

Exercise 7

7a:

An RGB value defines a specific color based on how much red (R), green (G) and blue (B) is in it. Together red, green and blue can create any color on screen, when lighting is added.

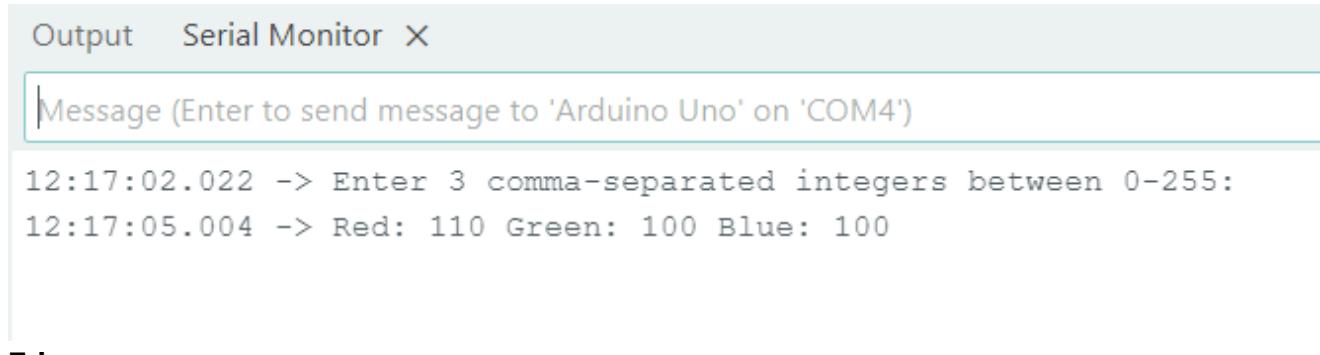
RGB values use the interval from 0-255 (8 bits/1 byte) for each color channel. This means that $256^3 \approx 16.7$ million colors can be represented on screen. The choice of 8 bits per channel is therefore more than enough to represent most colors.

7b:

`Serial.parseInt()` returns the first integer number received on the serial.

7c: Entering the message 110,100,100

Also refer to the code `7_ascii_enc_str`.



The screenshot shows the Arduino Serial Monitor interface. At the top, there are tabs for "Output" and "Serial Monitor" with an "X" button. Below the tabs, a text input field contains the placeholder "Message (Enter to send message to 'Arduino Uno' on 'COM4')". Underneath the input field, the text output is displayed in two lines: "12:17:02.022 -> Enter 3 comma-separated integers between 0-255:" and "12:17:05.004 -> Red: 110 Green: 100 Blue: 100".

7d:

Refer to the code `7_ascii_enc_str`.