

App Designer

The screenshot shows a web browser window with the URL `www.mathworks.com/products/new_products/latest_features.html`. The page title is "R2016a at a Glance" with a sub-header "New Releases". A search bar is visible in the top right. The main content area features several product highlights:

- Release Highlights**: A section with three sub-highlights:
 - MATLAB Live Editor**: Accelerate the way you work in MATLAB. Includes a "Learn more" link.
 - App Designer**: Develop MATLAB applications with an enhanced design environment and UI component set. This highlight is enclosed in a red rectangular border. It includes a "Learn more" link.
 - Deep Learning**: Use deep learning for image classification problems. Includes a "Learn more" link.
- Other Highlights**: Below the main highlights, there are three more sections:
 - Fixed-step**: Shows a Simulink block diagram with a "Fixed-step" block.
 - OS Scheduler**: Shows a Simulink block diagram with an "OS Scheduler" block and a "CPU Utilization" plot.
 - Navigation**: Shows a Simulink block diagram with a "Navigation" block and various gauges.

Supported interfaces



- Serial (COM)
- TCP/IP

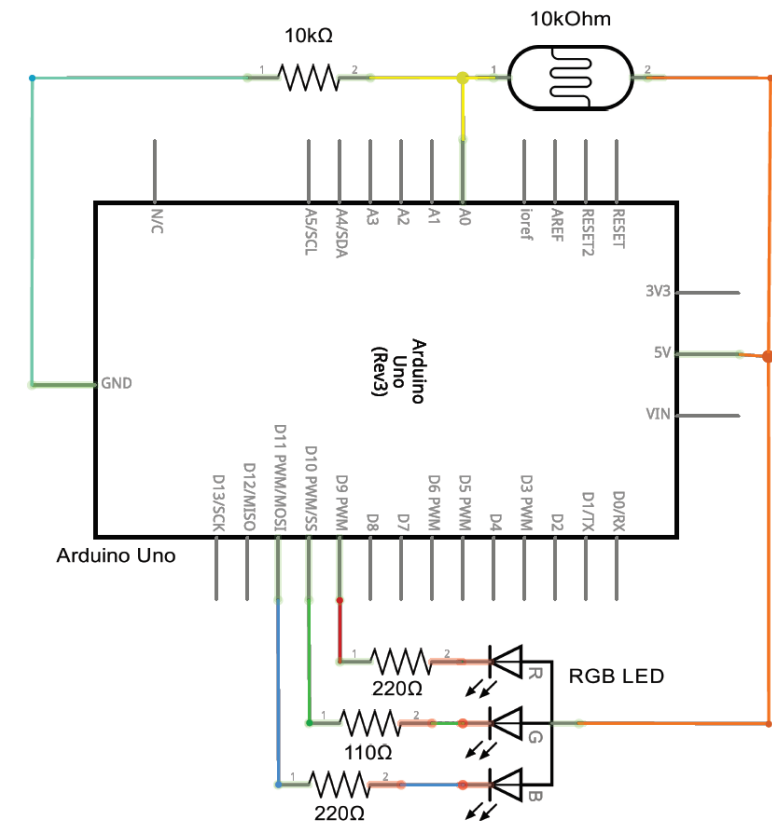
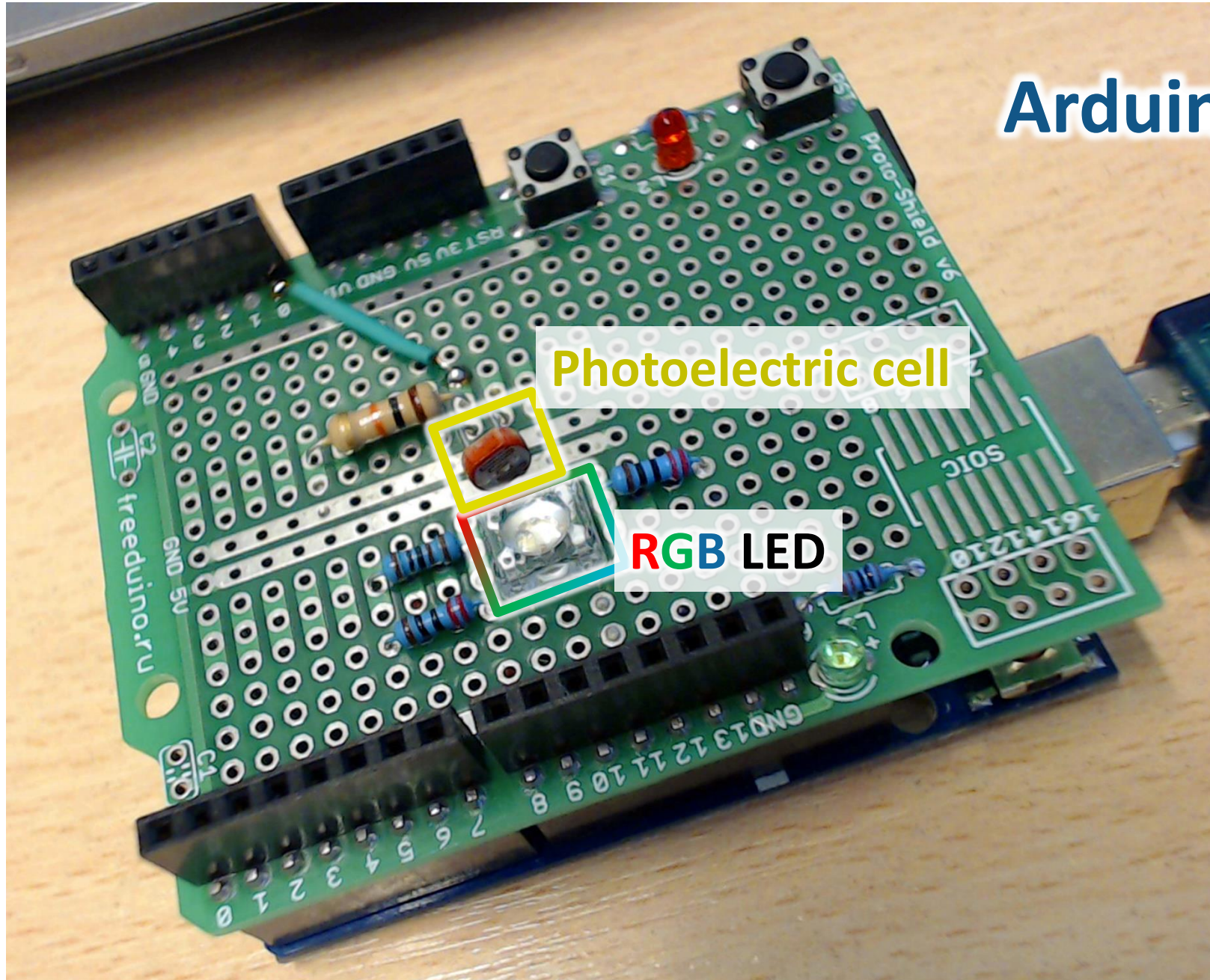
Instrument Control Toolbox

Control and communicate with test and measurement instruments

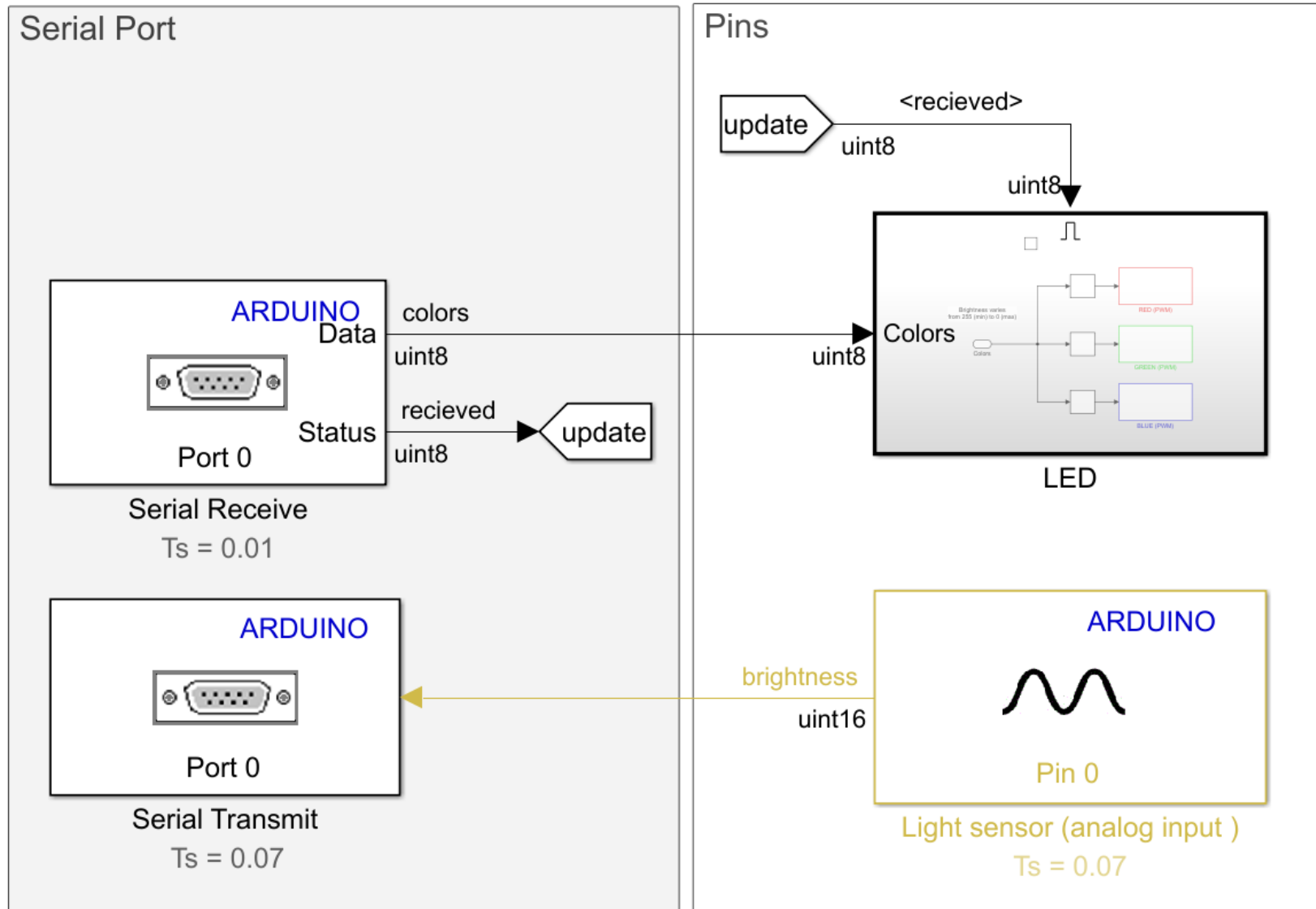
- +Serial
- +TCP/IP, UDP
- I2C, SPI
- Bluetooth
- GPIB, VISA
- Custom interface



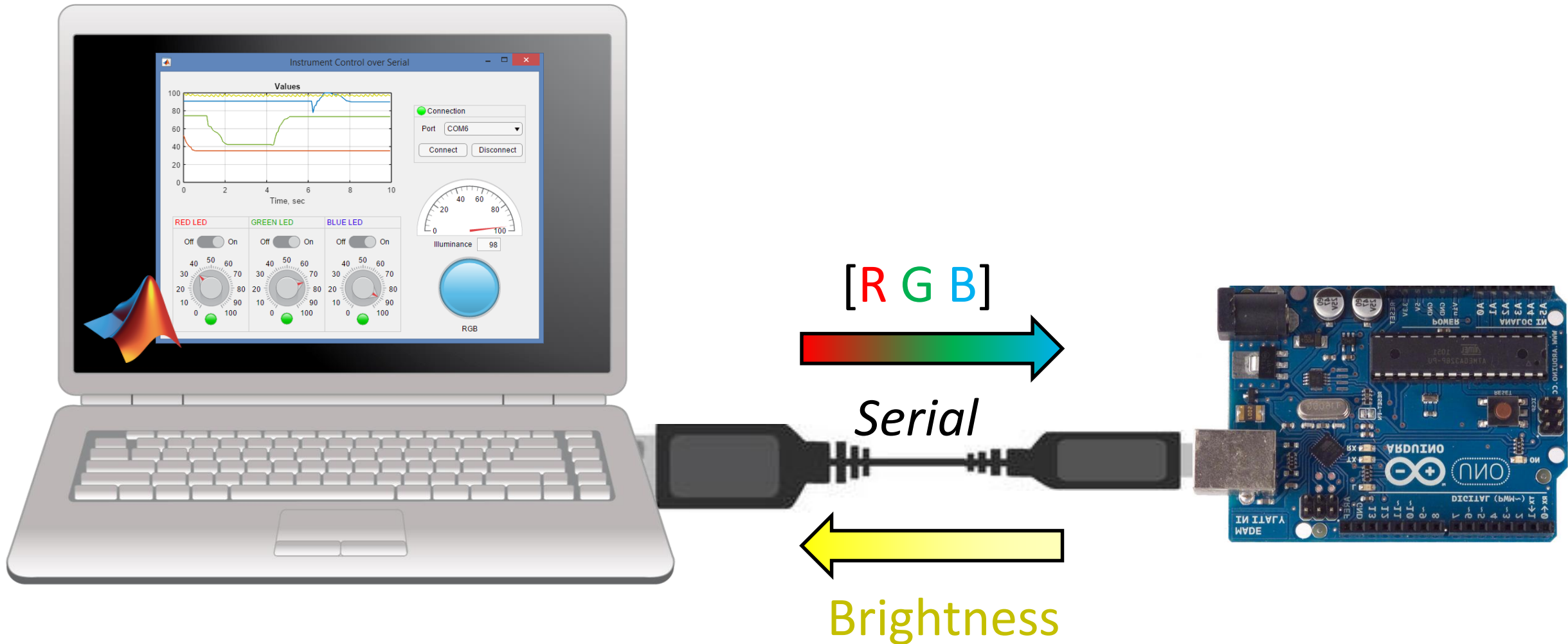
Arduino Uno + Shield



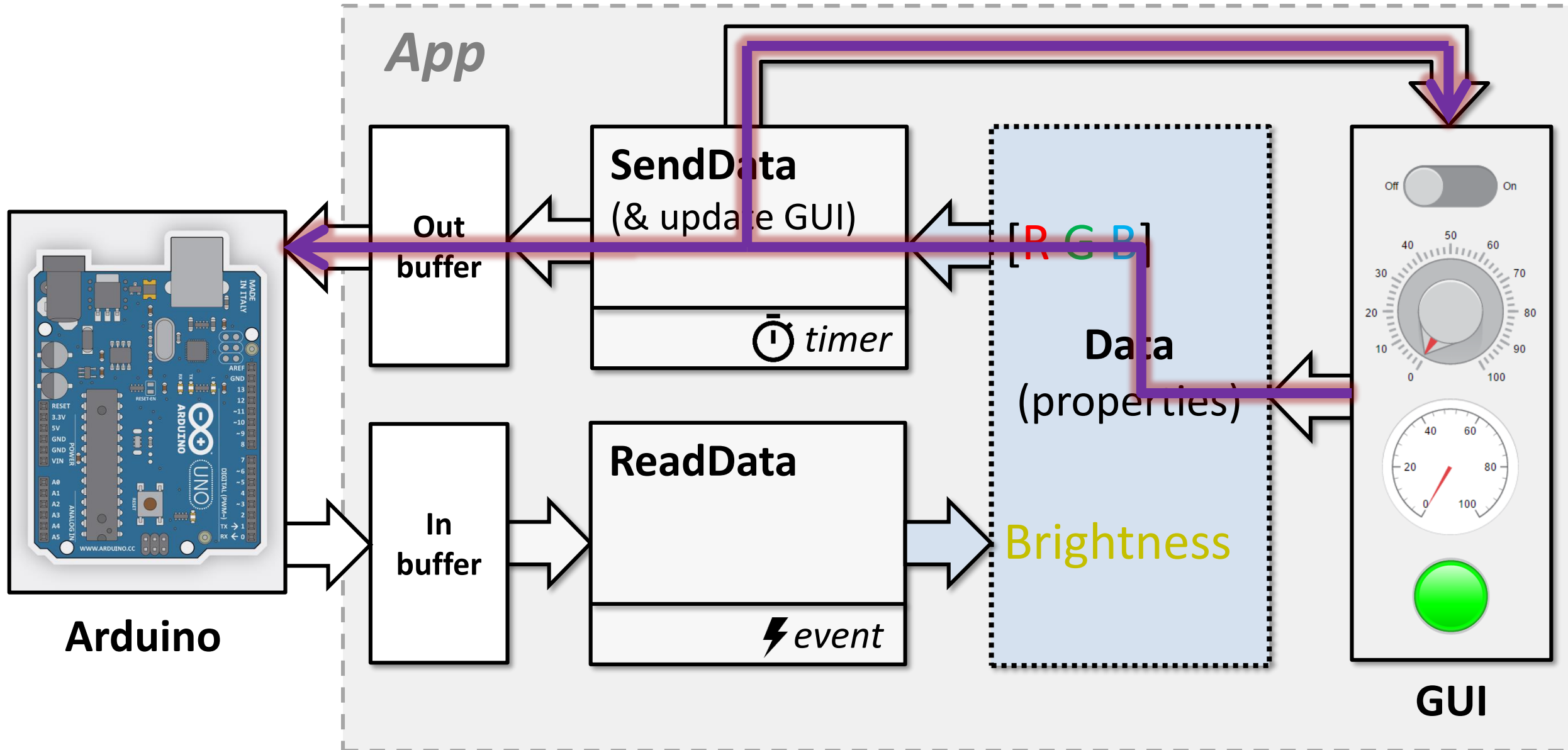
Arduino program in Simulink



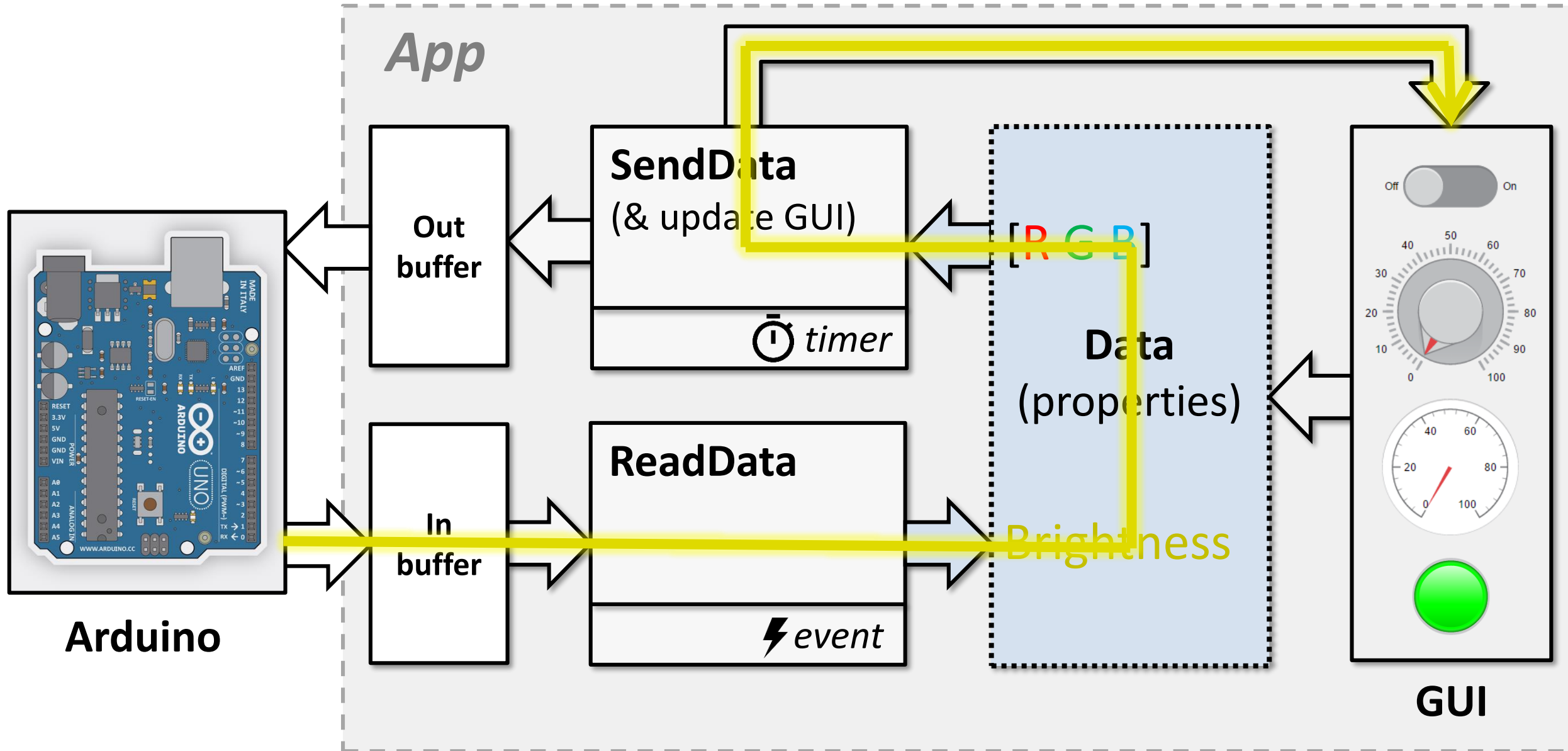
Instrument Control over Serial



Program algorithm (RGB control)



Program algorithm (brightness measurement)



On MATLAB Central File Exchange



App Designer: Instrument Control over Serial (Arduino example)

version 2.3.2 (2.75 MB) by Pavel Roslovets

Example of using App Designer for building application to control hardware (i.e. Arduino) over Serial

★★★★★ 3 Ratings

66 Downloads ⓘ

Updated 30 Mar 2017

[View License](#)

- <http://www.mathworks.com/matlabcentral/fileexchange/57168-app-designer--instrument-control-over-serial--arduino->

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