



SIGGRAPH 2023
LOS ANGELES+ 6-10 AUG

SIGGRAPH 2023

The 50th International Conference & Exhibition On Computer Graphics & Interactive Techniques.

Labs Hands-On Class:

Reactive Visuals in P5.js with Custom Analog and Digital Inputs

https://s2023.siggraph.org/presentation/?id=gensub_250&sess=sess314

Dr Kieran Nolan, Creative Arts Research Centre, Dundalk Institute of Technology

Kieran Nolan. 2023. Reactive Visuals in P5.js with Custom Analog and Digital Inputs. In ACM SIGGRAPH 2023 Labs (SIGGRAPH '23). Association for Computing Machinery, New York, NY, USA, Article 8, 1-2.
<https://doi.org/10.1145/3588029.3599742>

Notes and Resources:

9th August 2023

Dear all,

You can find the extended abstract for this project (including step by step instructions) as a free download at:

<https://dl.acm.org/doi/10.1145/3588029.3599742>

<https://dl.acm.org/doi/pdf/10.1145/3588029.3599742> (direct PDF link)

Kind regards,

Kieran

kieran.nolan@gmail.com

kierannolan.com

How to upload the firmware to your Pico:

- Download the .uf2 firmware file from this GitHub repository to your hard drive.
- Plug the Pi Pico into your computer while holding down the button on the Pico.
- Release the button on the Pico. The Pico will show up as a USB drive.
- Copy the firmware file over to the Pico drive.
- The Pico will disappear from your list of hard drives. This means it's now updated with the new firmware and is working.
- You don't have to repeat this process again, the firmware will stay on the Pico.

The source .ino file is included also for anyone who wants to edit it for their own project.

- **Download P5 Serial Control from:**
<https://github.com/p5-serial/p5.serialcontrol/releases/tag/0.1.2>
- When you copy the backup files from this repository to your new sketch at editor.p5js.org, make sure to copy over the contents of index.html as well as sketch.js. To see index.html in editor.p5js.org, click the arrow beside sketch.js on the top left.
- Also change the COM port number on line 46 to match the COM port shown by P5 Serial Control.
- **Breadboard Wiring Instructions:**

Red Wire 1:	I5 to B28.
Red Wire 2:	J5 to F26.
Black Wire 1:	J8 to F22.
Black Wire 2:	J18 to B24.
Green Wire:	J10 to F24.
Yellow Wire:	J16 to B30.
10k Resistor:	C24 to A30.
Potentiometer:	J22, J24, J26.
Pushbutton:	D28, D30 G28, G30