Recently I noticed that the Arduino IDE software lost the pin assigments for the nodeMCU boards. I found this:

<http://blog.falafel.com/programming-gpio-on-the-esp8266-with-nodemcu/>

Using these numbers seems to have fixed what issue I was having, but I need to figure out why the IDE messed up.

The available pins in NodeMCU include:

| **GPIO** | **ID** | **INPUT** | **OUTPUT** | **PULL-UP** | **PULL-DN** | **Note** |
| --- | --- | --- | --- | --- | --- | --- |
| 0 | 3 | X | X | X |  |  |
| 1 | 10 | X | X | X |  | The is the TXD0 pin by default |
| 2 | 4 | X | X | X |  |  |
| 3 | 9 | X | X | X |  | This is the RXD0 pin by default |
| 4 | 2 | X | X | X |  | Caution: Sometimes misidentified as #5 |
| 5 | 1 | X | X | X |  | Caution: Sometimes misidentified as #4 |
| 12 | 6 | X | X | X |  | This is the HSPI MISO pin |
| 13 | 7 | X | X | X |  | This is the HSPI MOSI pin |
| 14 | 5 | X | X | X |  | This is the HSPI CLK pin |
| 15 | 8 | X | X | X |  | This is the HSPI CSn pin |
| 16 | 0 | X | X |  | X | Belongs to the RTC module, not the general GPIO module, so behaves differently |

Update Jun 28, 2017

<https://github.com/esp8266/Arduino/issues/584>

### [**igrr**](https://github.com/igrr) **commented [on Jul 22, 2015](https://github.com/esp8266/Arduino/issues/584#issuecomment-123715951)**

| NodeMCU has weird pin mapping.  Pin numbers written on the board itself do not correspond to ESP8266 GPIO pin numbers. We have constants defined to make using this board easier:  static const uint8\_t D0 = 16; static const uint8\_t D1 = 5; static const uint8\_t D2 = 4; static const uint8\_t D3 = 0; static const uint8\_t D4 = 2; static const uint8\_t D5 = 14; static const uint8\_t D6 = 12; static const uint8\_t D7 = 13; static const uint8\_t D8 = 15; static const uint8\_t D9 = 3; static const uint8\_t D10 = 1; |
| --- |