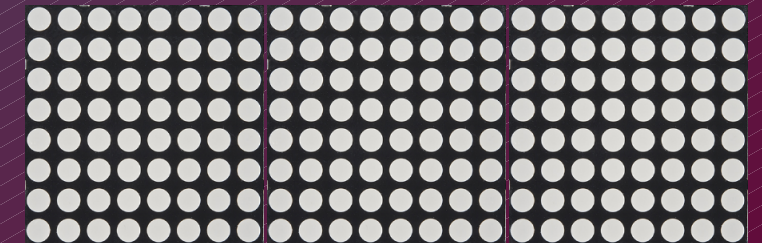
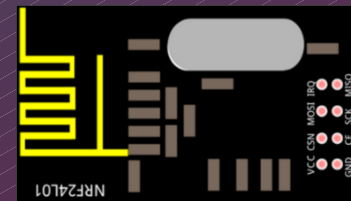
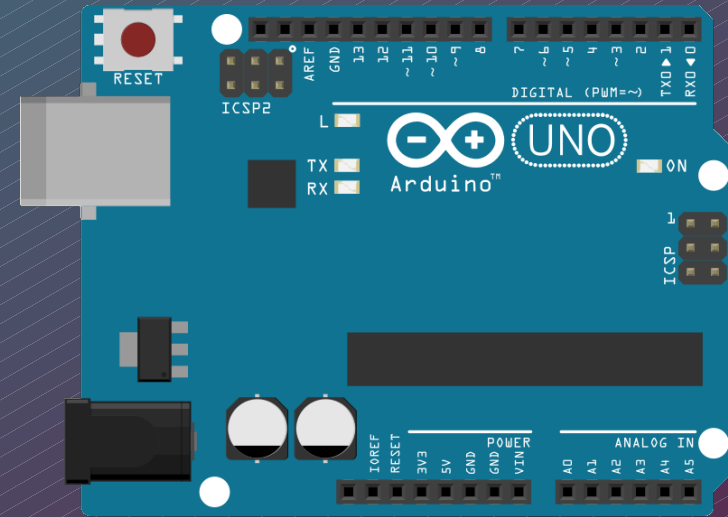
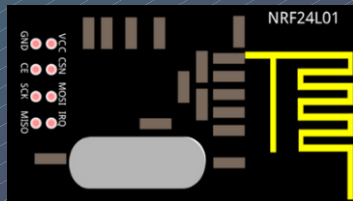
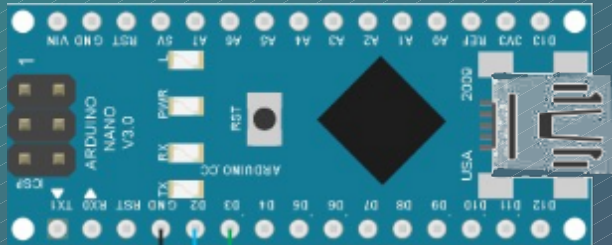


*Передача пользовательских данных  
по беспроводному каналу связи*

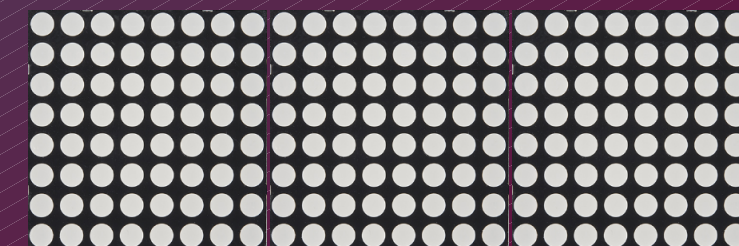
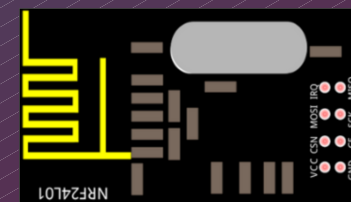
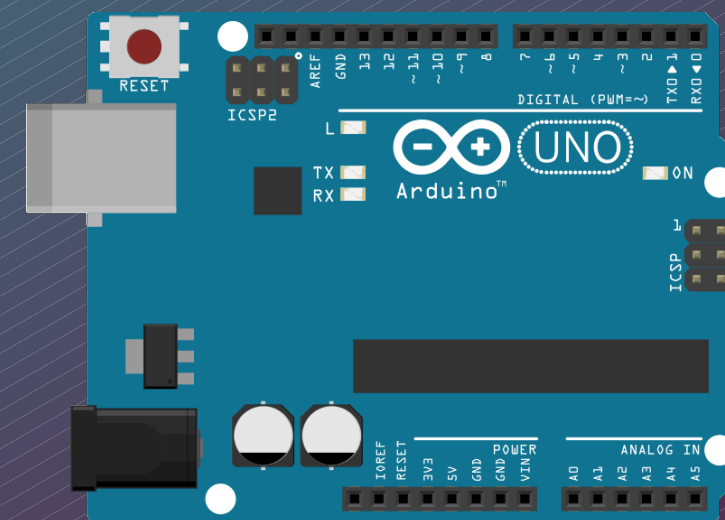
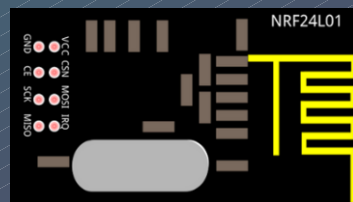
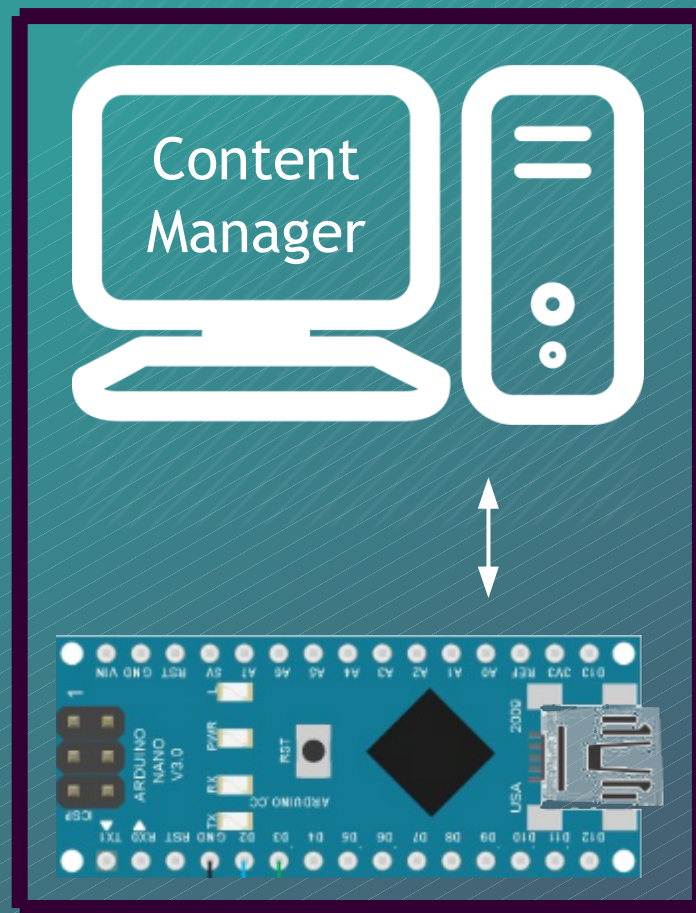


# Project architecture






# PC-Nano Connection

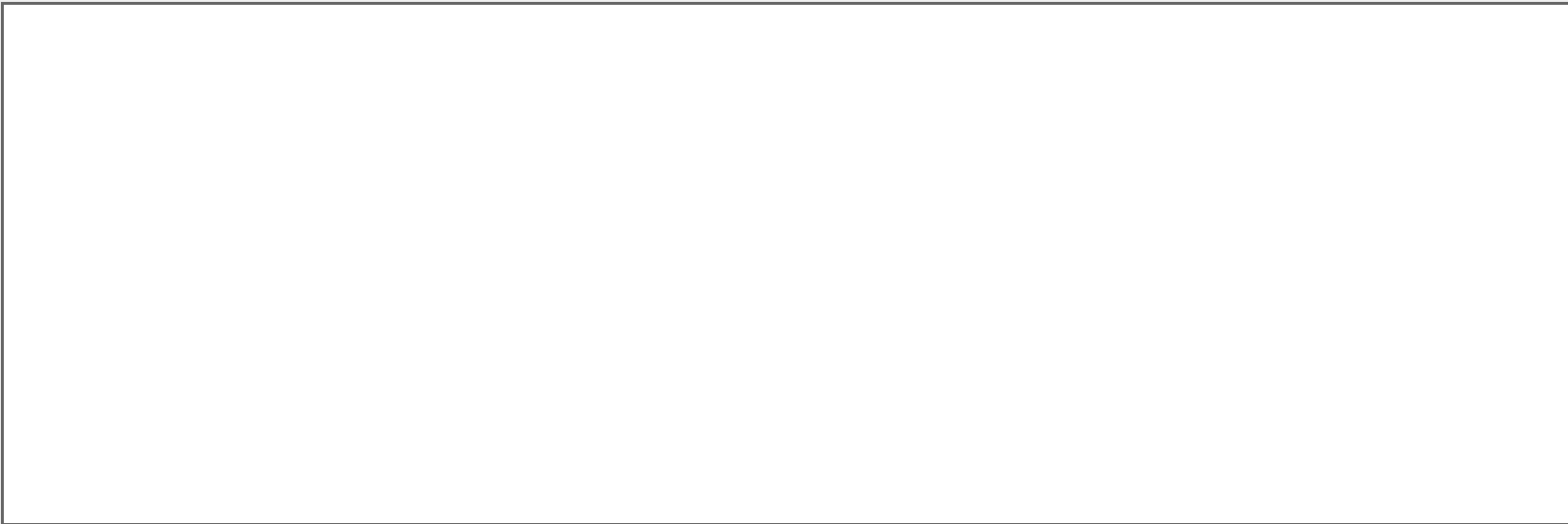



# Content Manager

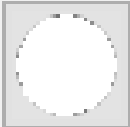
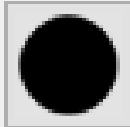
 Content Manager— □ ×

Enter text up to 32 symbols:

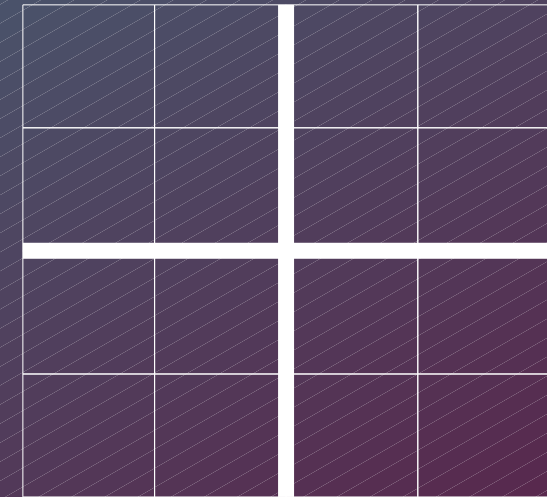
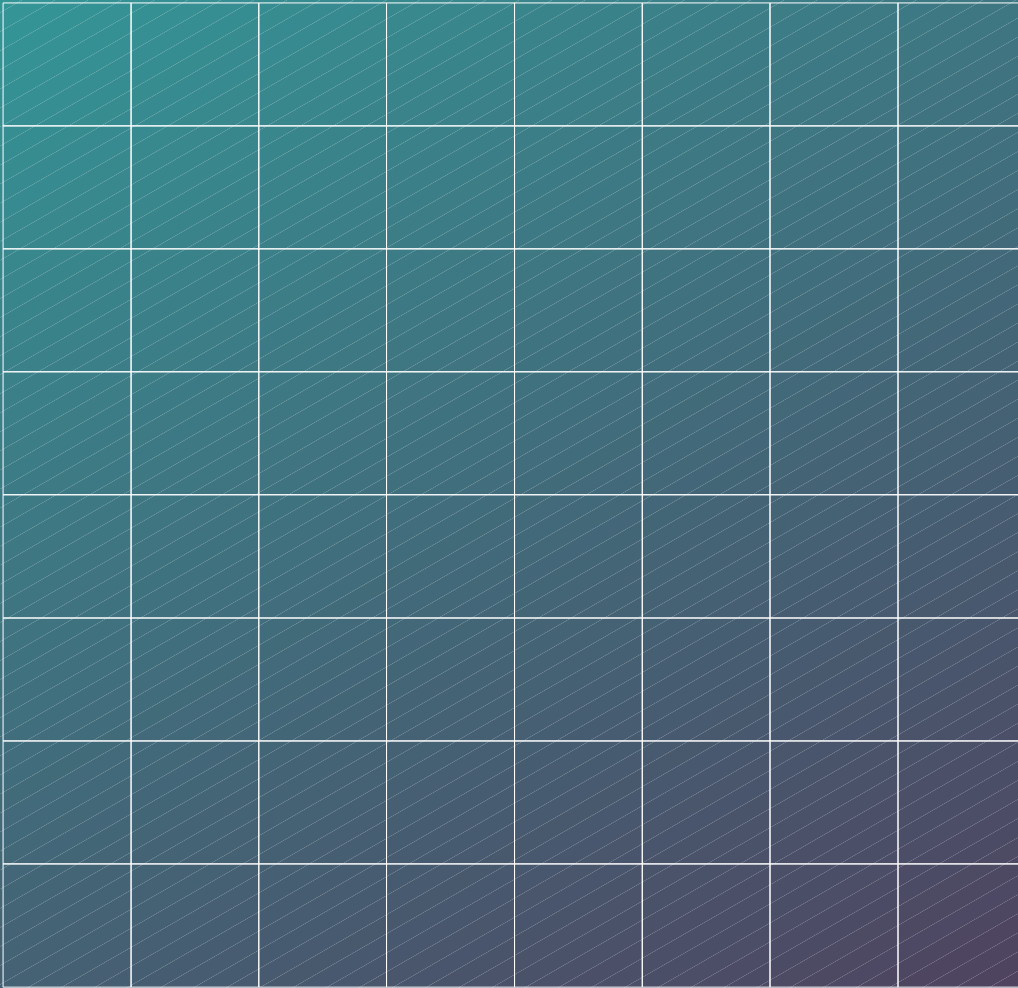
Draw something:





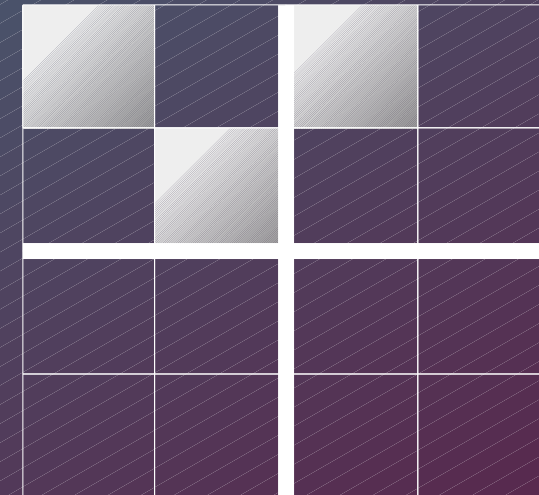
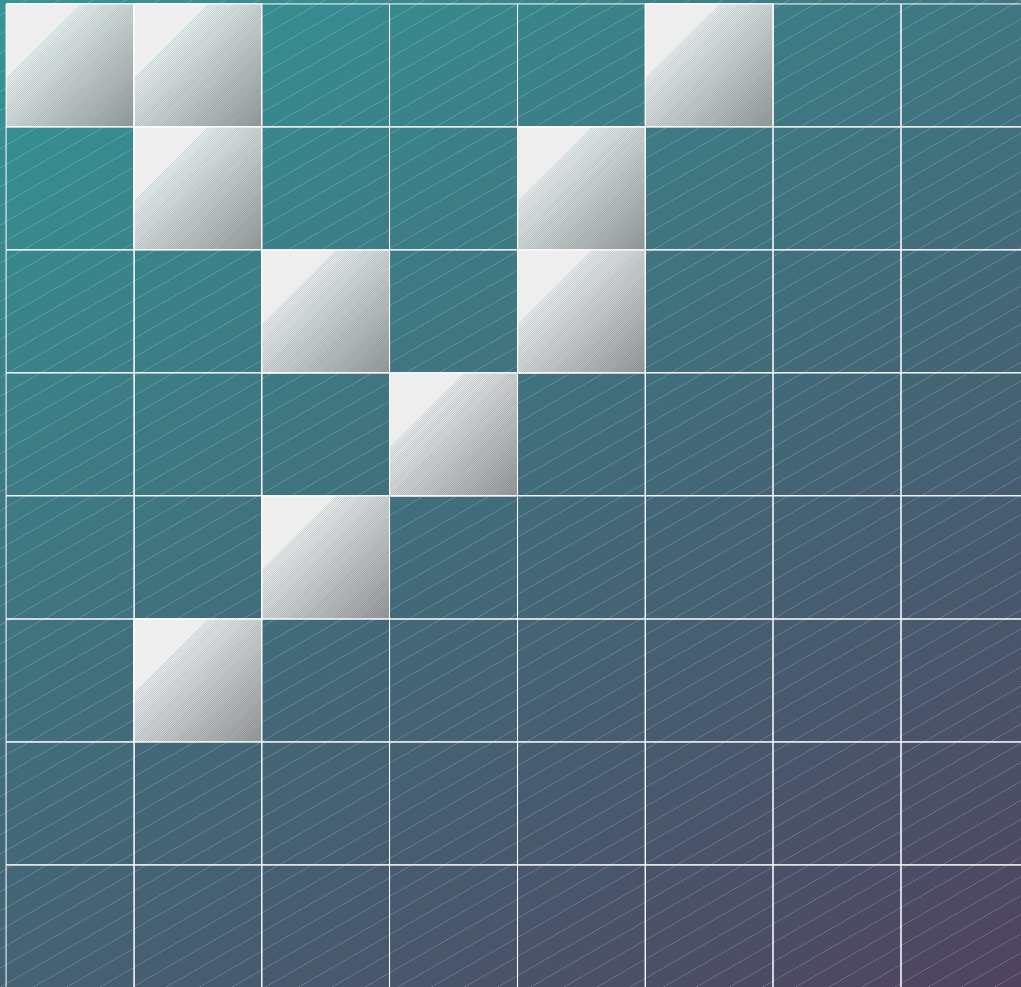


# Drawing Processing (1)

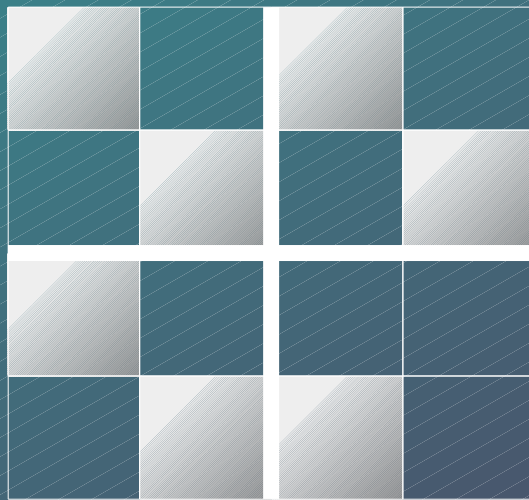




# Drawing Processing (2)

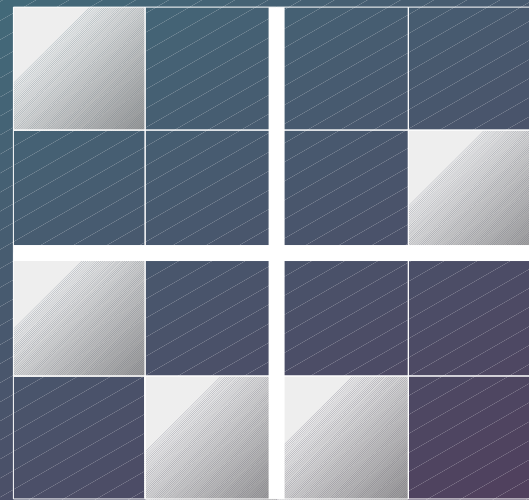


# Drawing Processing (3)



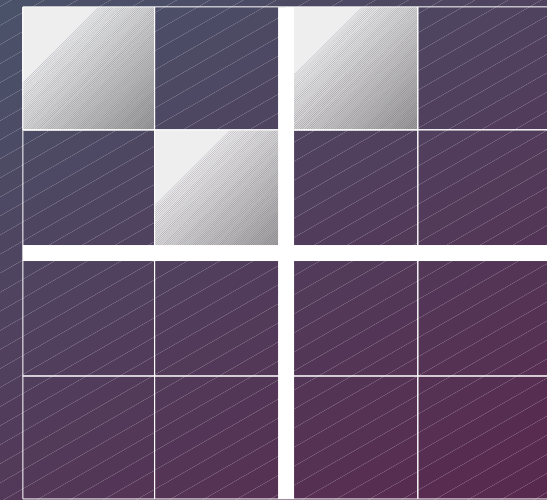
New State

=



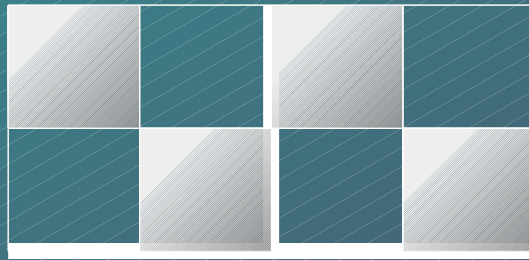
Current State

+

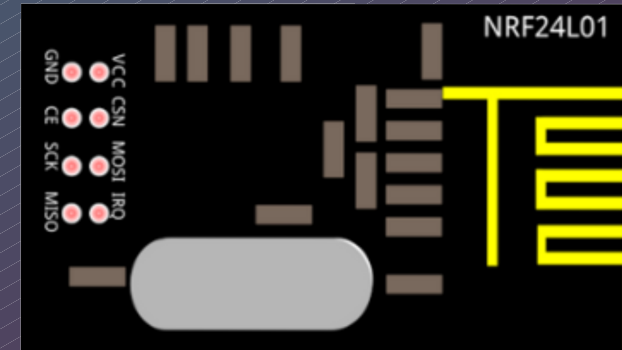




# Drawing Processing (4)



sending

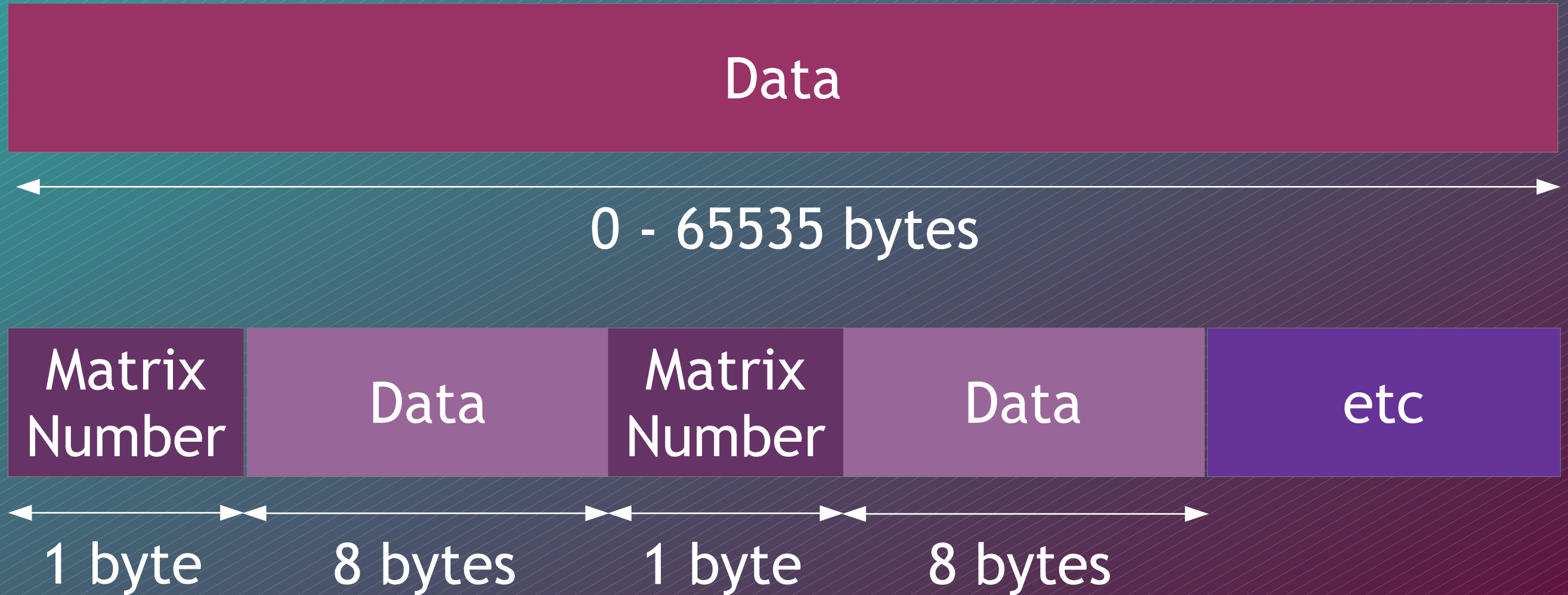




# Packet Structure



# Data field if drawing transmitted



# Function calls tree

sendData(string text)



sendData(List<byte> data, string kind\_of\_data)



encapsulate(List<byte> data, string kind\_of\_data)

sendDataToCOM(byte[] data, ushort length)



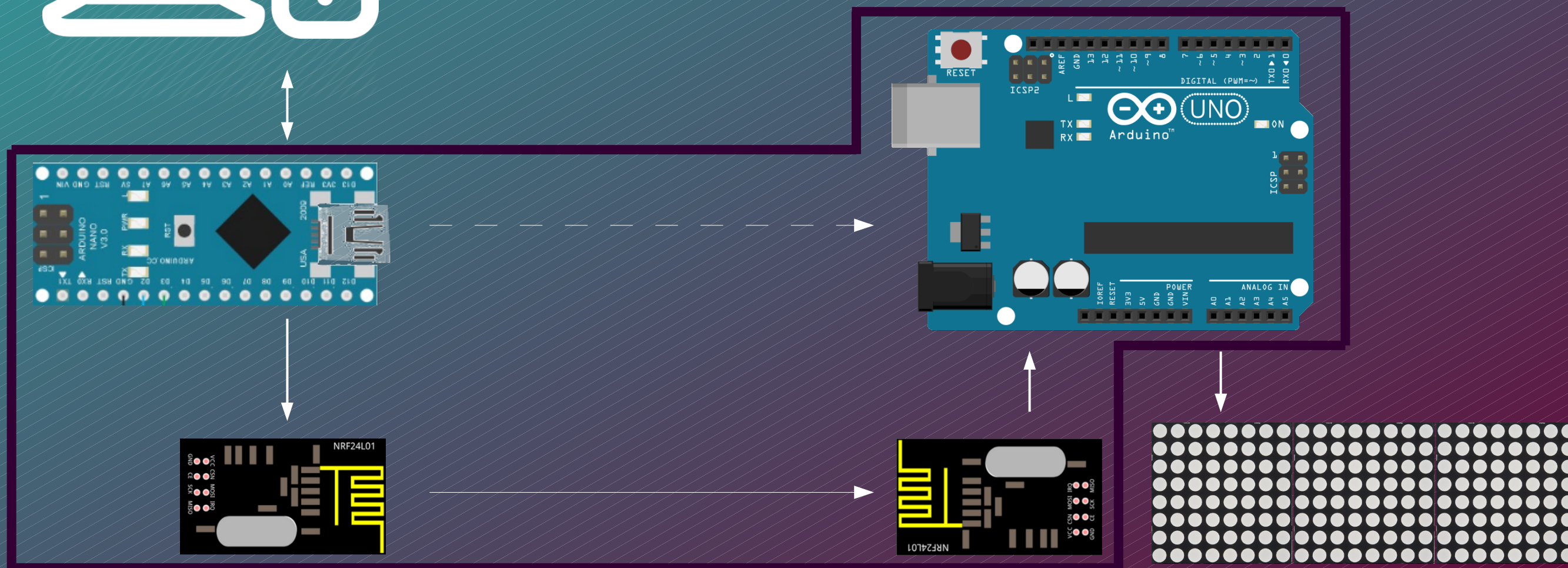
addDataLength(List<byte> data)

addControlCommand(List<byte> data, string kind\_of\_data)





# Nano-UNO Connection



# Control Command

1

DisplayText(LedControl, char\* text,  
uint8\_t size\_of\_data)

3

ClearDisplay(LedControl)

2

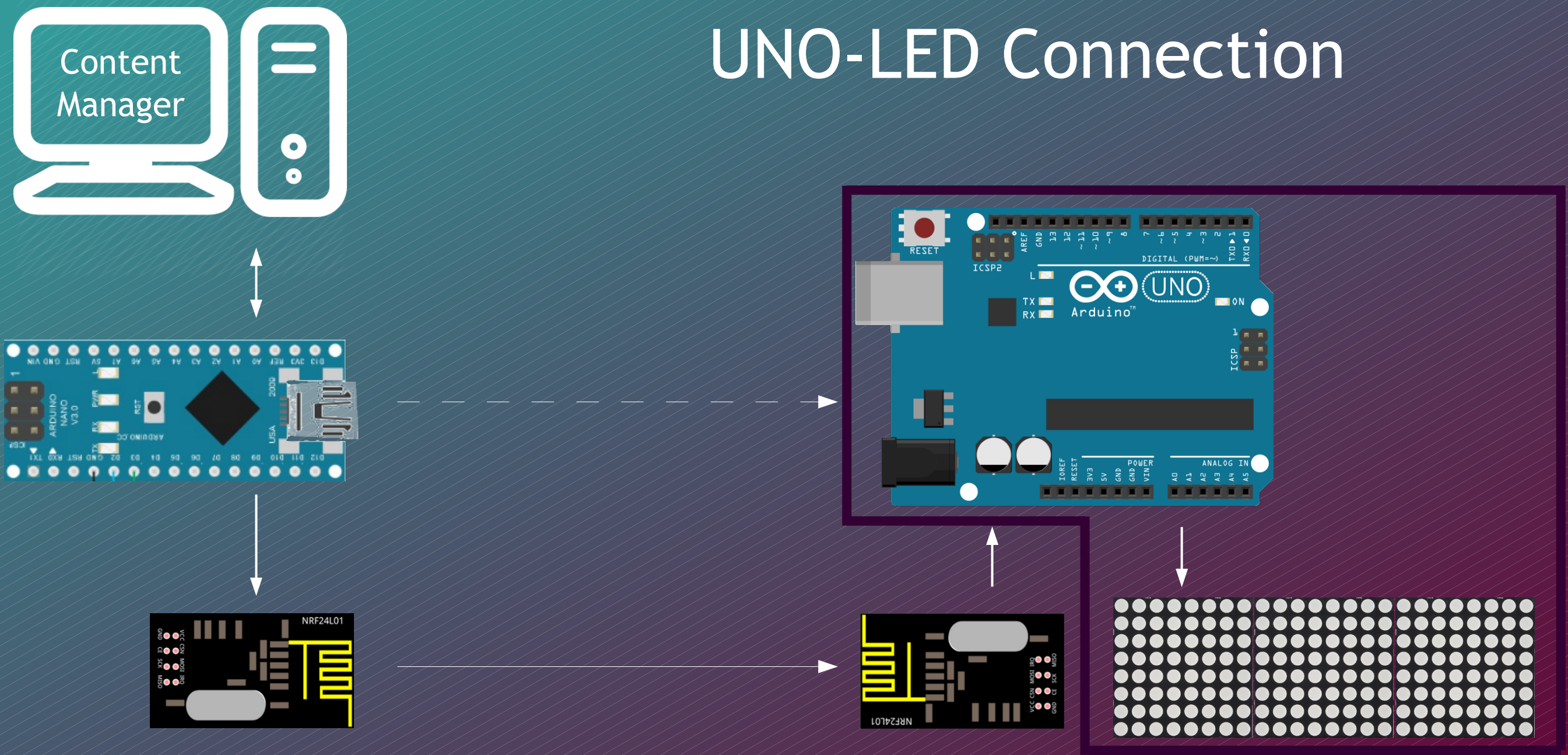
DisplayPicture(LedControl, char\* data,  
char quantity\_of\_matrix)

DisplayAlpha(LedControl, uint8\_t number\_of\_matrix,  
uint8\_t alpha\_position\_in\_alphabet)

DisplayMatrix(LedControl, char address\_of\_matrix,  
char\* matrix)



# UNO-LED Connection





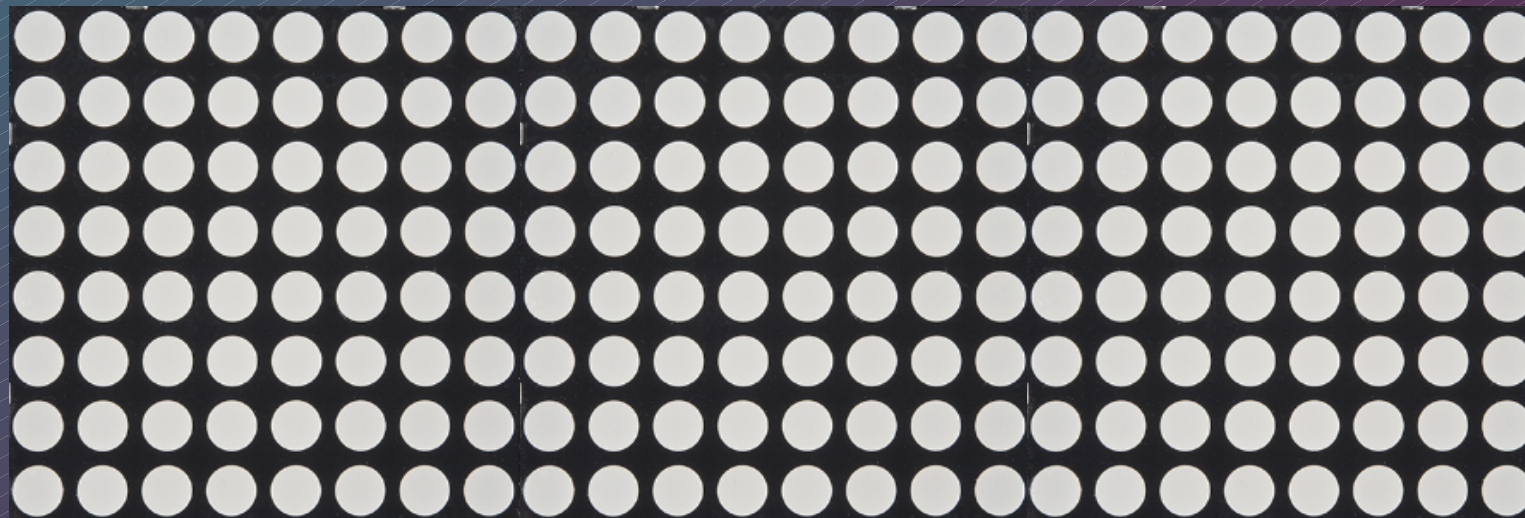
# DisplayText (1)

M	E	R	A
---	---	---	---

## DisplayText (2)

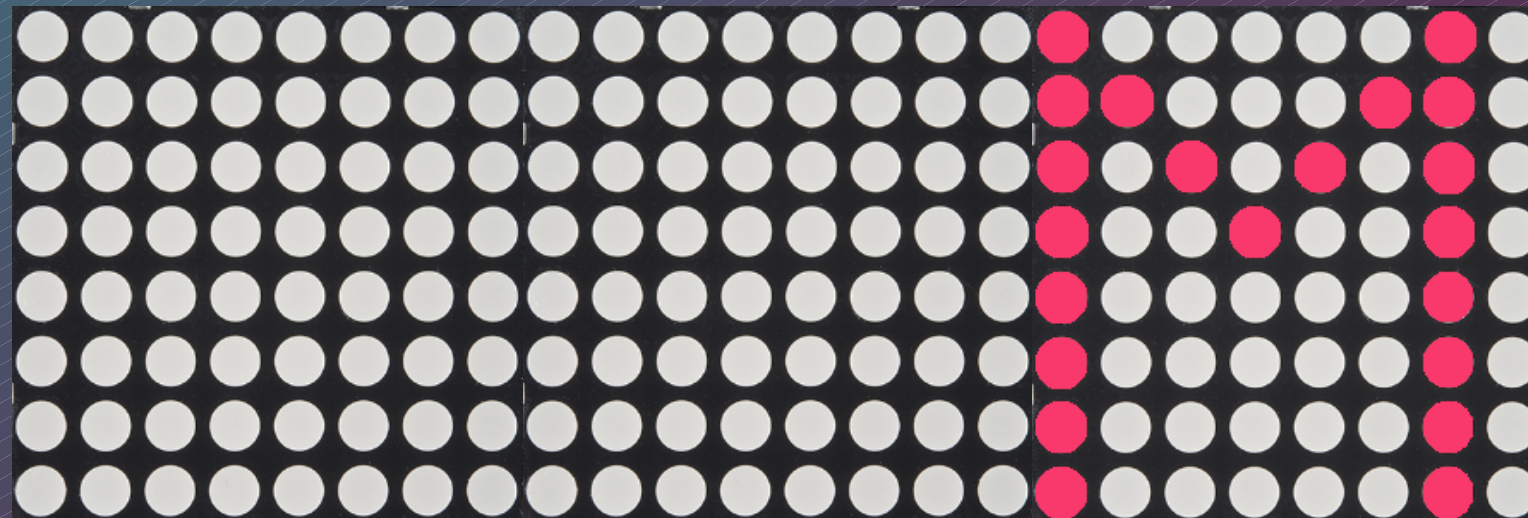
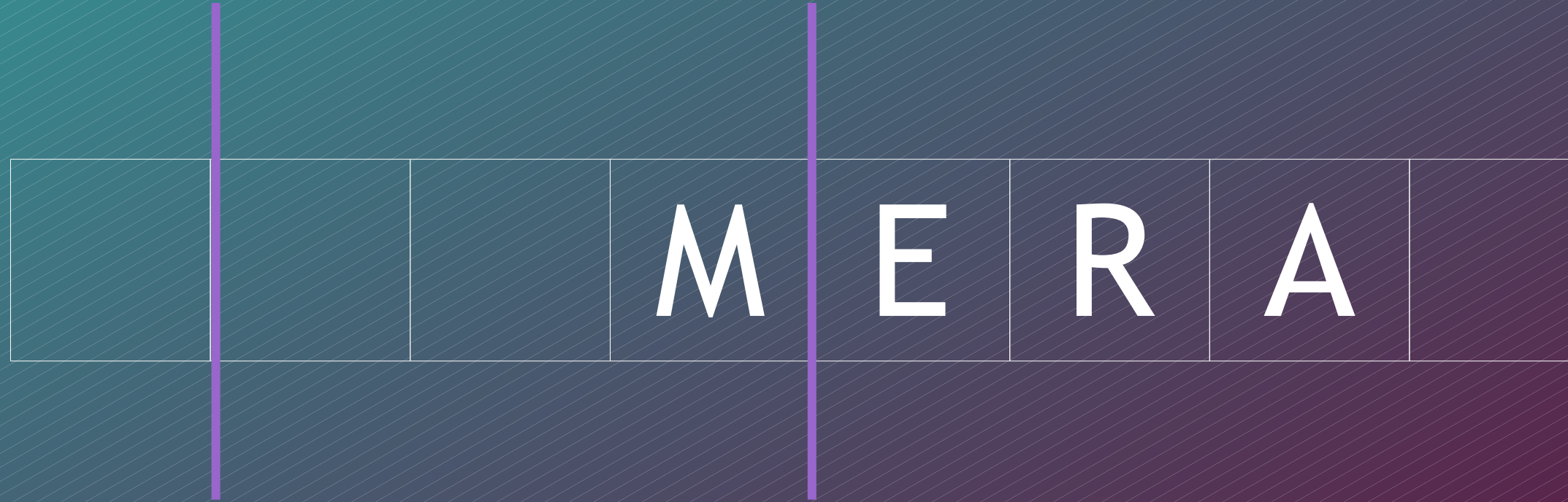
			M	E	R	A			
--	--	--	---	---	---	---	--	--	--

# DisplayText (3)

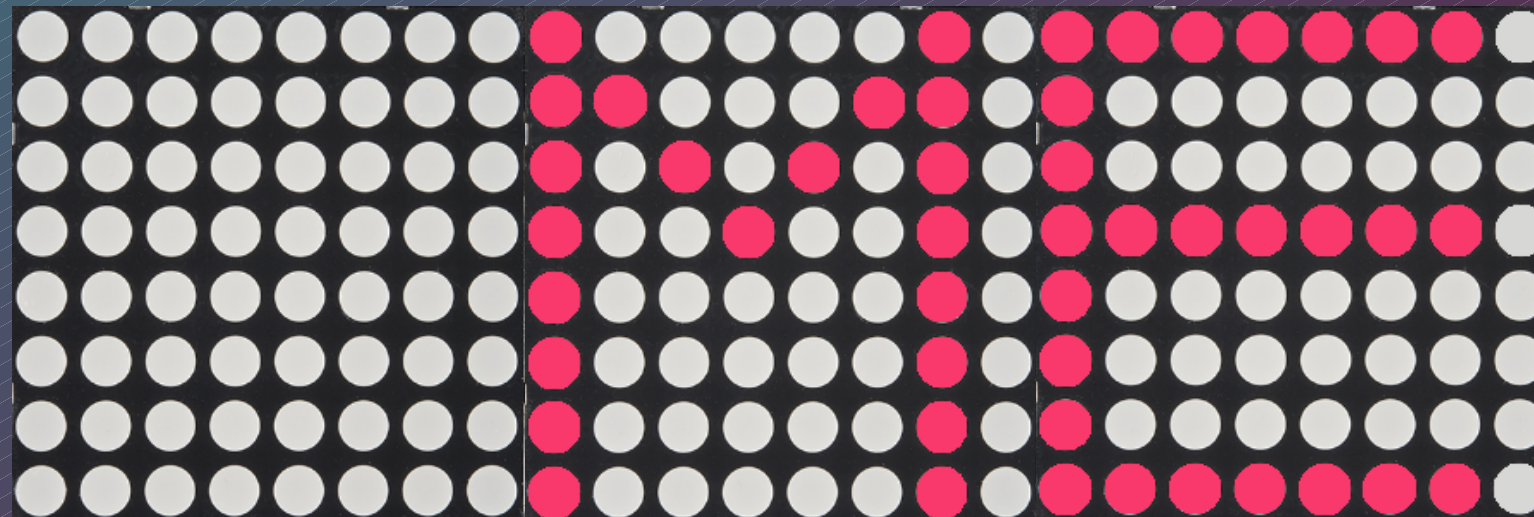




# DisplayText (3)

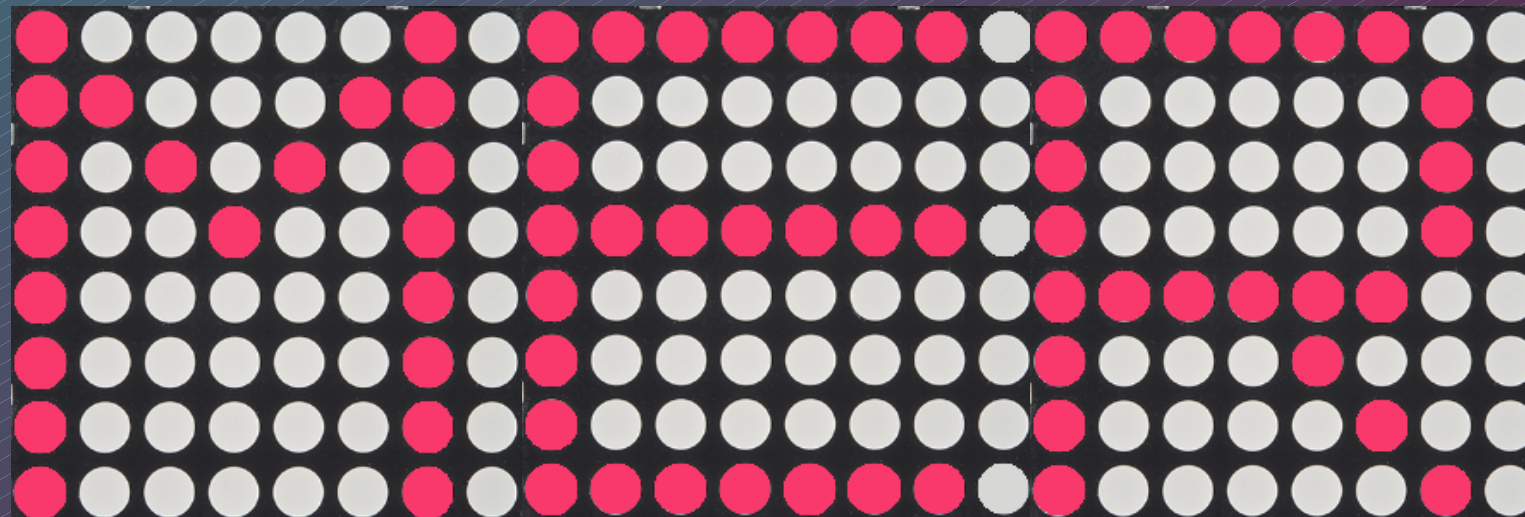


# DisplayText (3)





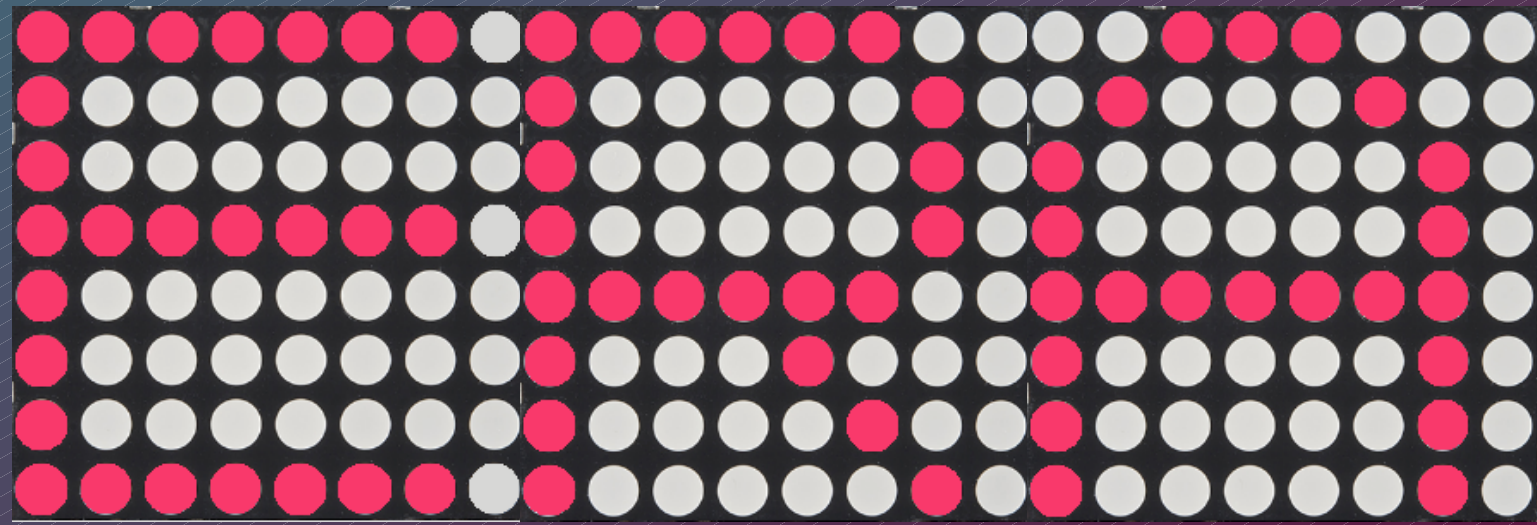
# DisplayText (3)



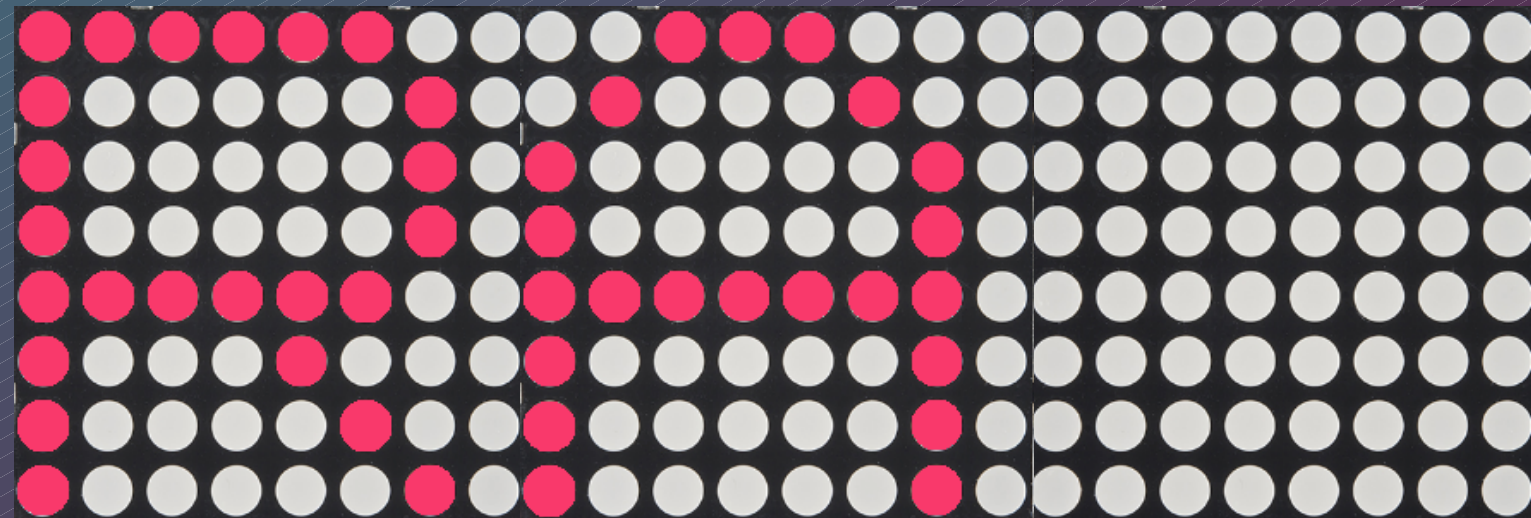


# DisplayText (3)

M E R A



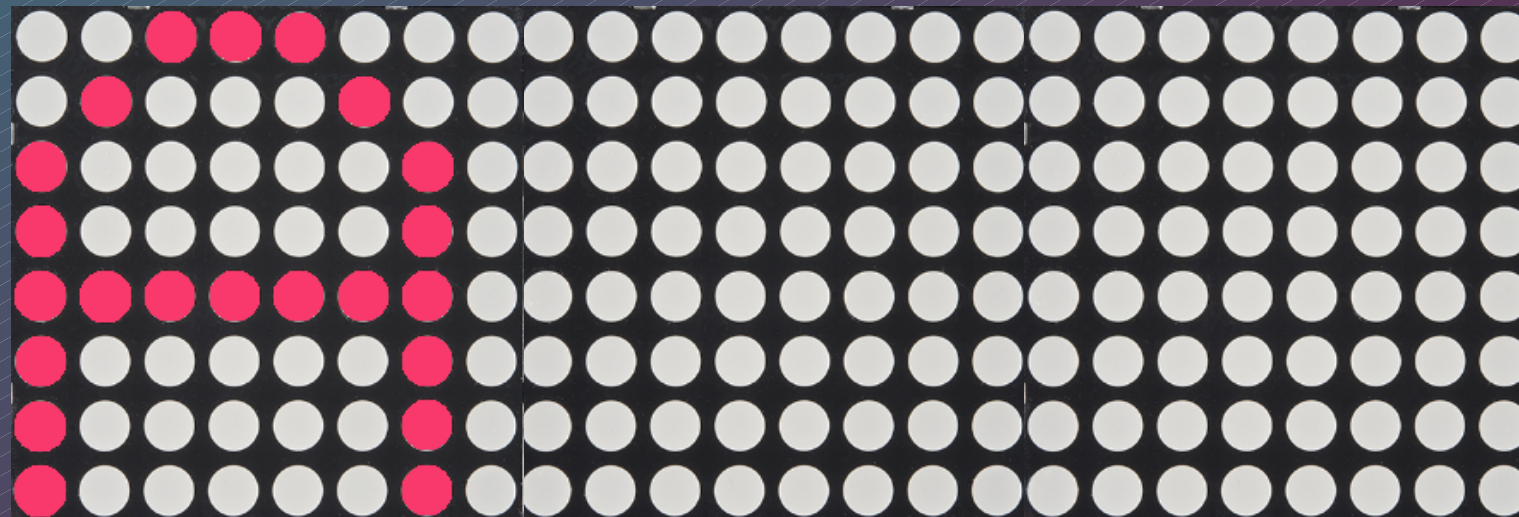
# DisplayText (3)





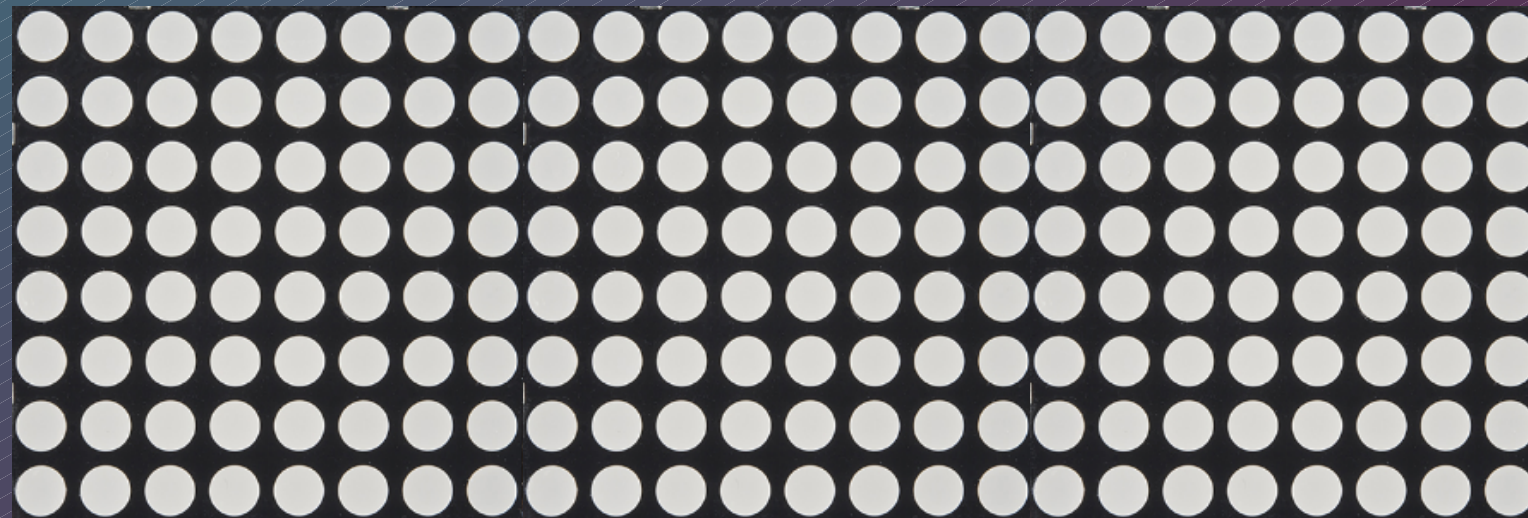
# DisplayText (3)

M E R A





## DisplayText (3)



*Usage*

*Demo*



*Thank You*