Make Your Own 1D Pong Game

by GreatScottLab

For this project I will show you how I combined an MDF board with buzzer buttons, LEDs and an Arduino Nano in order to create a 1D Pong Game that is really fun to play. Along the way I will show you how to create the electronics circuit and how difficult it actually is to program such a 1D Pong Game from scratch. **Let's get started!**

Step 1: Watch the Video!

The video gives you all the general information to create your own 1D Pong Game. During the next steps though I will present you some additional information.

https://youtu.be/liZMwlnWuTM

Step 2: Order the Components!

Here is a parts list with example seller:

Amazon.com:

1x 5m WS2812B LED Strip: https://amzn.to/2tgp0aT

2x Buzzer Button: https://amzn.to/2lds1oQ

1x 5V 3A Power Supply: https://amzn.to/2lfvQtP

1x DC Jack: https://amzn.to/2JO53DG

Ebay:
1x Arduino Nano: http://rover.ebay.com/rover/1/711-53200-19255-0/1?...

2x Wago Terminal: http://rover.ebay.com/rover/1/711-53200-19255-0/1?...

1x 5m WS2812B LED Strip: http://rover.ebay.com/rover/1/711-53200-19255-0/1?...

2x Buzzer Button: http://rover.ebay.com/rover/1/711-53200-19255-0/1?...

1x Arduino Nano: https://amzn.to/2JS2Rqs

2x Wago Terminal: https://amzn.to/2LThnic

1x 5V 3A Power Supply: http://rover.ebay.com/rover/1/711-53200-19255-0/1?...

1x DC Jack: http://rover.ebay.com/rover/1/711-53200-19255-0/1?...

Amazon.de:

1x Arduino Nano: https://amzn.to/2LZIisZ

2x Wago Terminal: https://amzn.to/2JXPUyQ

1x 5m WS2812B LED Strip: https://amzn.to/2JTdQQw

2x Buzzer Button: https://amzn.to/2lg1xTS

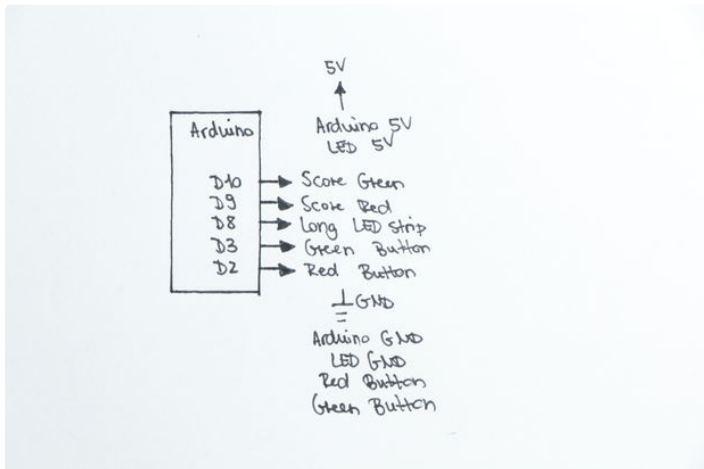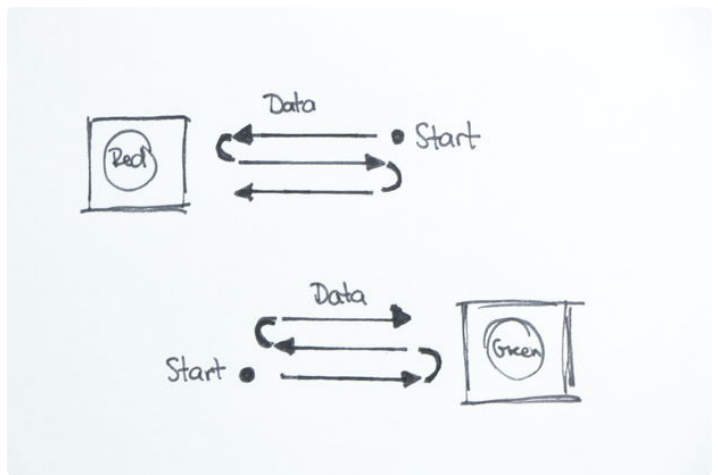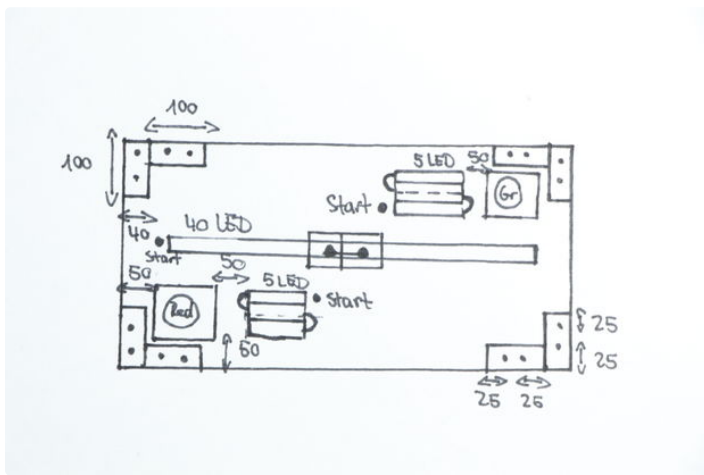1x 5V 3A Power Supply: https://amzn.to/2leKSQv

1x DC Jack: https://amzn.to/2lghlG8
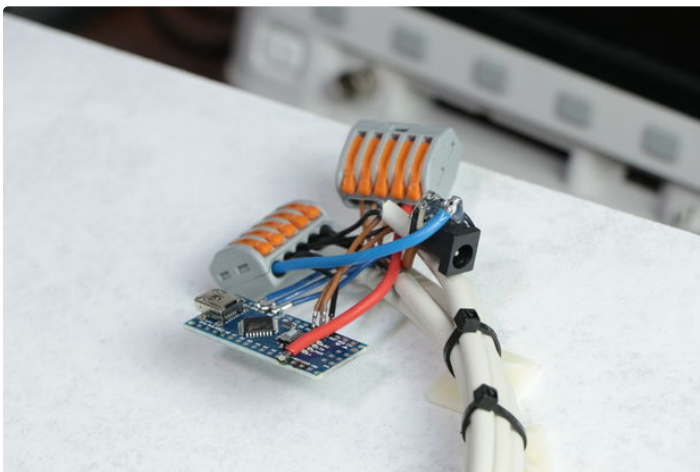
Step 3: Create the Game Board and the Circuit

Here you can find the plans and the schematic for the 1D Pong Game. Feel free to use them for your own game.

Step 4: Upload the Code!

Here you can download the code for the 1D Pong Game. But before uploading it to the Arduino you should also download/include the FastLED library (https://github.com/FastLED/FastLED).

http://www.instructable…   Download

Step 5: Success!

You did it! You just created your own 1D Pong Game!

Feel free to check out my YouTube channel for more awesome projects:
http://www.youtube.com/user/greatscottlab

You can also follow me on Facebook, Twitter and Google+ for news about upcoming projects and behind the scenes information:

https://twitter.com/GreatScottLab

https://www.facebook.com/greatscottlab