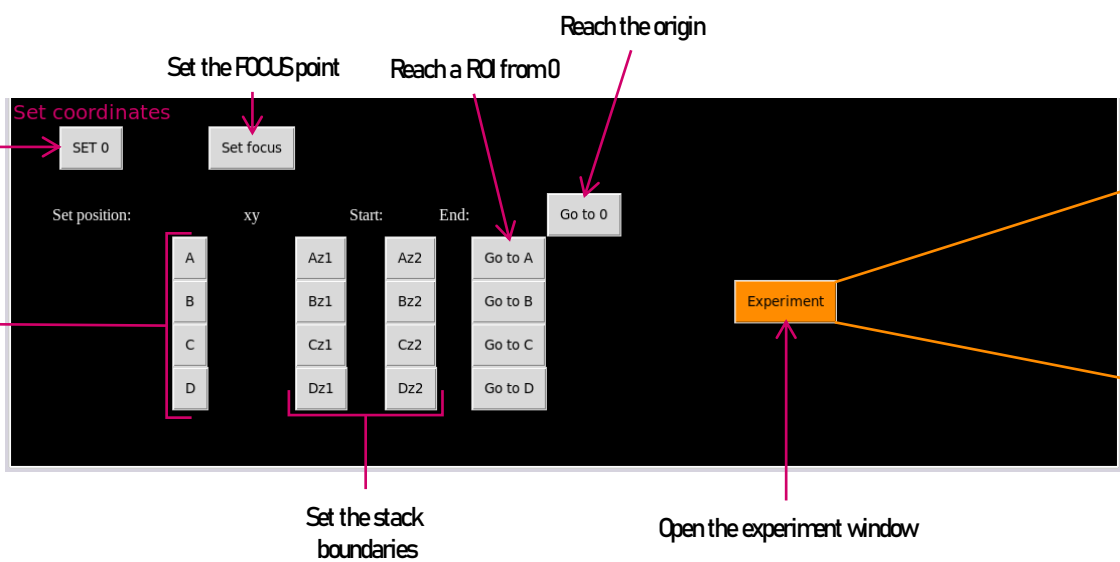
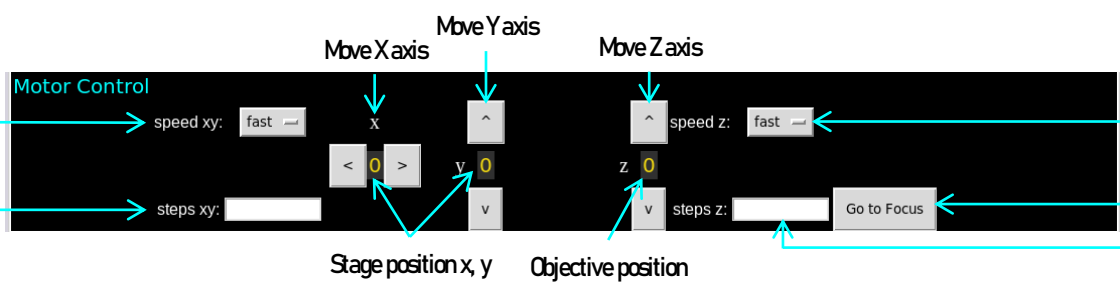
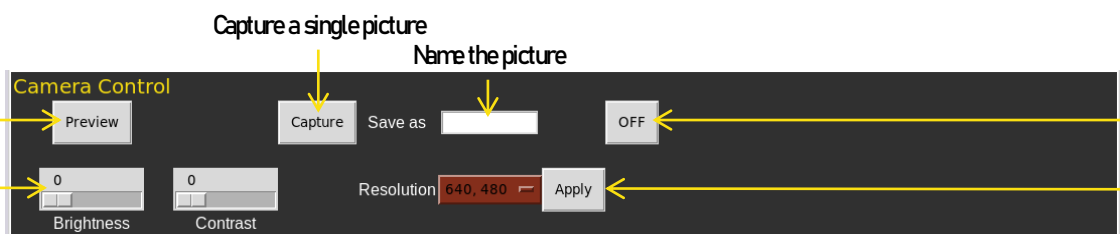
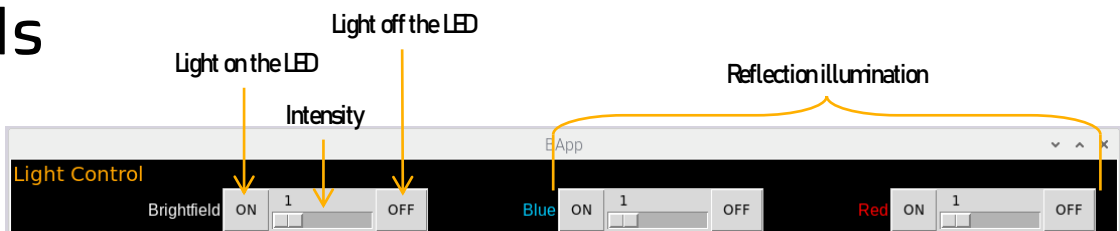


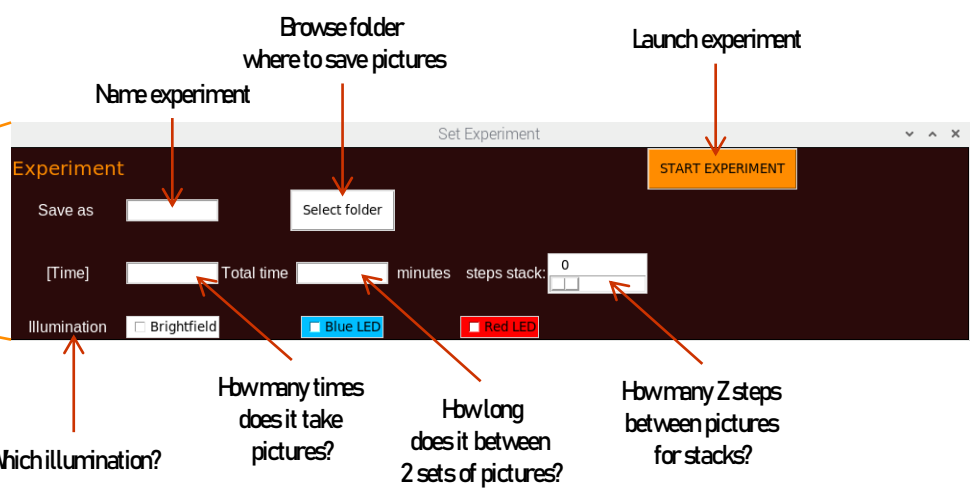
# BApp details



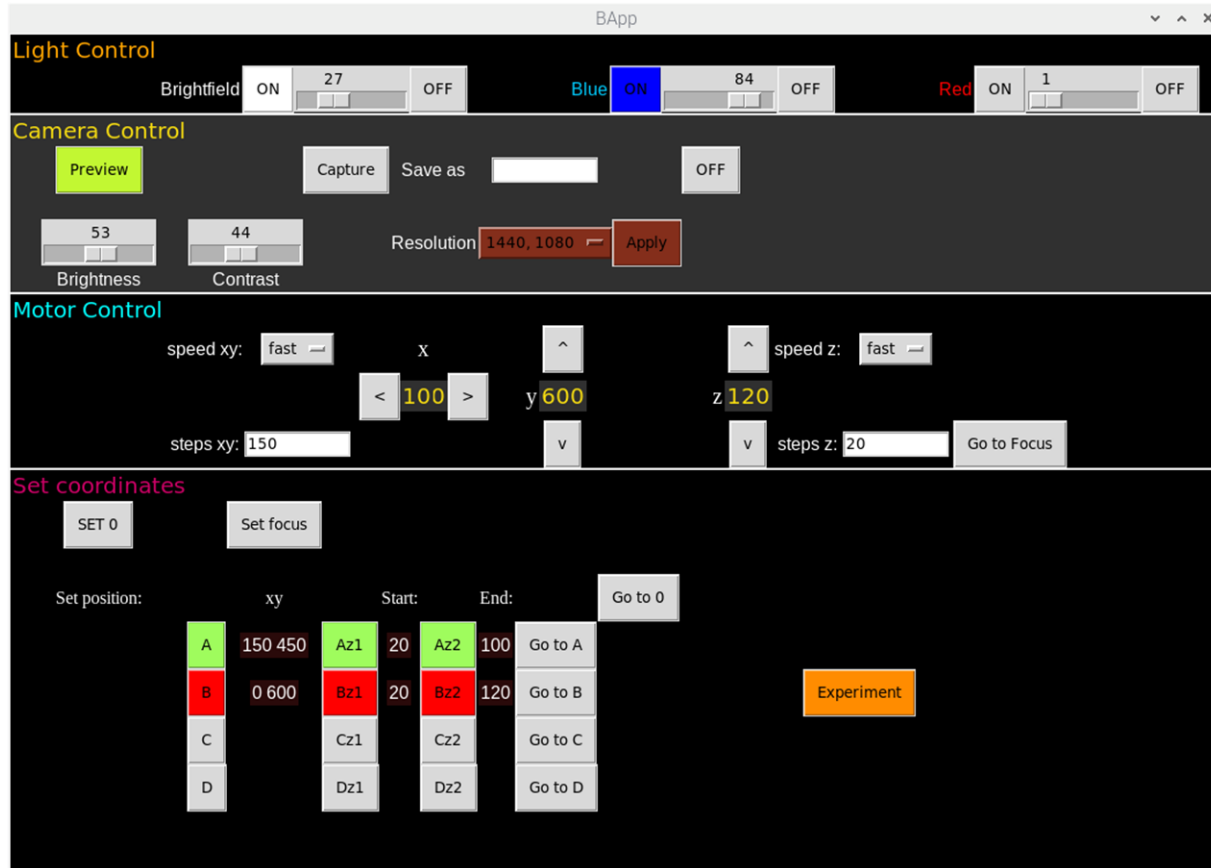
**XY AXIS:**  
The stage control is based on a relative origin that the user defines. It is also called 0. The ROI coordinates are relative to the 0 and each other (the A depends on the 0, the B on the A, the C on the B...). The user should choose A as first ROI, B as second...

**Z AXIS:**  
The FOCUS point correspond to the lowest point of z axis. During an experiment, the z goes back to the FOCUS before changing xy position (to preserve the objective). It is important to wisely choose the FOCUS point to not loose too much time between ROIs.

**STACKS:**  
As the z axis goes from the bottom to the top, the z1 position should be lower than the z2. Moreover, z1 should be defined before the z2.



# Example:



Both LED (brightfield and blue) are light on. They have different intensities (brightfield: 27, blue: 84).

The camera preview is visible. Brightness and contrast have been adjusted. The current image resolution is 1440x1082.

The stage is at the position [100;600] relatively to the origin point and the z is 120 steps higher than the FOCUS point.

2 ROI are defined:

- point A[150;450], stack starts at 20 and ends at 100.
- point B[0;600], stack starts at 20 and ends at 120.

The pictures will be named as:

protoplastes\_A\_20200822\_1605\_90

And be saved in /home/pi/Desktop/Experiments

Stacks will be made 3 times + at t=0 and at the end of the total time in 10min.

Z motor will make 10steps between each pictures for stacks.

The pictures are taken with brightfield illumination.

