Pixel Box V2

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Developed by Daniel Flood and William Connor from Pixel Box V1

Summary

Pixel Box is a short - 10-15 minute - community engagement workshop. It has an art focus, basic electronics and a number of possible extension activities. These activities will be listed later in this document as they are developed.

Materials

These materials are per participant if not specified otherwise.

1. 1 x CR2032 Battery
2. 2 x LED (random colours)
3. Laser Cut Housing (see below)
4. Tracing Paper (70x70mm square)
5. Quick Grip Adhesive or Hot Glue Gun
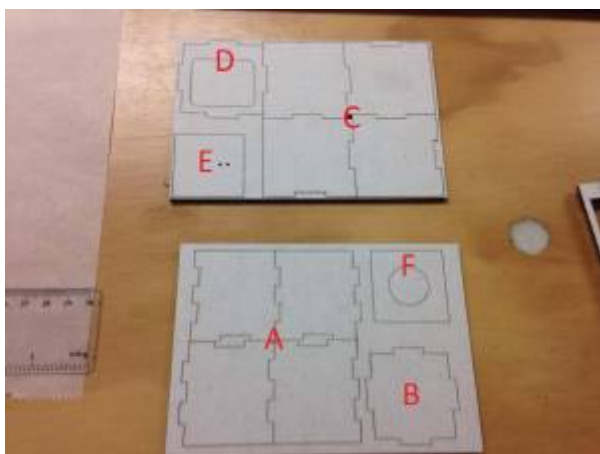6. **Maybe some Scotch tape?**

Tools

None

Instructions

Step Zero:

Prep all material prior to workshop. Ensure sufficient materials for the number of participants.
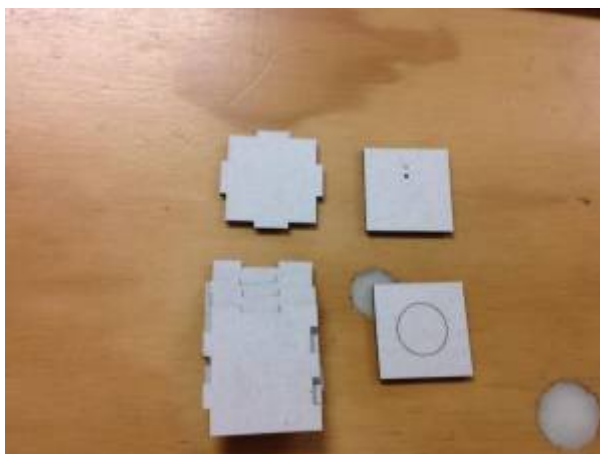
Step One:

Assemble inner box.

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1. Unpack your kit and put the Paper, LED and Battery off to the side of your workspace.
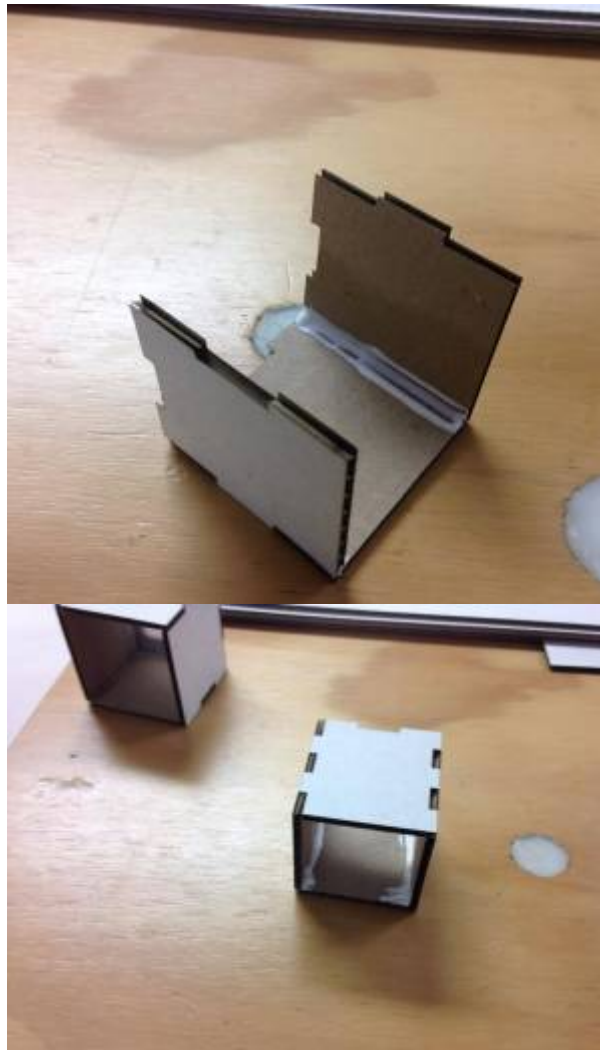
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2. Unpack the laser cut panels shown here.

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3. Pop out panels and arrange accordingly.

4. Take the four A panels and, using glue to hold the panels together, begin to assemble the inner box as shown. **-tip-** If you put the same colour facing outwards, it will be very easy to assemble.

5. Slot the B panel into the grooves at the back of the inner box and fix with glue.
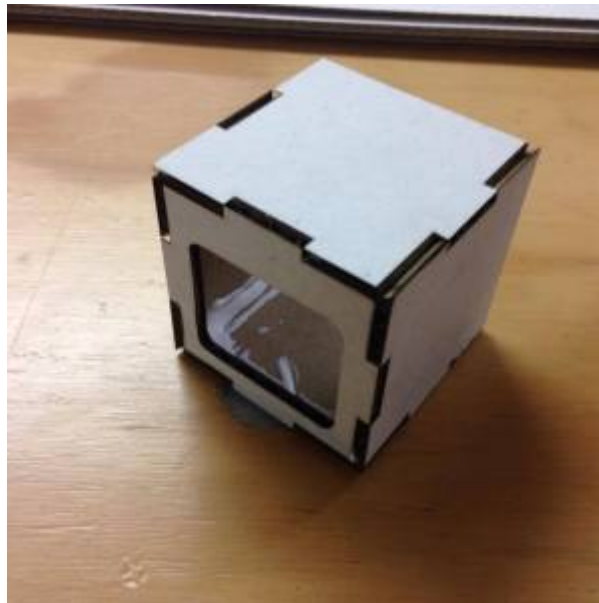
6. Place assembly off to the side for drying.

Step Two:

Assemble outer box.

1. Take the four C panels and, using the same technique as the first box, assemble with glue. Slot the D panel into the grooves on the end.

2. Place assembly off to the side for drying

Step Three:
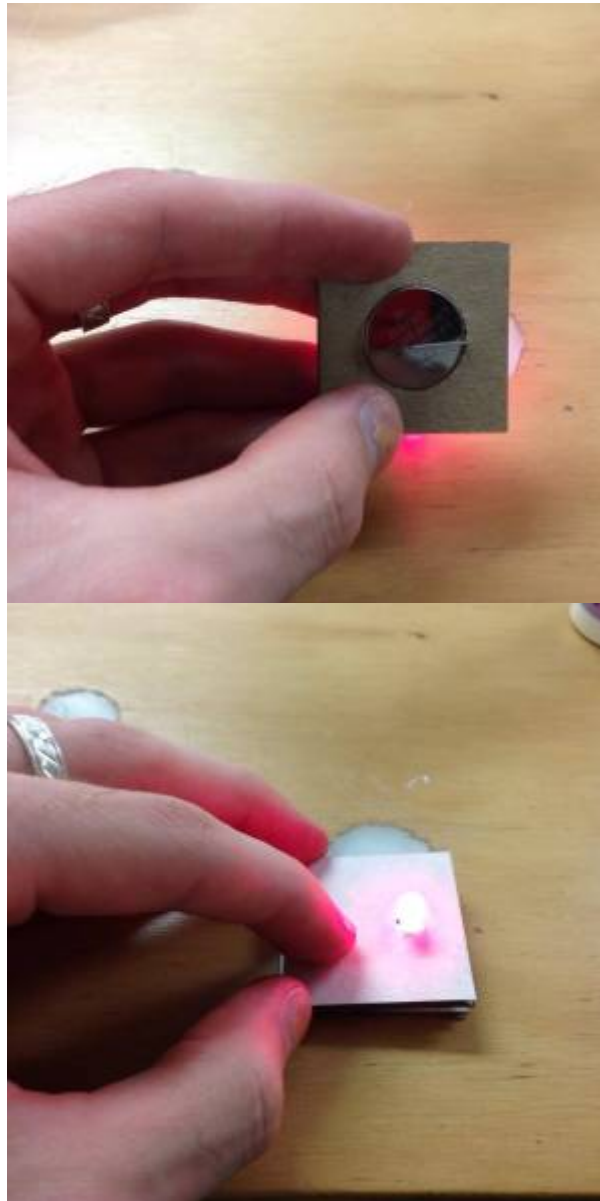
Assemble LED and battery assembly

1. Grab your LED, battery, E and F panels.

2. Slot the LED contacts into the E panel with the longer contact in the outer most hole and place the coin battery into the hole of the F panel (Negative side up).
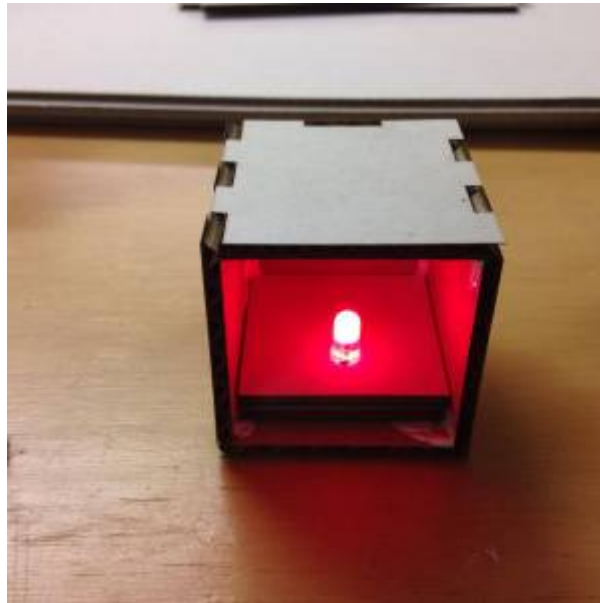

3. Bend the short contact of the LED up to almost flush with the E panel. Attach the F panel to the bottom of the E panel and ensure that the long contact of the LED slips inside the slot next to the coin battery. Bend the long contact up flush against the battery.

Step Four:

Insert LED and Battery assembly into inner box

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1. Slot LED into the inner box.

Step Five:

Wrap tracing paper over open face of inner box

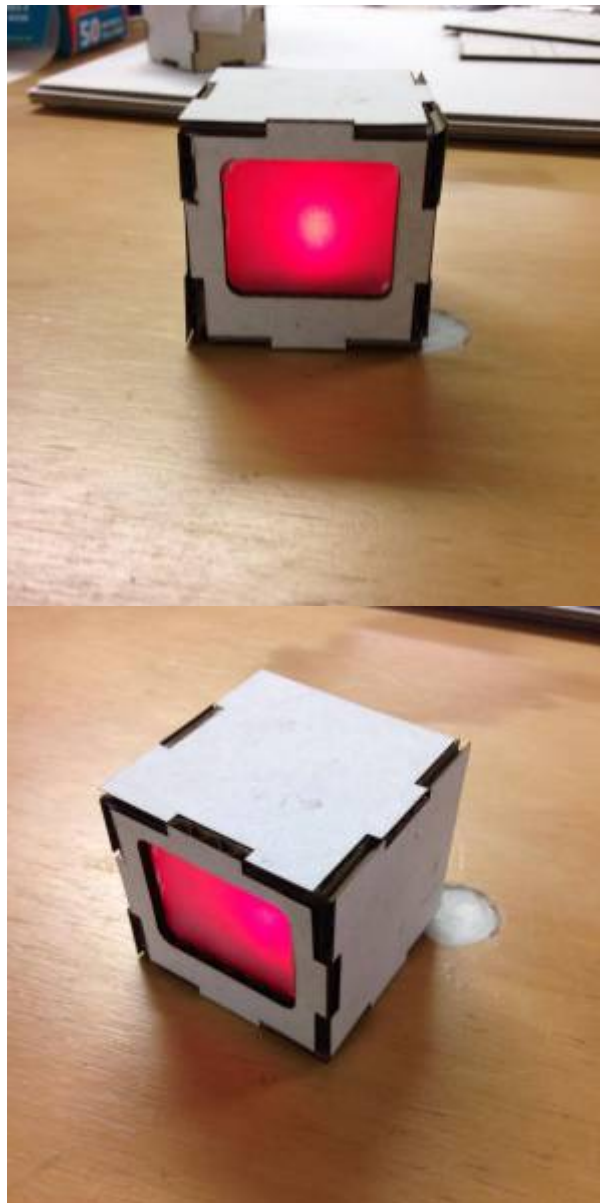**1.** Take your tracing paper and ensure that it is flat and straight.

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2. Wrap your paper over the exposed side of the inner box. **-Tip-** wrap it similarly to a gift at the corners to make the next step easier and ensure an even spread of your paper. **maybe use some Scotch Tape to hold in place?**

Step Six:

Slide inner box into outer box.

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1. Take your inner box and slide it into the outer box. Ensure that the paper side is facing the D panel. Pay particular attention to the orientation of the D panel's opening and ensure that your LED is on the "Bottom of the opening" for that TV look.

Files

This is the most recent file laid out.

pixel_box_004_final.cdr