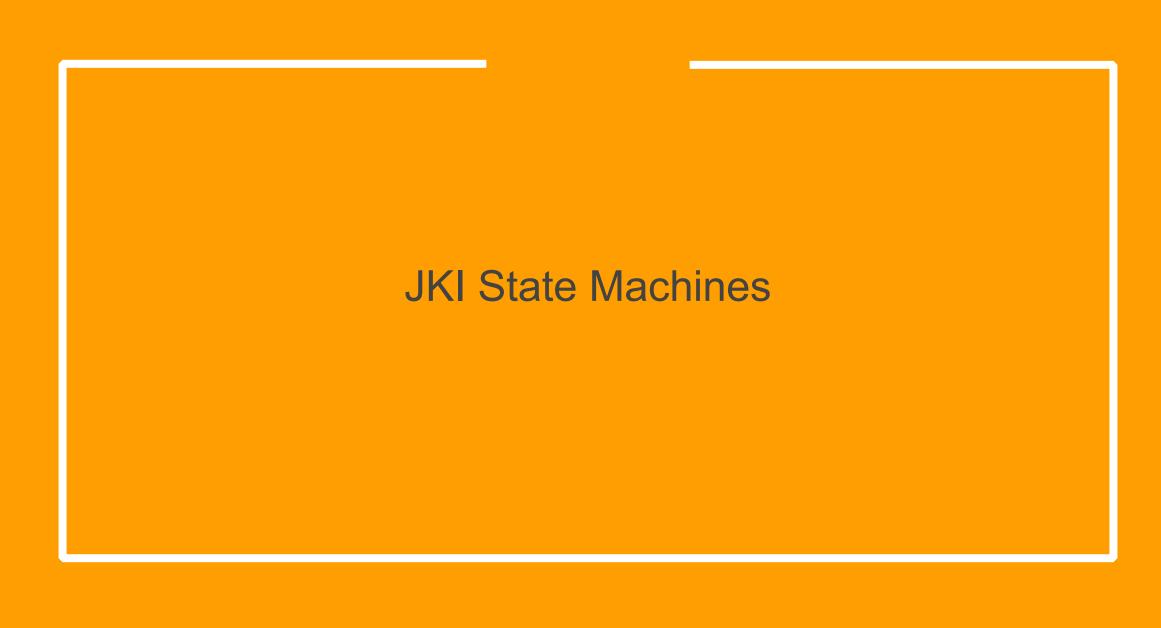
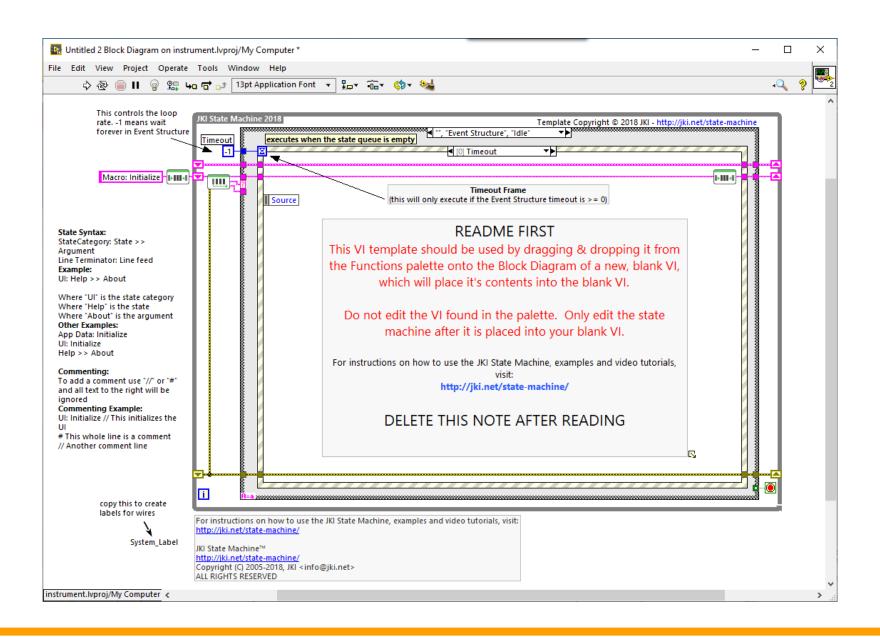
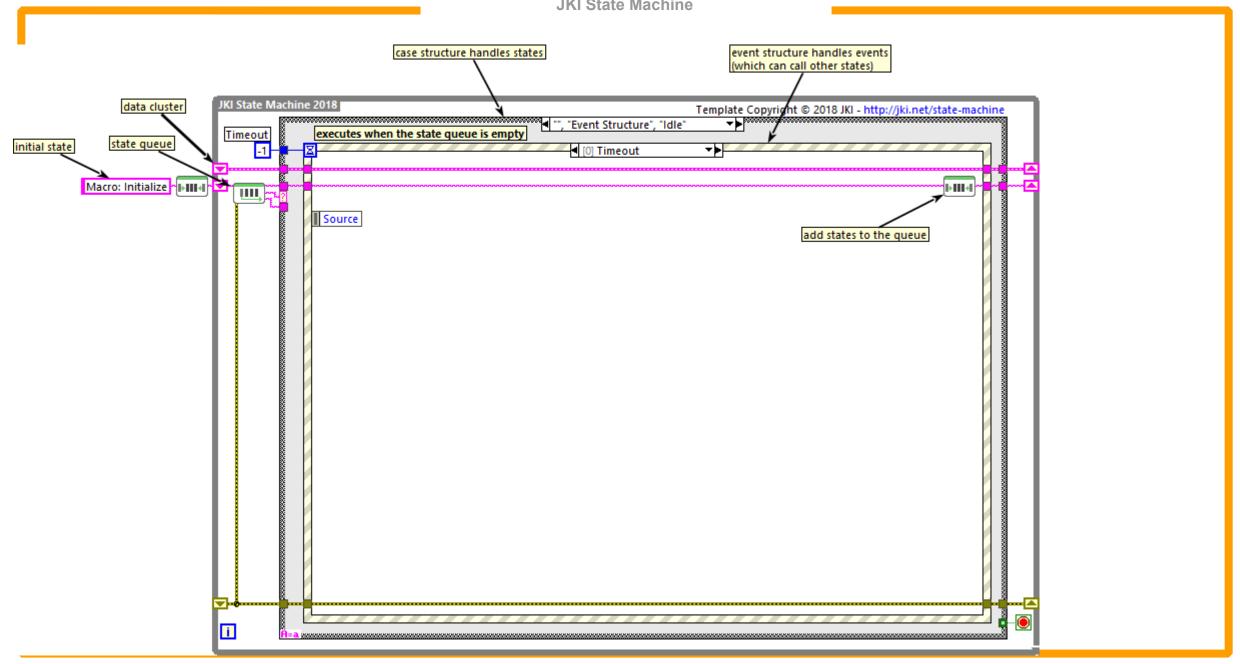
JKI State Machine Objects: Quick Introduction

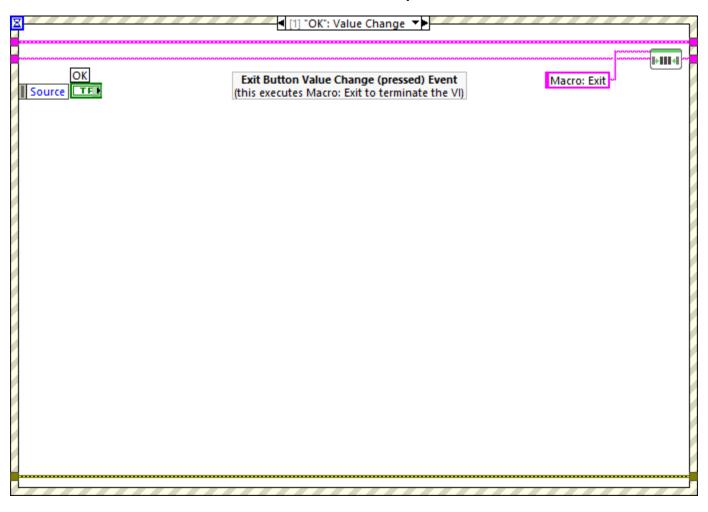
Patrick Irvin, PhD
Department of Physics and Astronomy
University of Pittsburgh



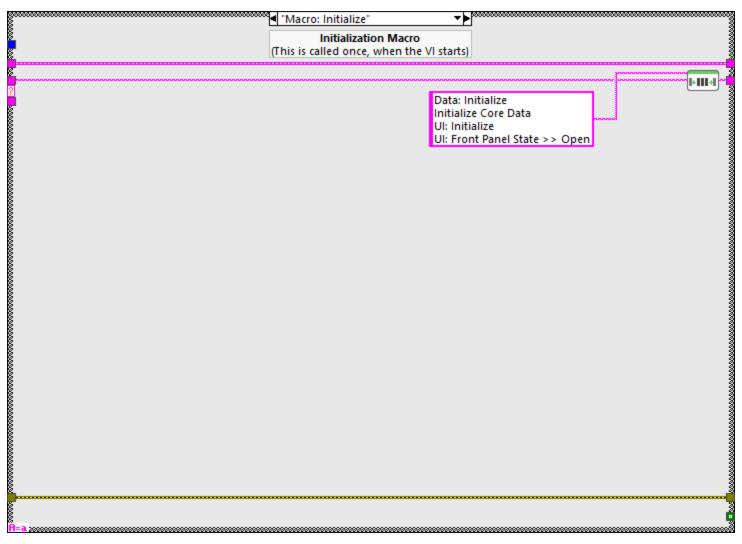


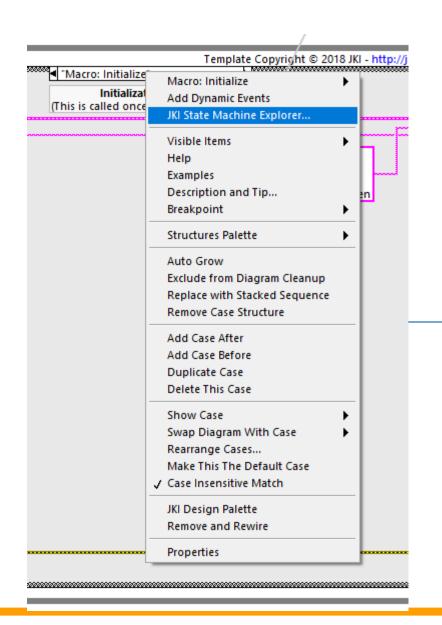


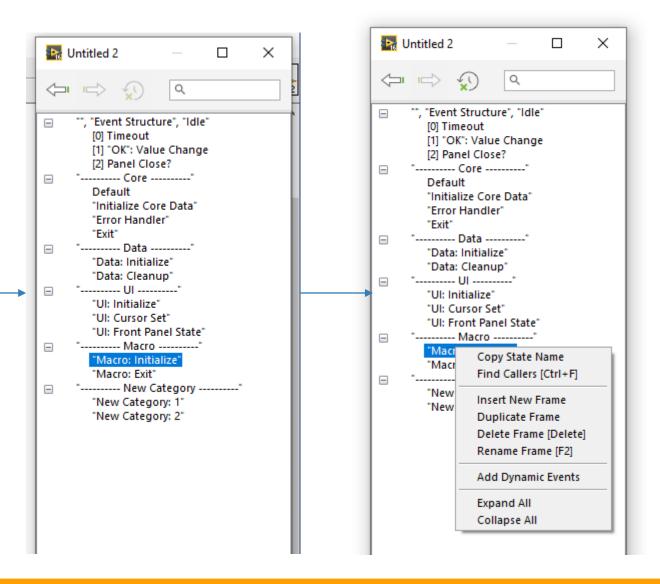
Event example:



State example:





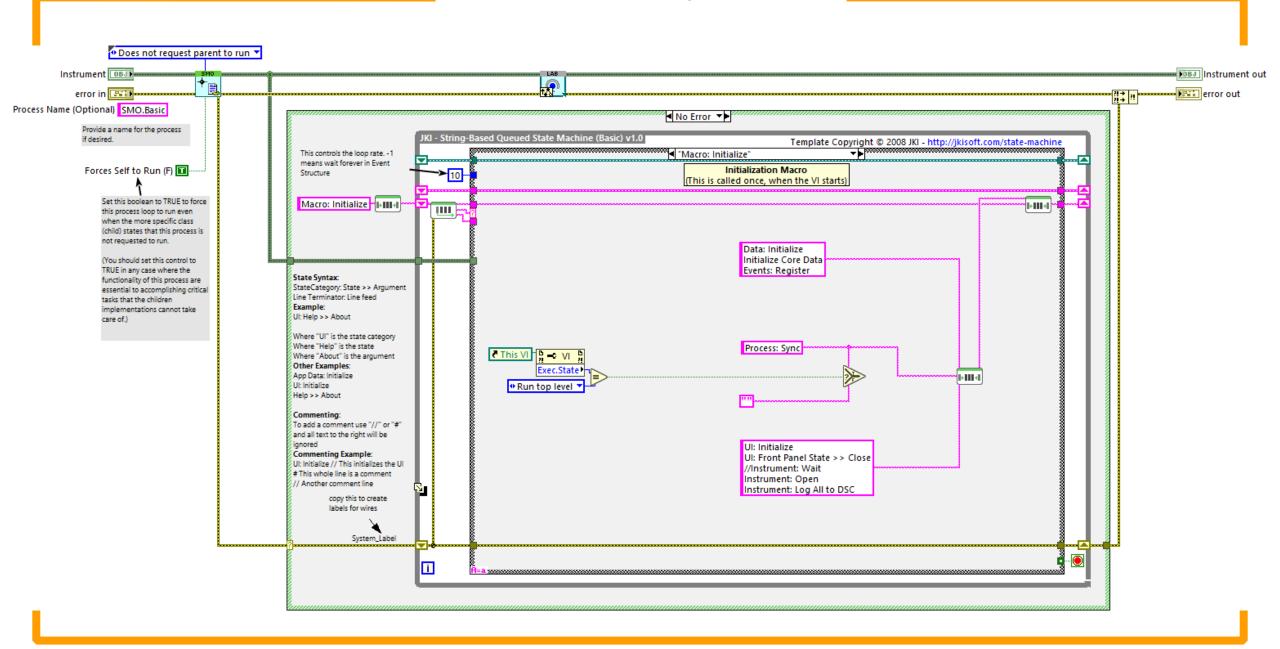


http://blog.jki.net/products/state-machine/jki-state-machine-best-practices

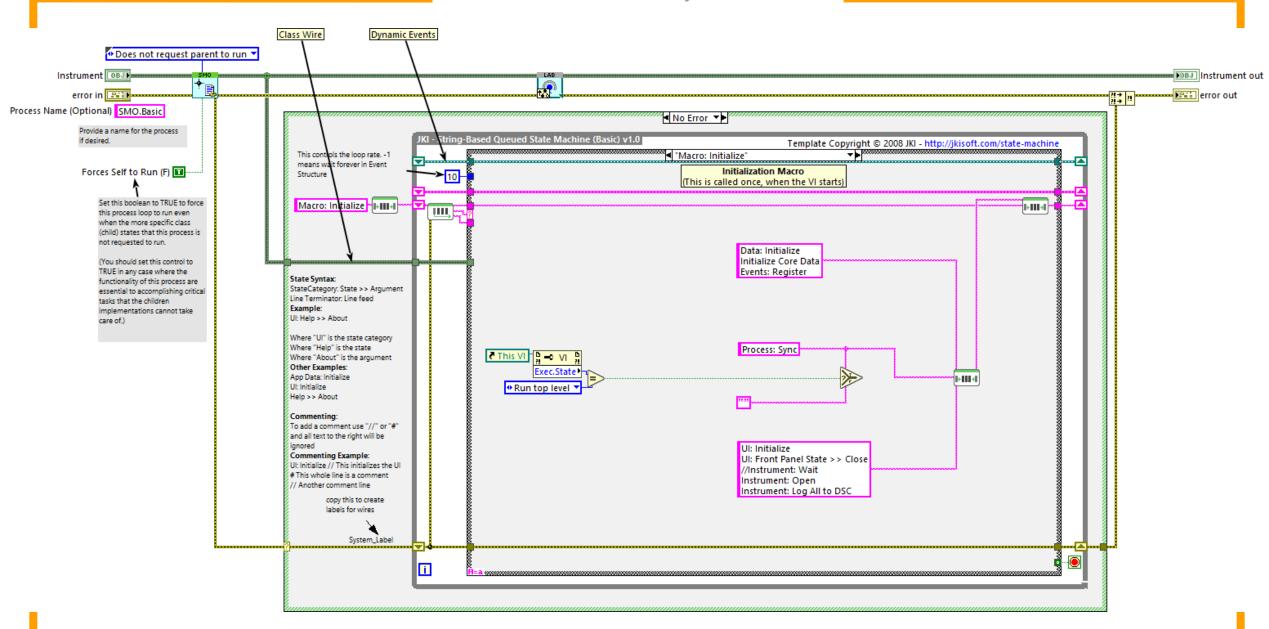
- 1. Don't hide your state strings in subVIs
- 2. Don't add code and logic inside the Event Structure
- 3. Keep the Original Size (i.e. don't grow the structures)
- 4. Use macros instead of "chaining" together sequential states
- 5. Left-justify State Strings instead of Right-justify

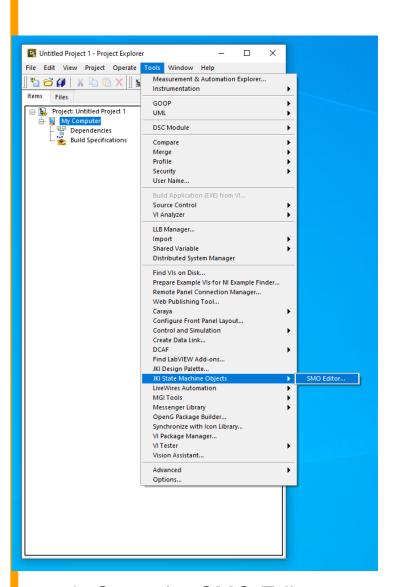


JKI State Machine Objects



State Machine Objects







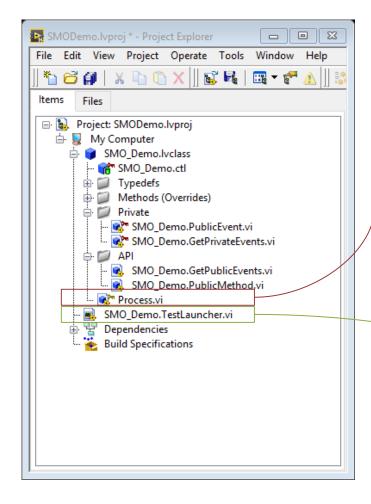
NEW SMO Destination Folder C:\user\patrick\hg\levy_inst_lockin\src <u>~</u> Template SMO.Basic Template Description By value SMO class with very small footprint. It includes a process and a launcher. Select a Project and Target Untitled Project 1.My Computer **New State Machine Object Name** CREATE SMO Show Folder when complete

SMO Editor Tool

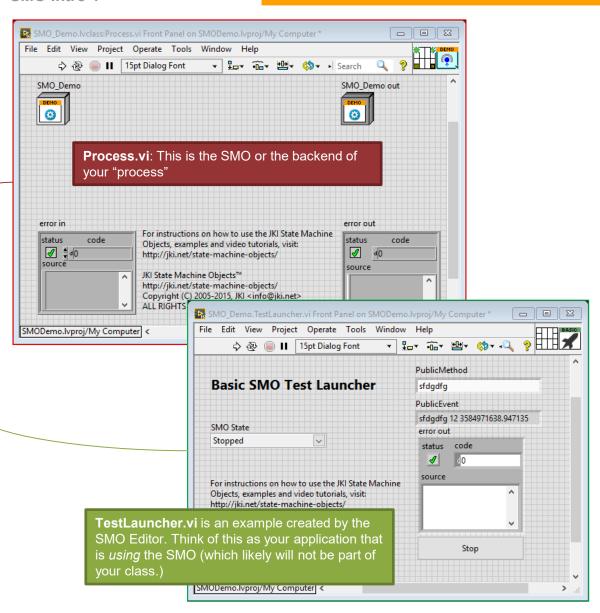
1. Open the SMO Editor

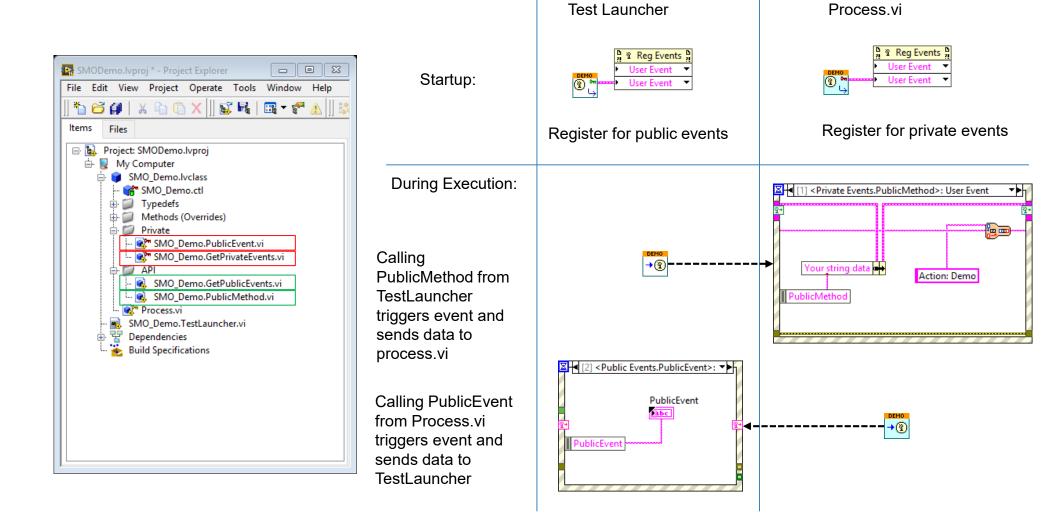
2. Click "New SMO"

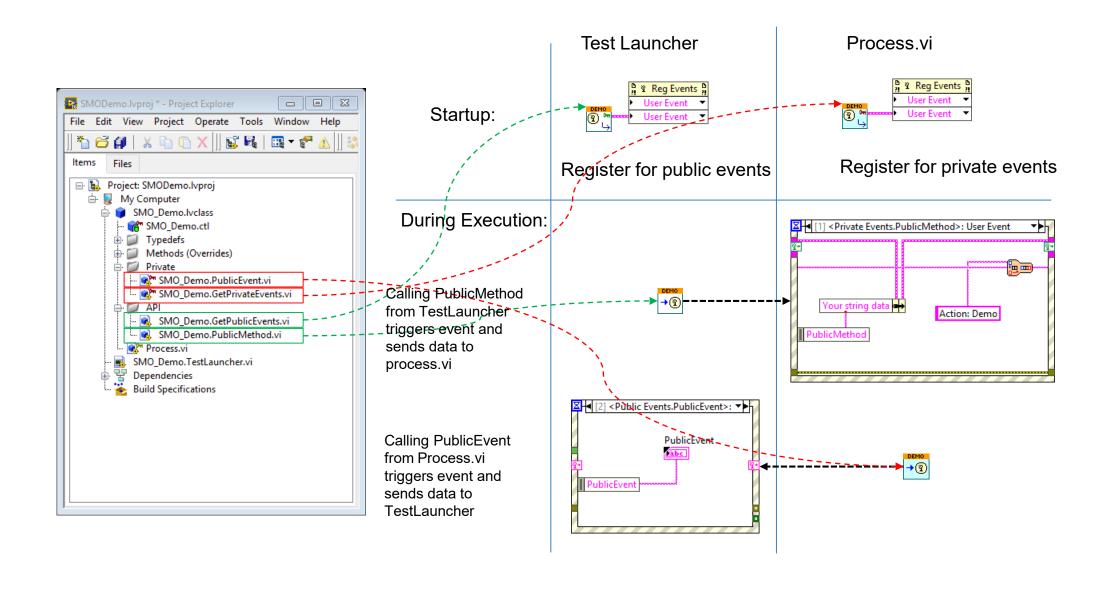
3. Choose SMO Type

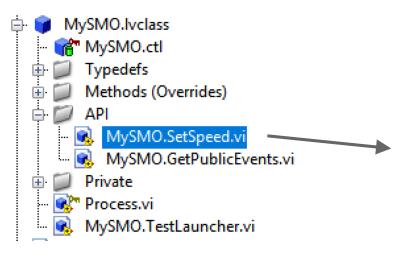


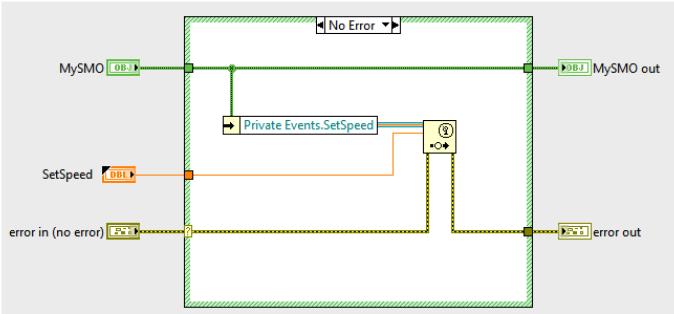
SMO Intro 1

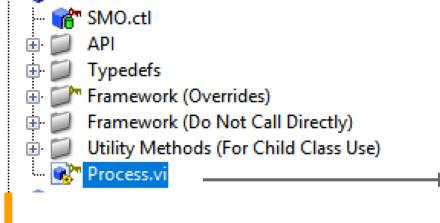




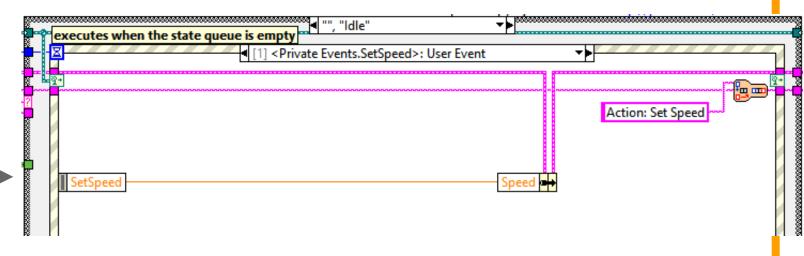




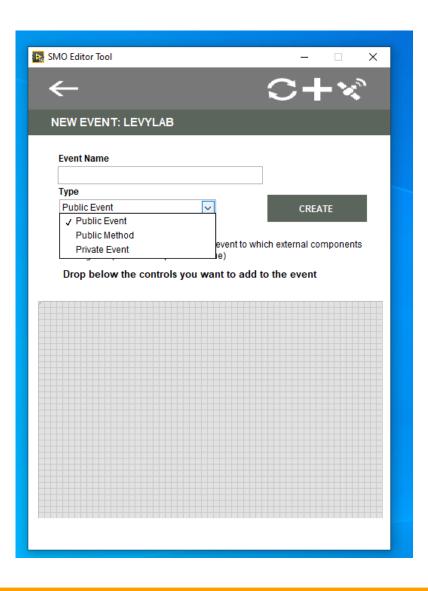




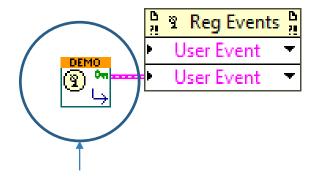
SMO.lvclass



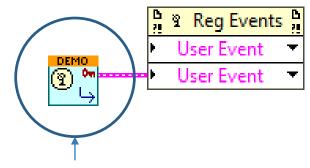
Use SMO Editor to create Public Events and Public Methods



Change your icons to make them useful!



White background = public method



Blue background = private method

