

ADC[7]	PF7	A0	D14
ADC[6]	PF6	A1	D15
ADC[5]	PF5	A2	D16
ADC[4]	PF4	A3	D17
ADC[1]	PF1	A4	D18
ADC[0]	PF0	A5	D19

D3/SCL		SCL
D2/SDA		SDA
AREF	AREF	
GND		
~D13	PC7	SCK
D12	PD6	CIPO
~D11	PB7	COPI
~D10	PB6	SS
~D9	PB5	
D8	PB4	
D7	PE6	
~D6	PD7	
~D5	PC6	
D4	PD4	
~D3	PD0	
D2	PD1	
D1/TX	PD3	
D0/RX	PD2	

Legend

■	Ground	■	Internal Pin	▨	Digital Pin
■	Power	■	SWD Pin	▨	Analog Pin
■	LED	▢	Other Pin	■	Default

■	Microcontroller's Port

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