BASICS OF THE SPI COMMUNICATION PROTOCOL

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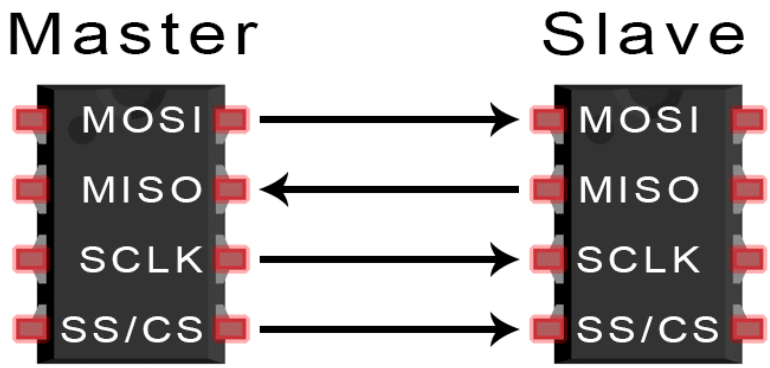

When you connect a microcontroller to a sensor, display, or other module, do you ever think about how the two devices talk to each other? What exactly are they saying? How are they able to understand each other?

Communication between electronic devices is like communication between humans. Both sides need to speak the same language. In electronics, these languages are called *communication protocols*. Luckily for us, there are only a few communication protocols we need to know when building most DIY electronics projects. In this series of articles, we will discuss the basics of the three most common protocols: Serial Peripheral Interface (SPI), Inter-Integrated Circuit (I2C), and Universal Asynchronous Receiver/Transmitter (UART) driven communication.

First, we'll begin with some basic concepts about electronic communication, then explain in detail how SPI works. In the next article, we'll discuss UART driven communication, and in the third article, we'll dive into I2C.

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