

main() function
1.Process command line arguments, create cap()
2.Create an object for inter-process communication - Pipe() = p

read_frames(p, window_size=W, camera=cap)
1. Read in a batch of W frames from live camera cap() at a rate of FPS for a period of FPS*W seconds
2. Write the $(n+1)^{th}$ batch of frames to p

Pipe() p
buffer
Holds the n^{th} window of W frames

stabilize_frames(p, crop_window, W)
1. Stabilize n^{th} window of W frames using an offline video stabilization algorithm like L1 optimal cam. paths

display_frames(W, raw, stabilized)
1. Display and or save the $(n-1)^{th}$ window of stabilized frames side by side with raw unstabilized frames

Each grey text box represents a process
Arrows either represent flow of information or a parent-child process relationship