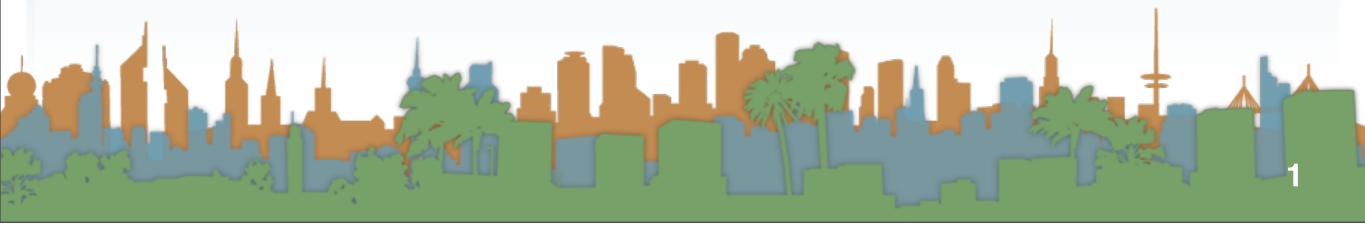
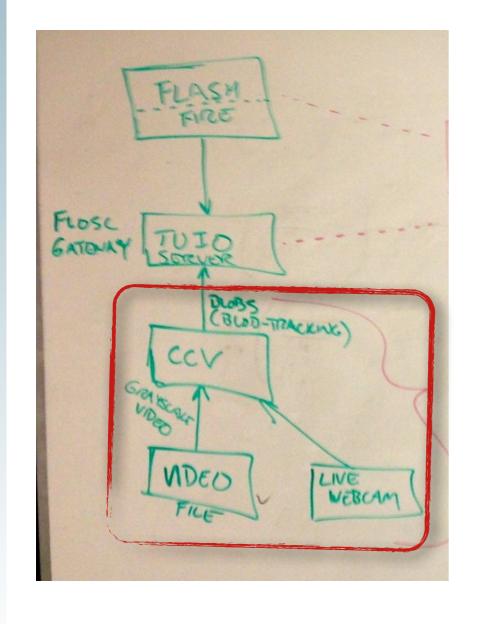
User Interaction: Intro to Multi-Touch

Associate Professor Donald J. Patterson INF 133 Fall 2012

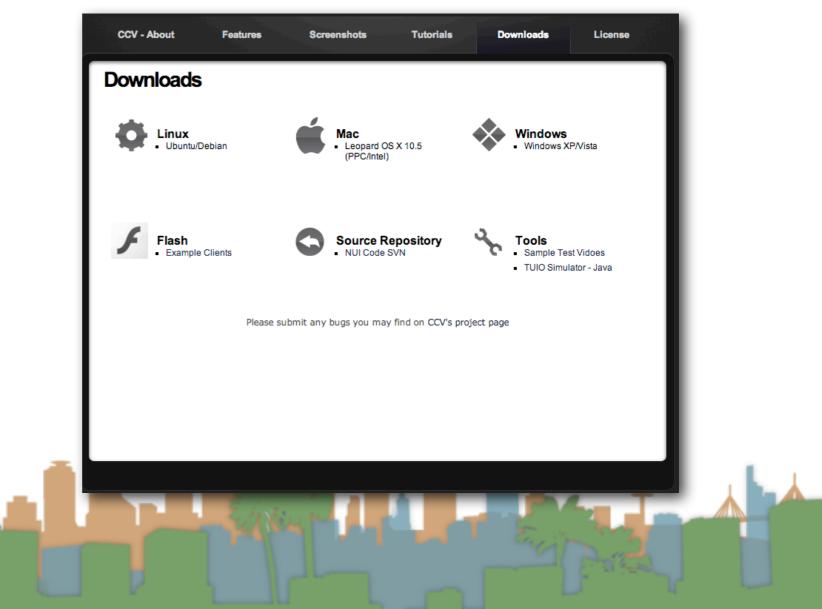


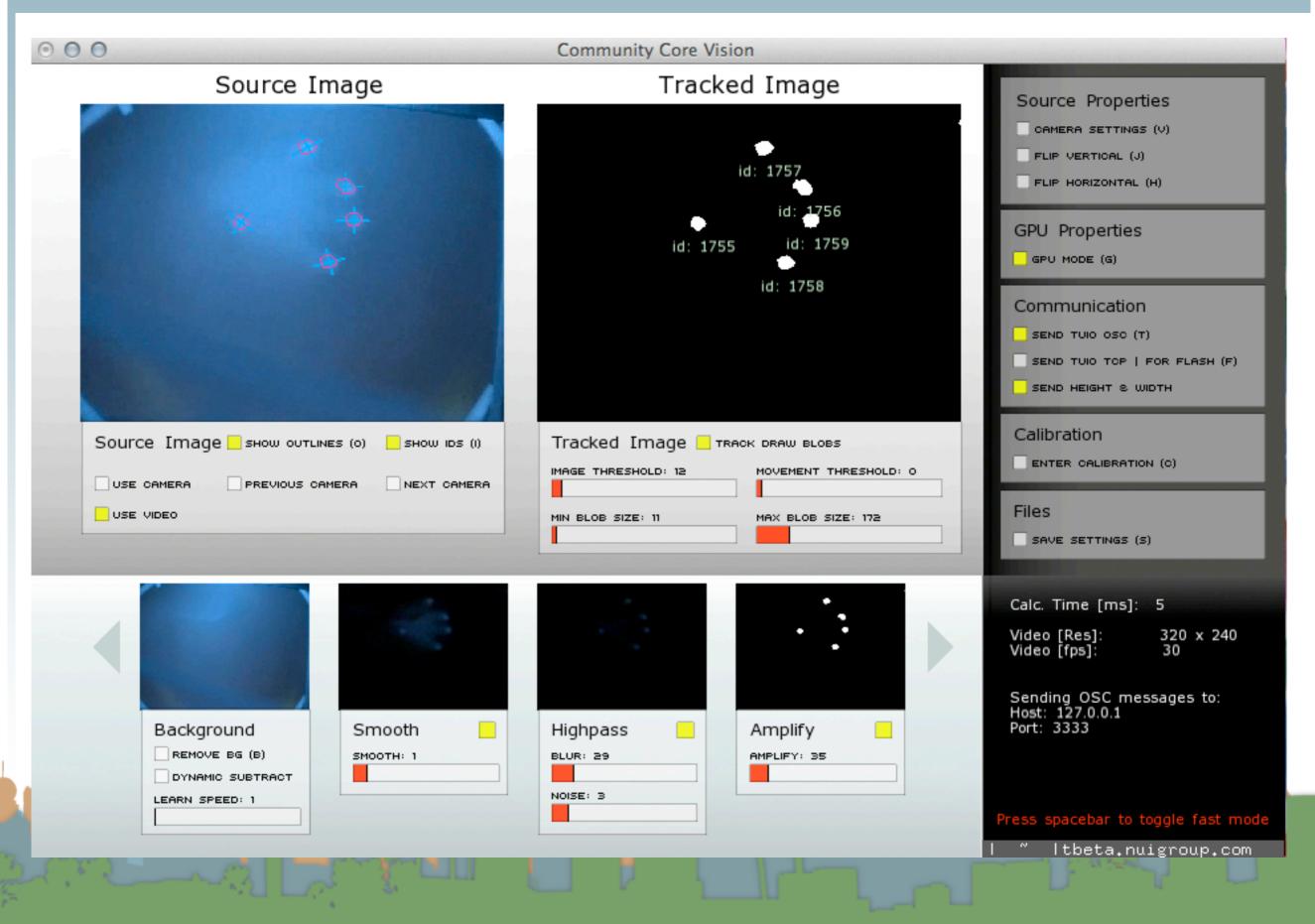
Review Assignment #6

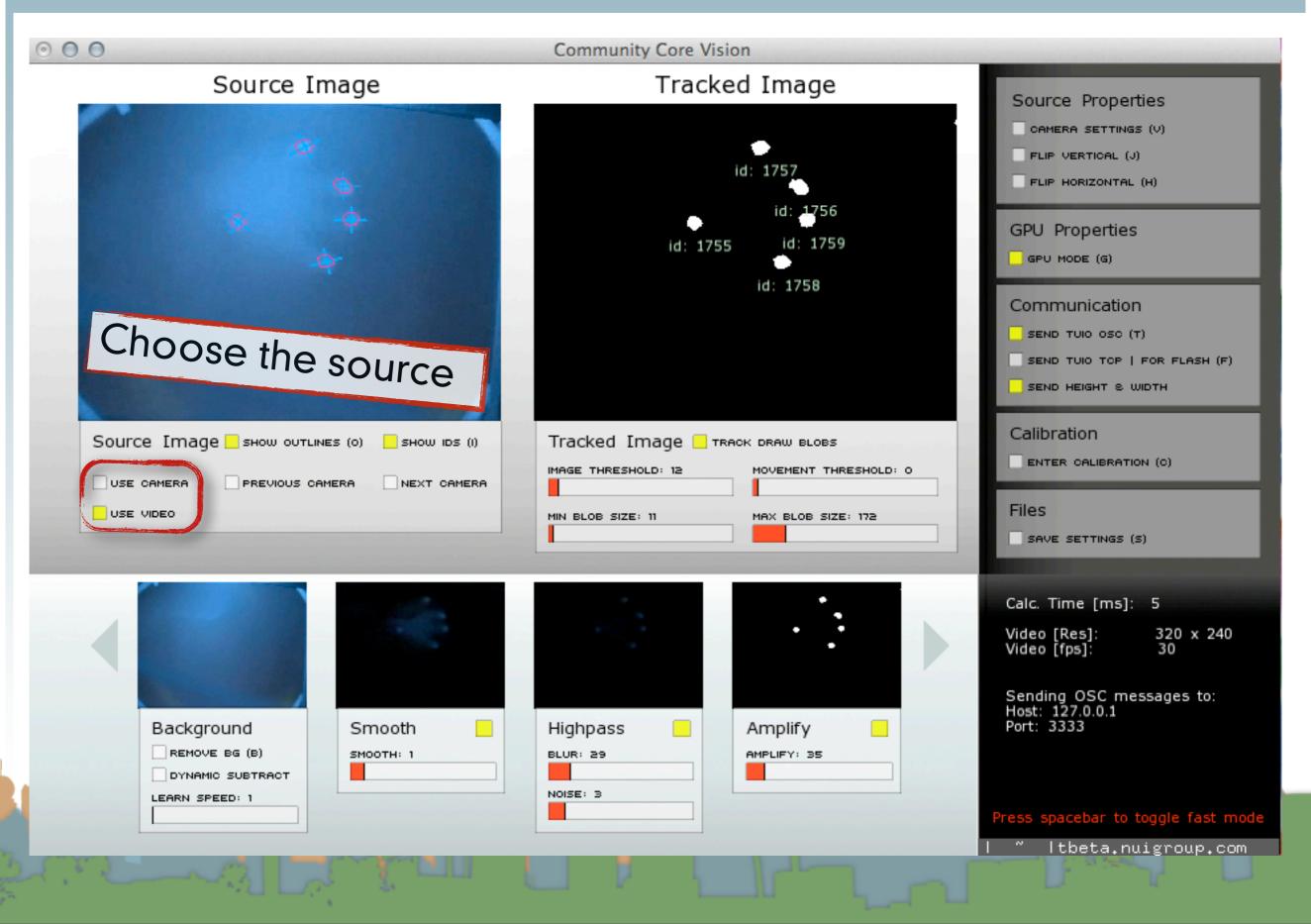


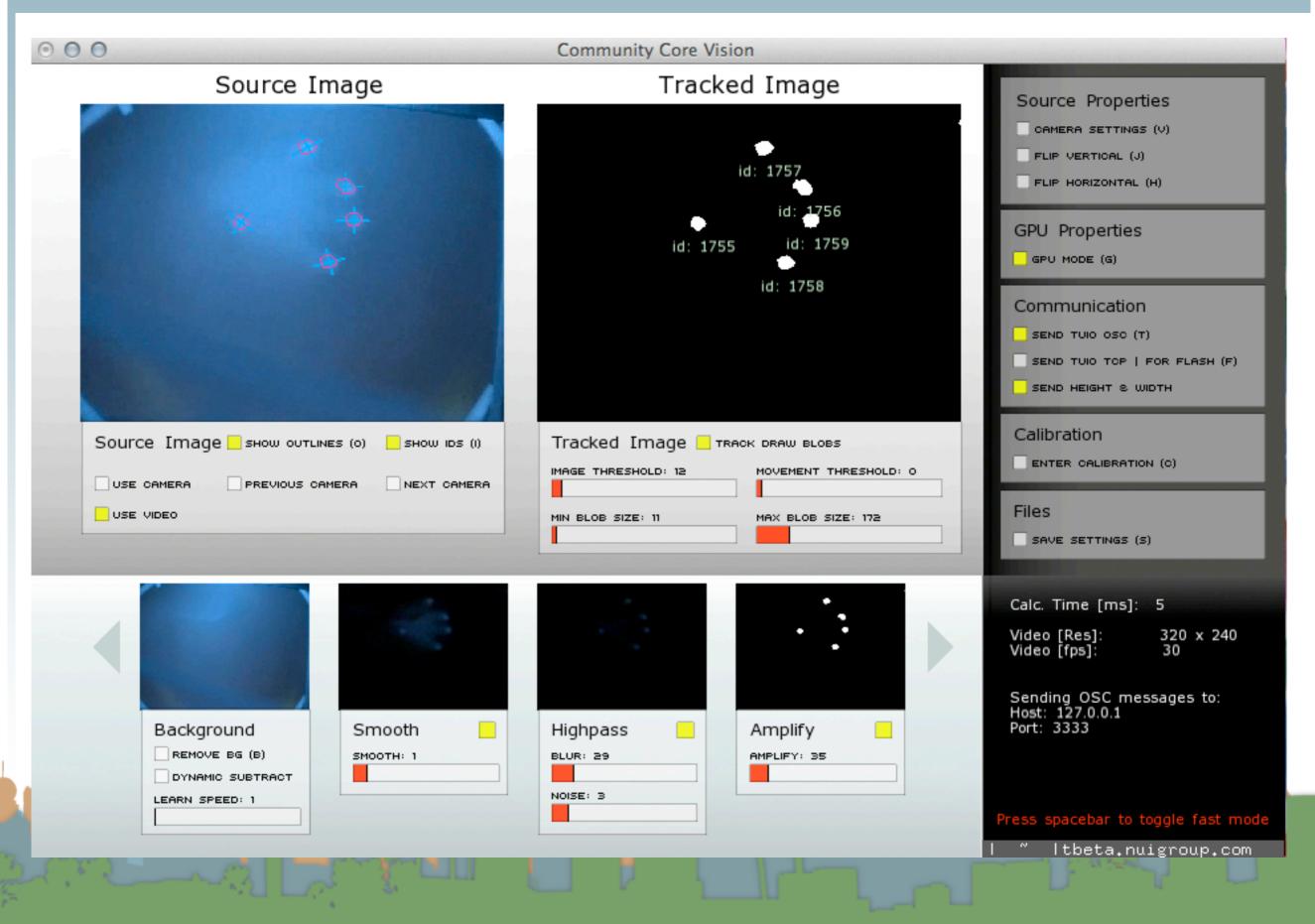


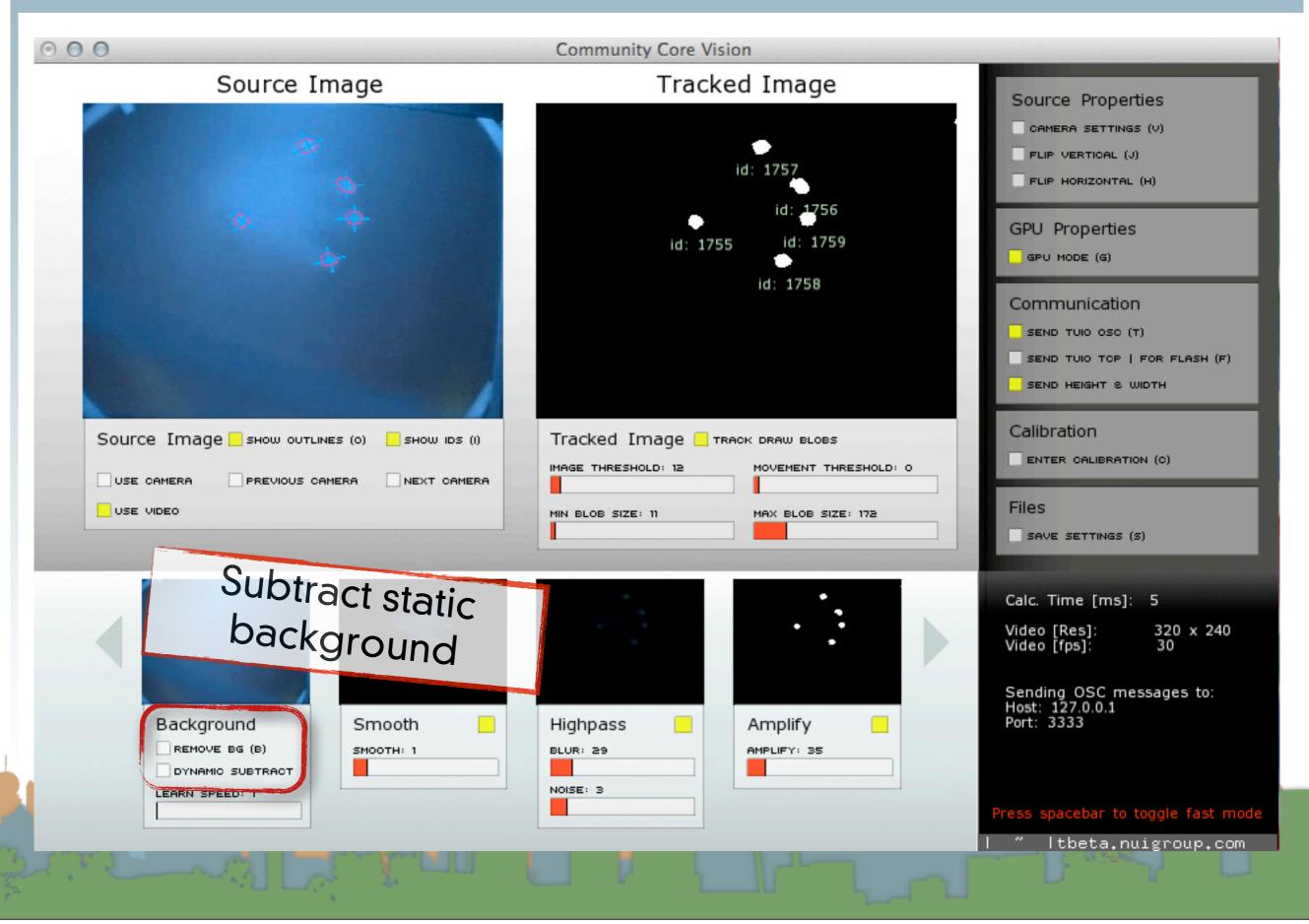
- Download Community Core Vision
 - http://ccv.nuigroup.com/

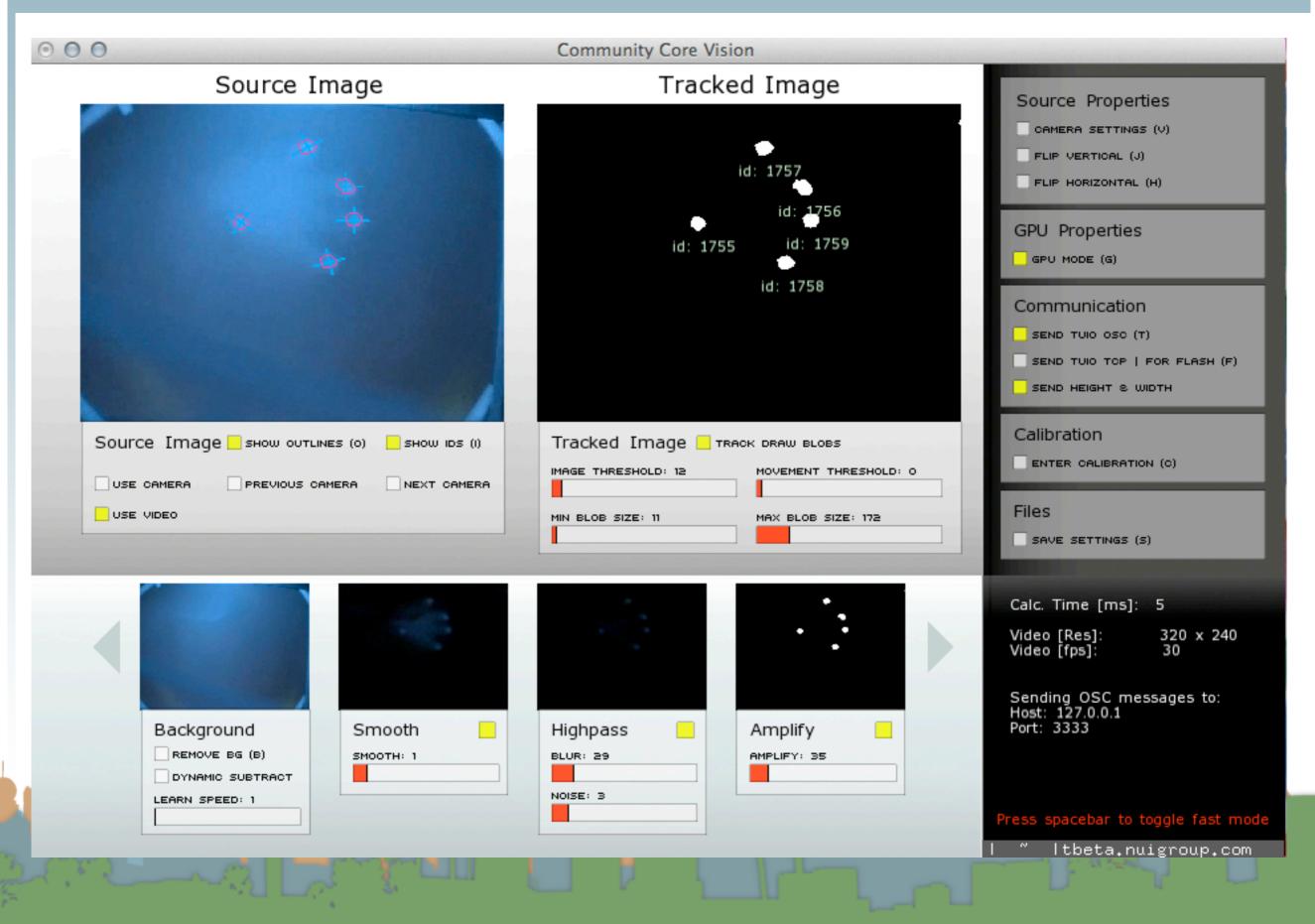


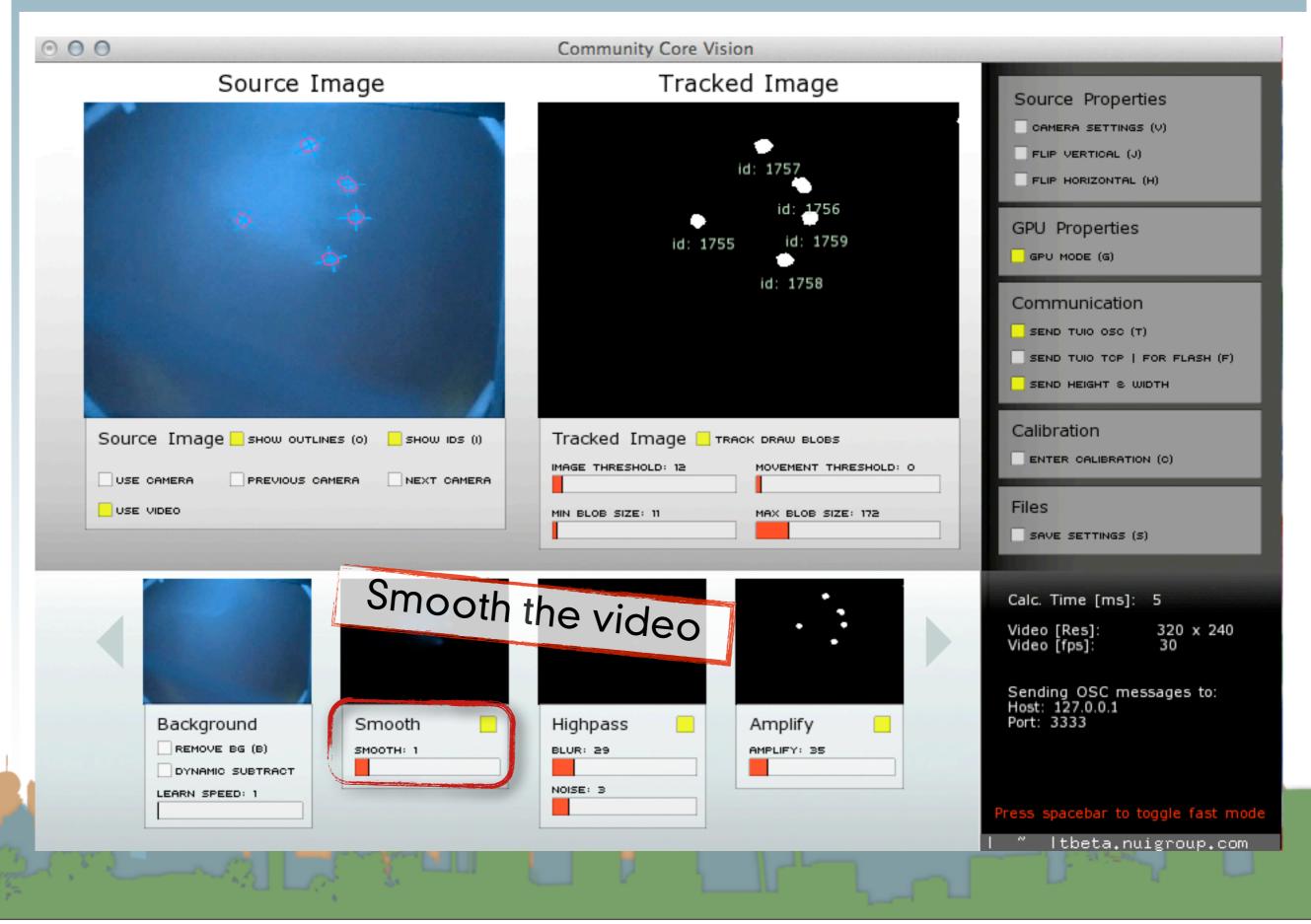


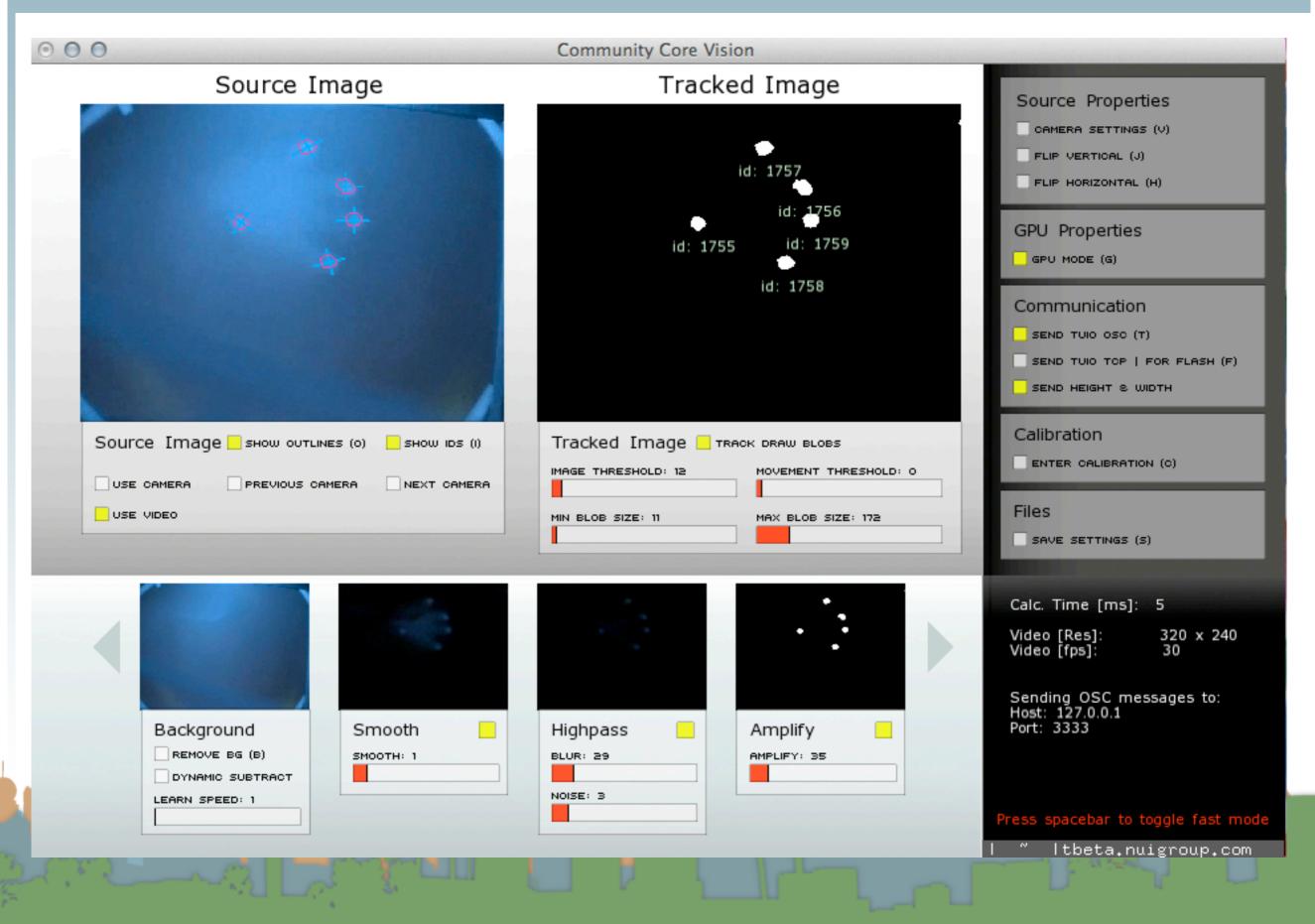


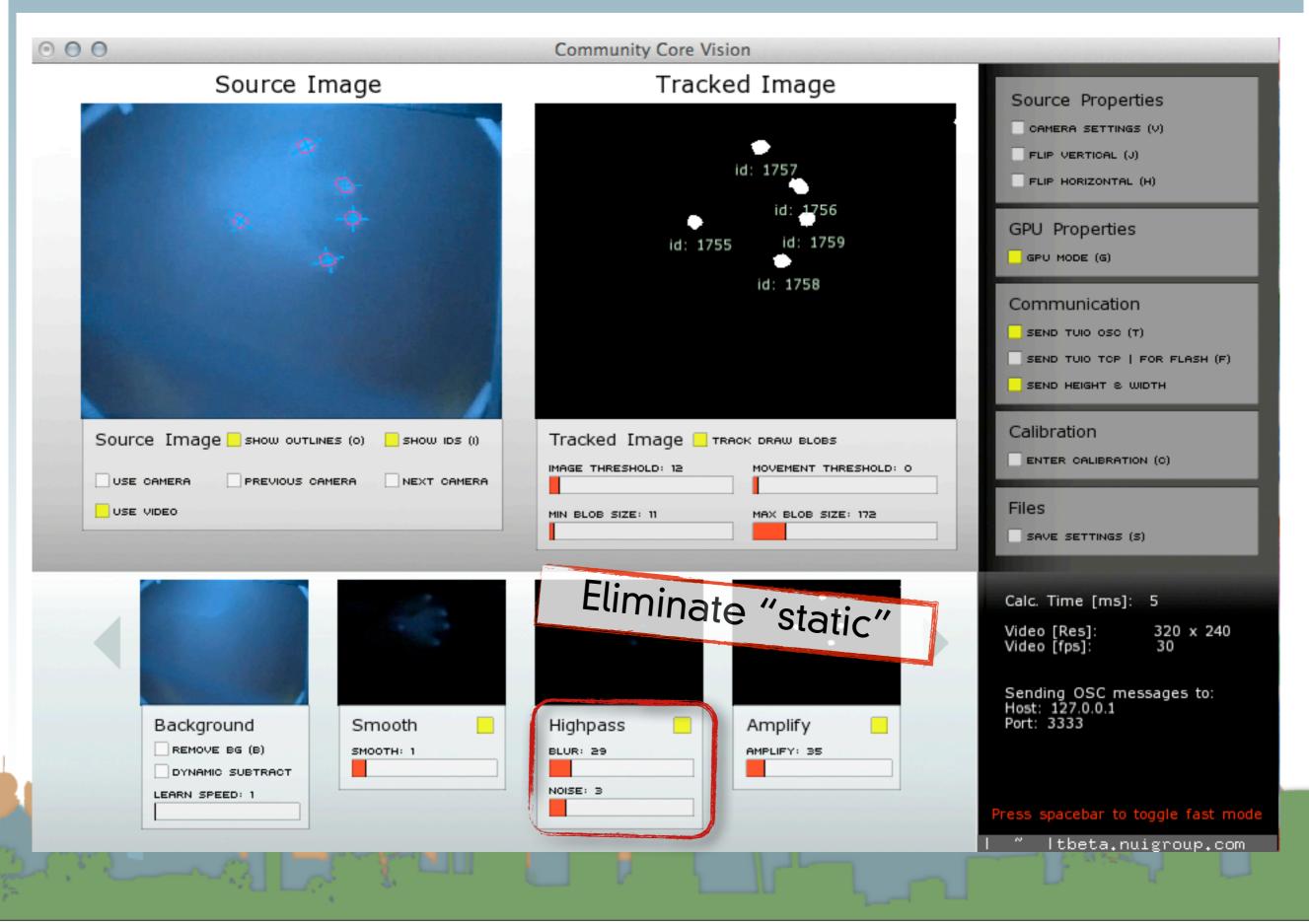


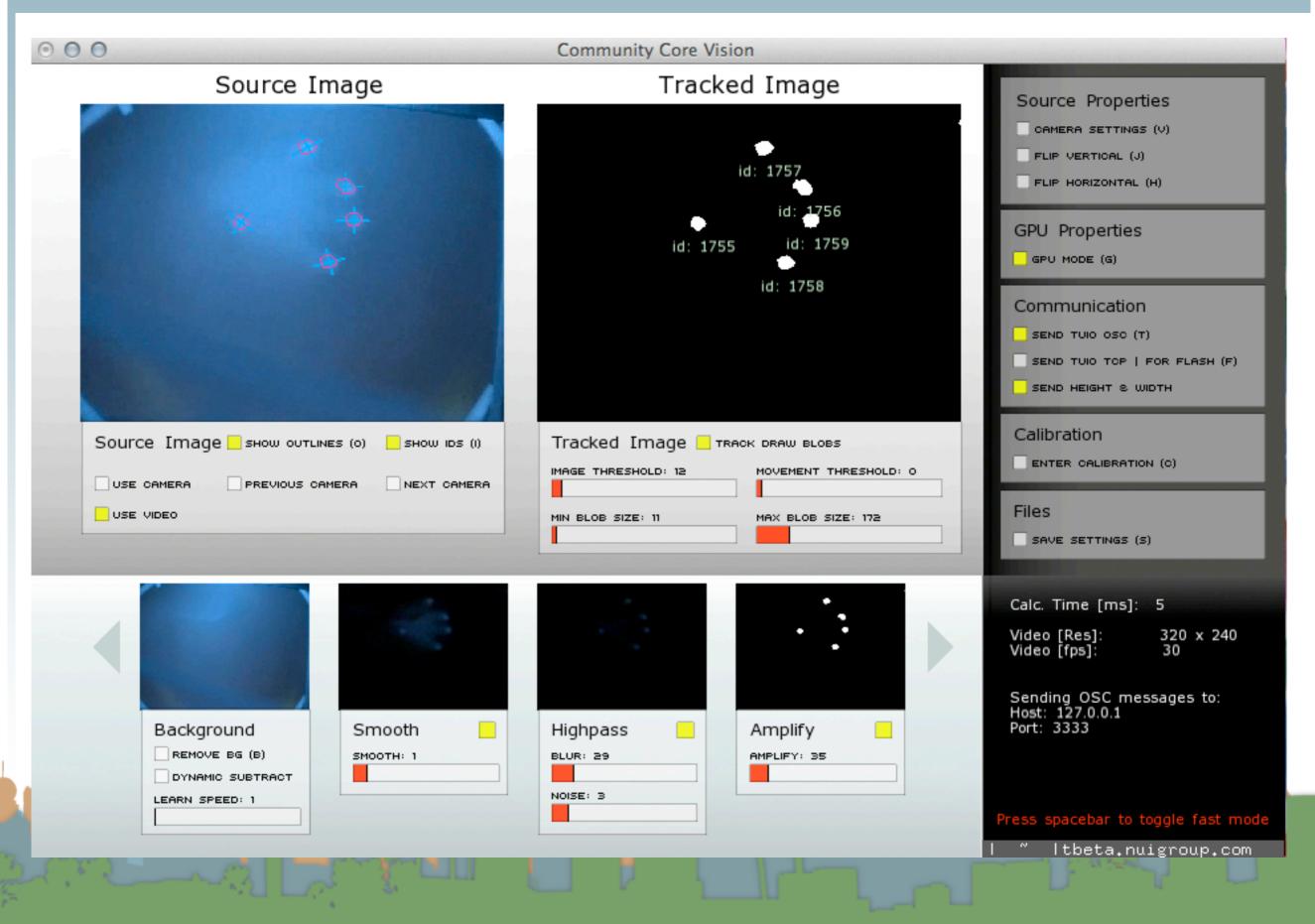


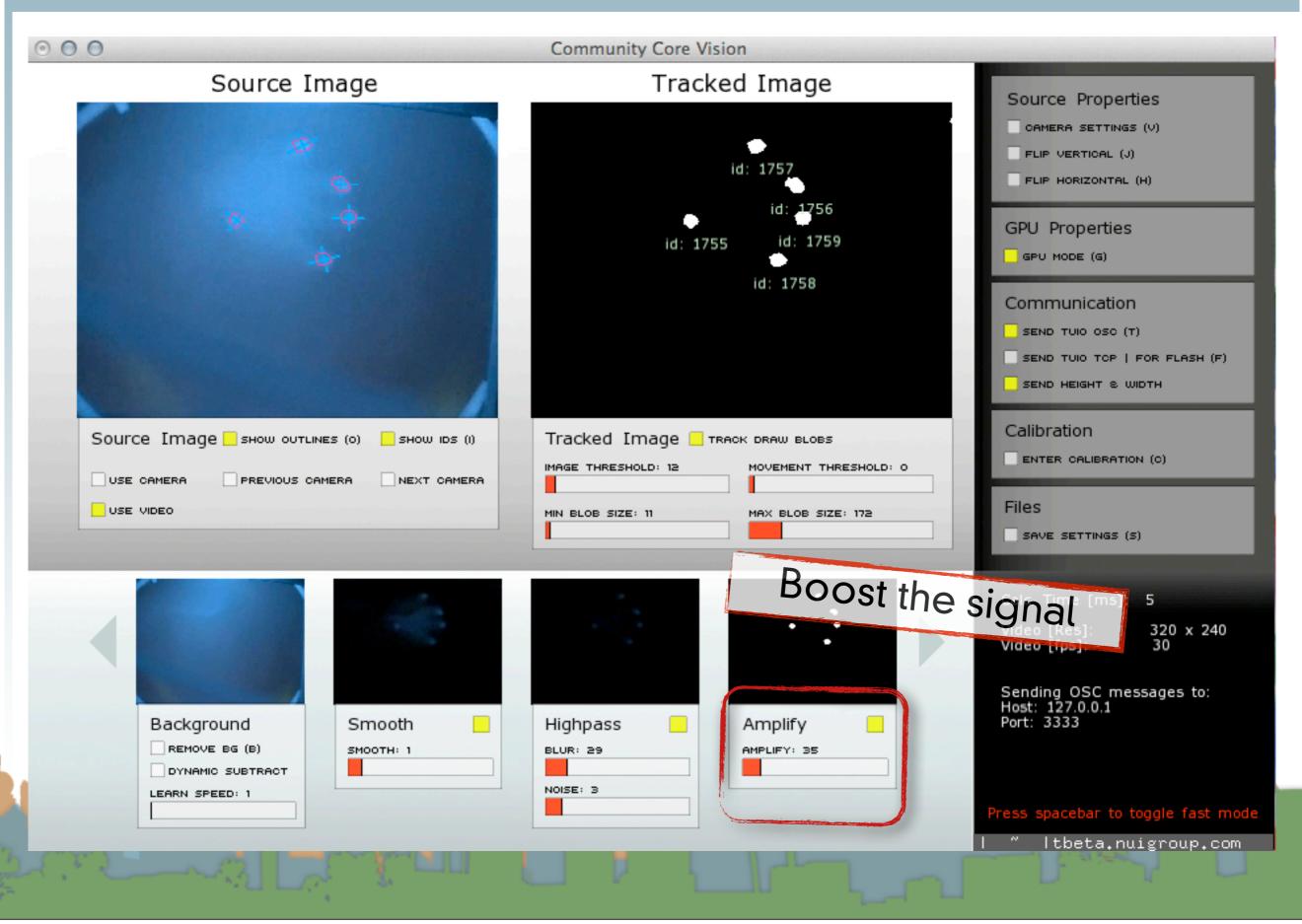


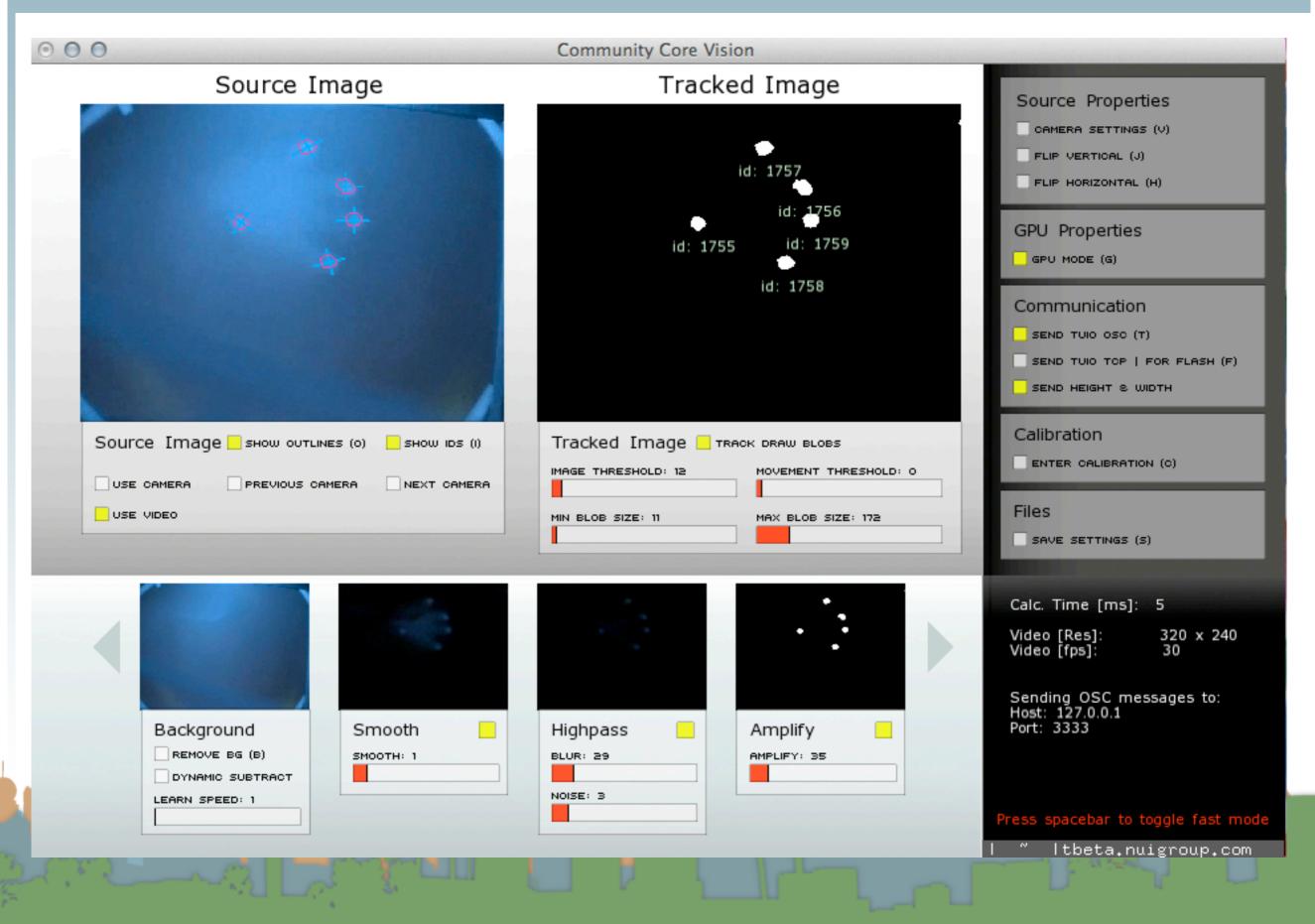


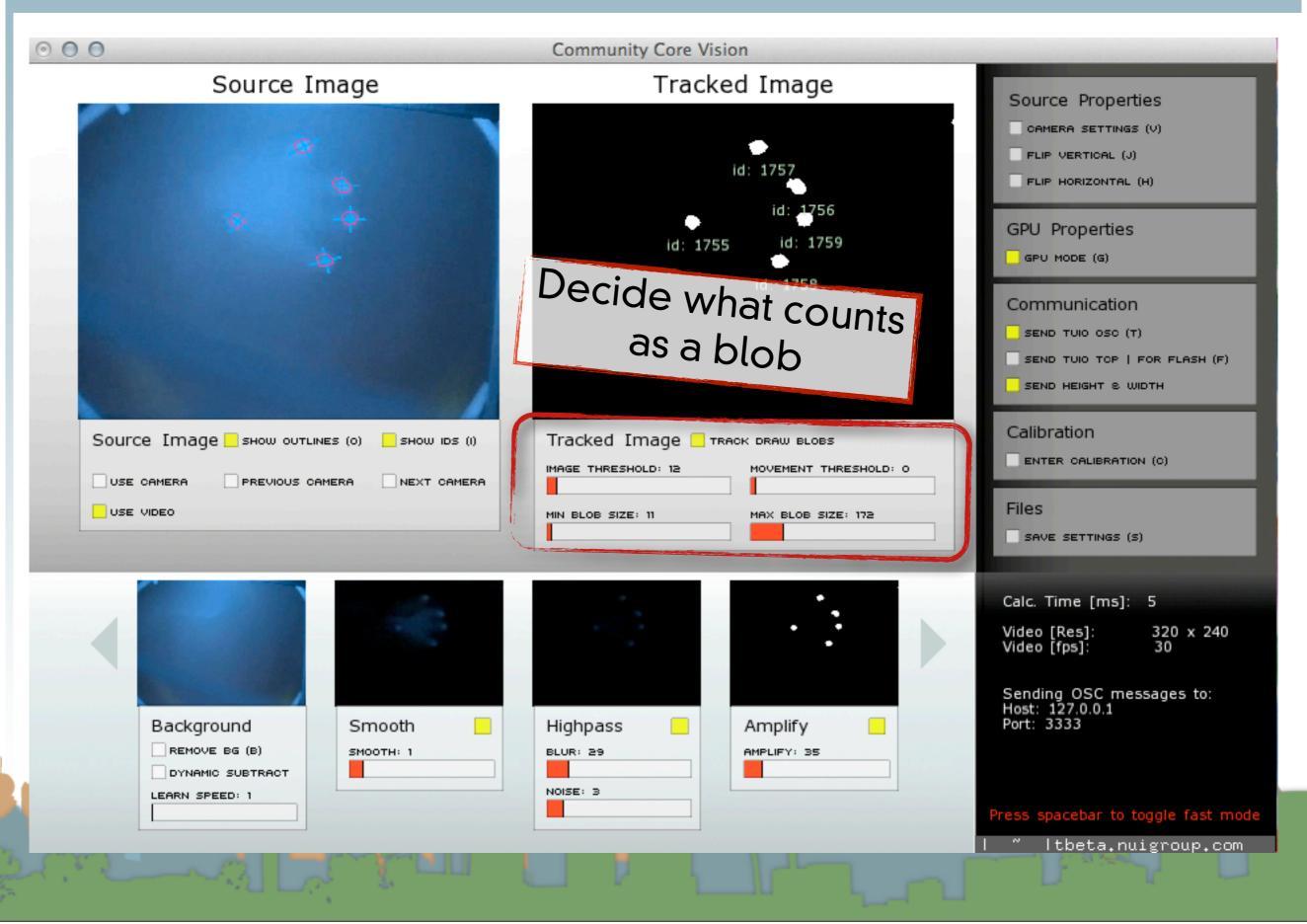


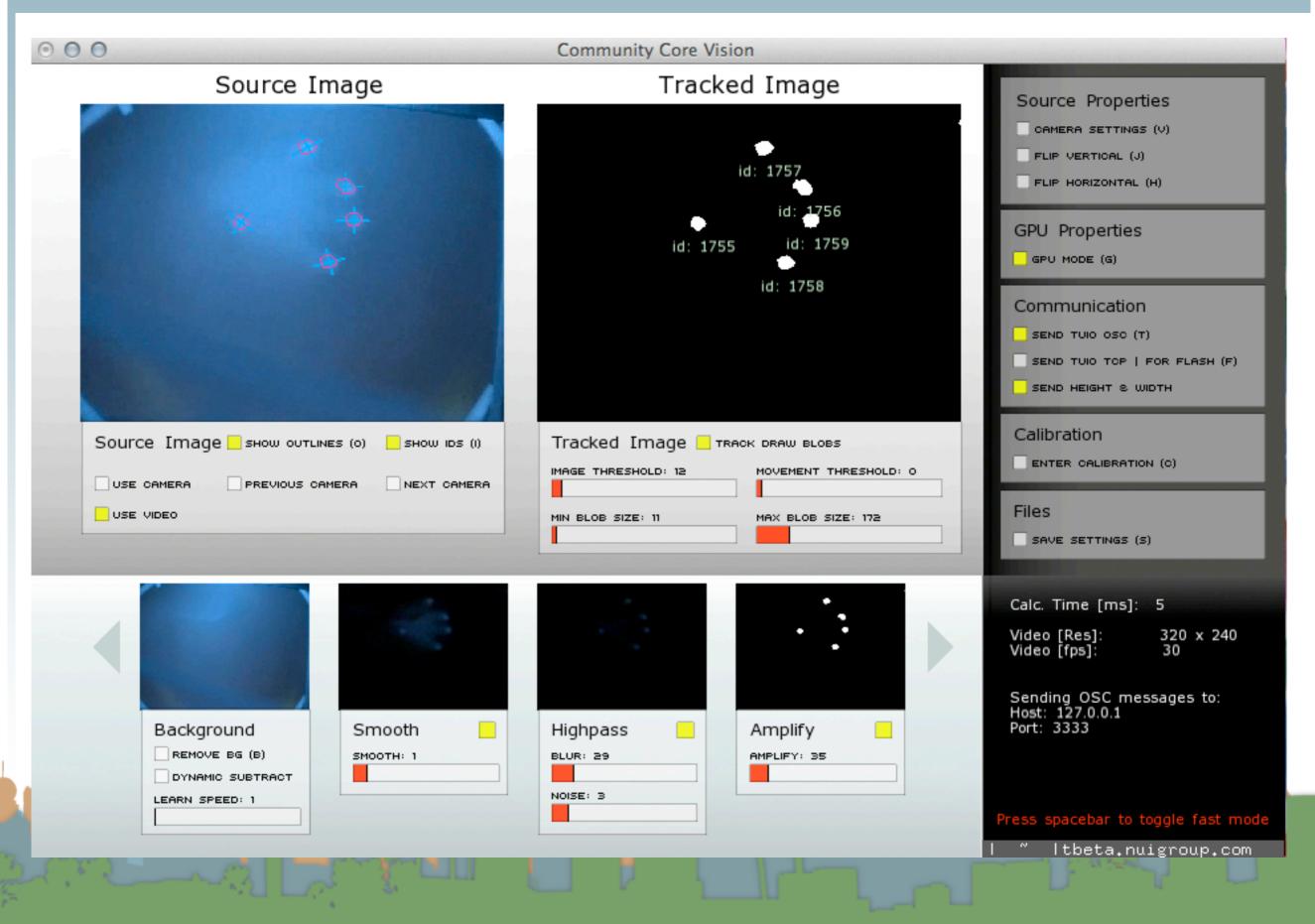


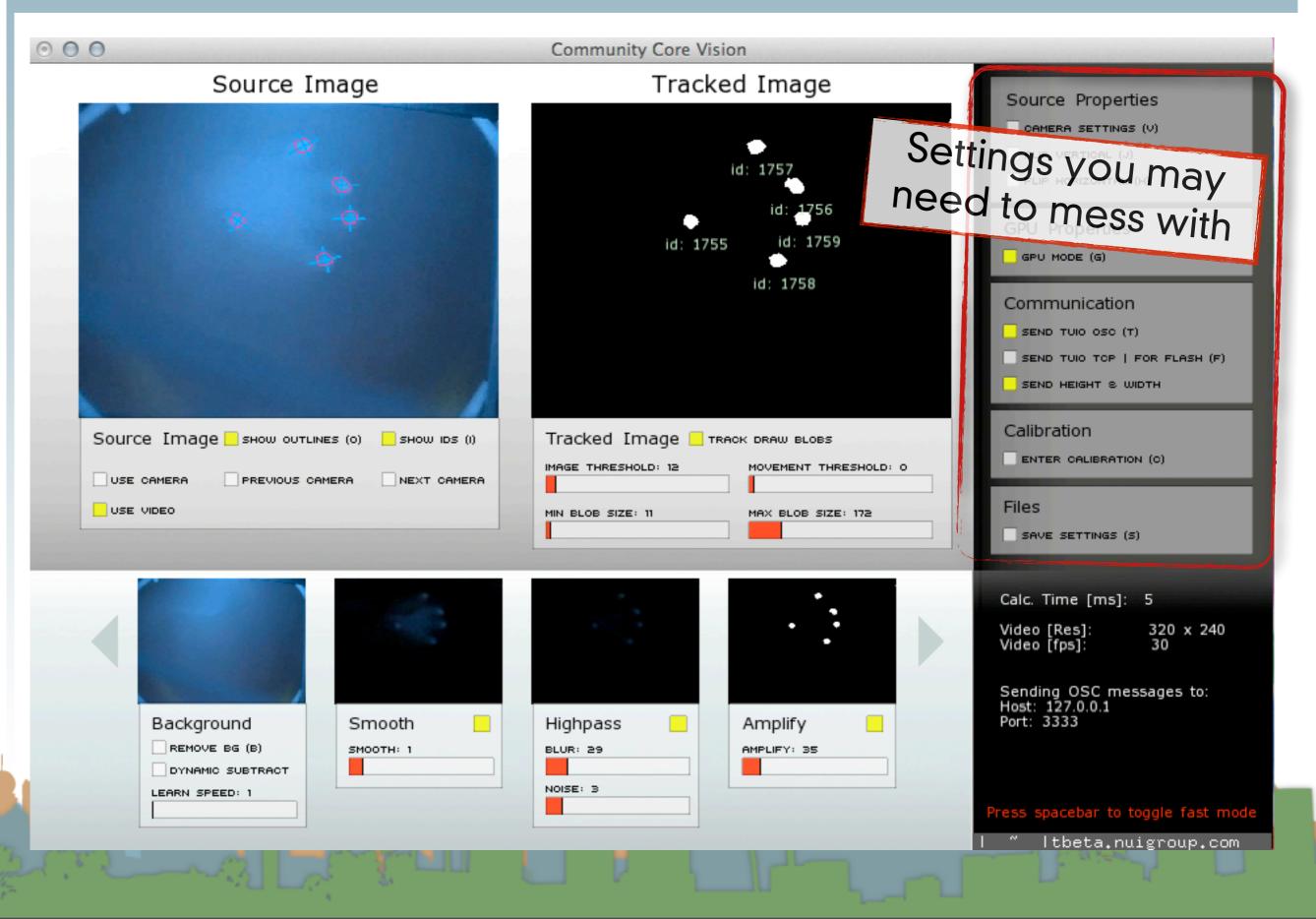


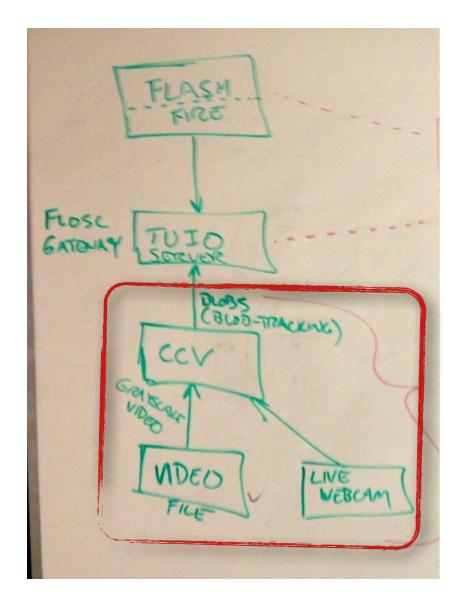












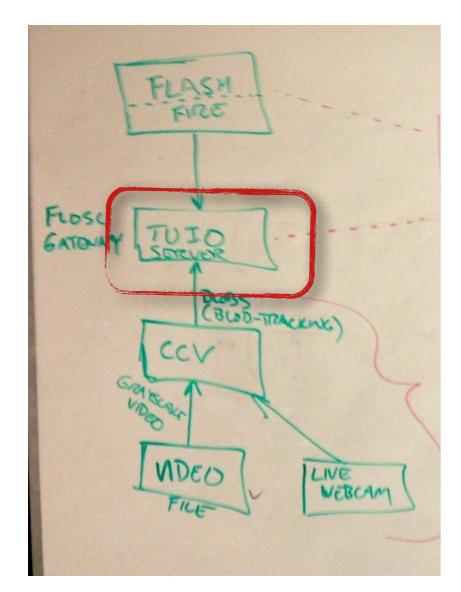
- There is also a configuration file
 - config.xml
 - GUI settings can be typed



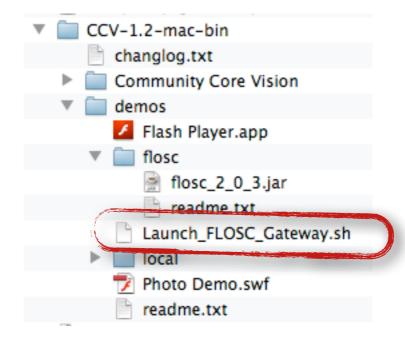




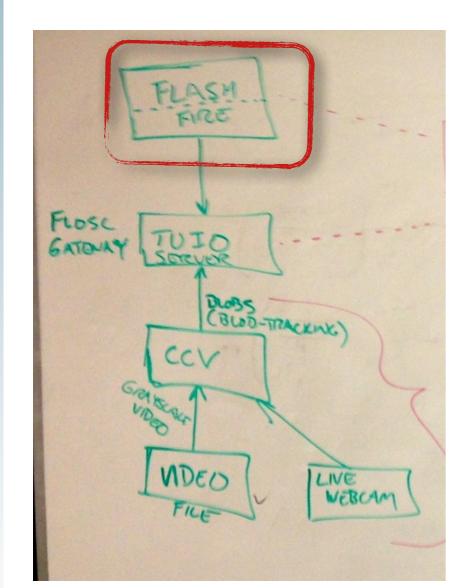




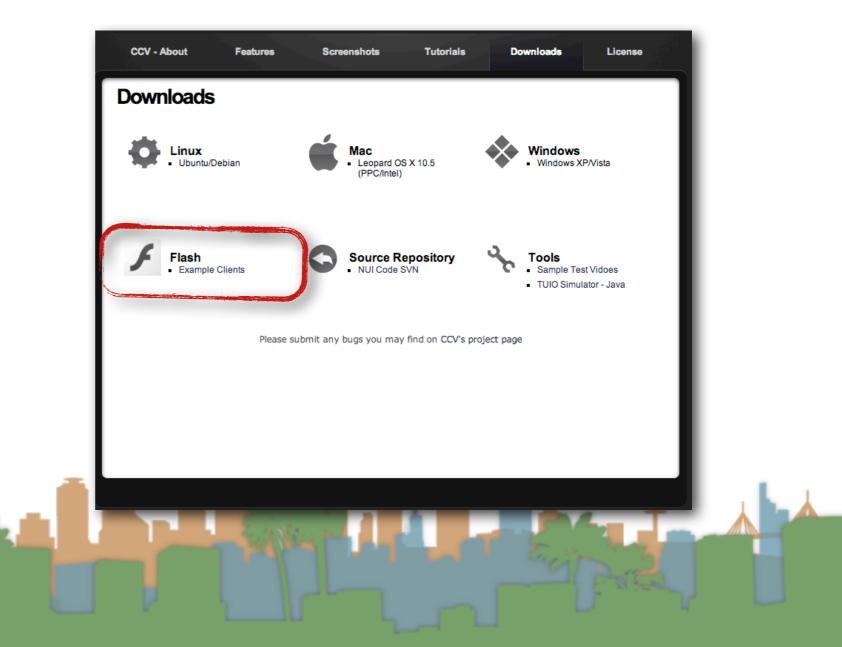
• For Flash Demos run the TUIO server standalone

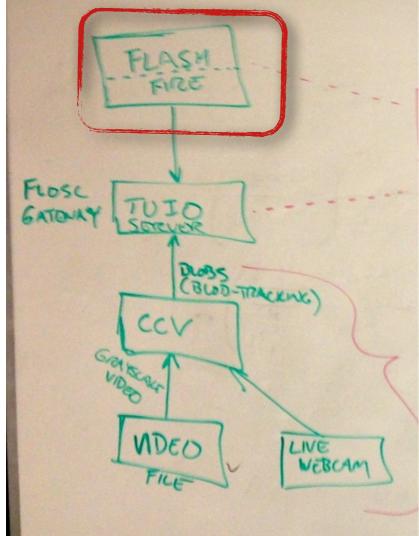




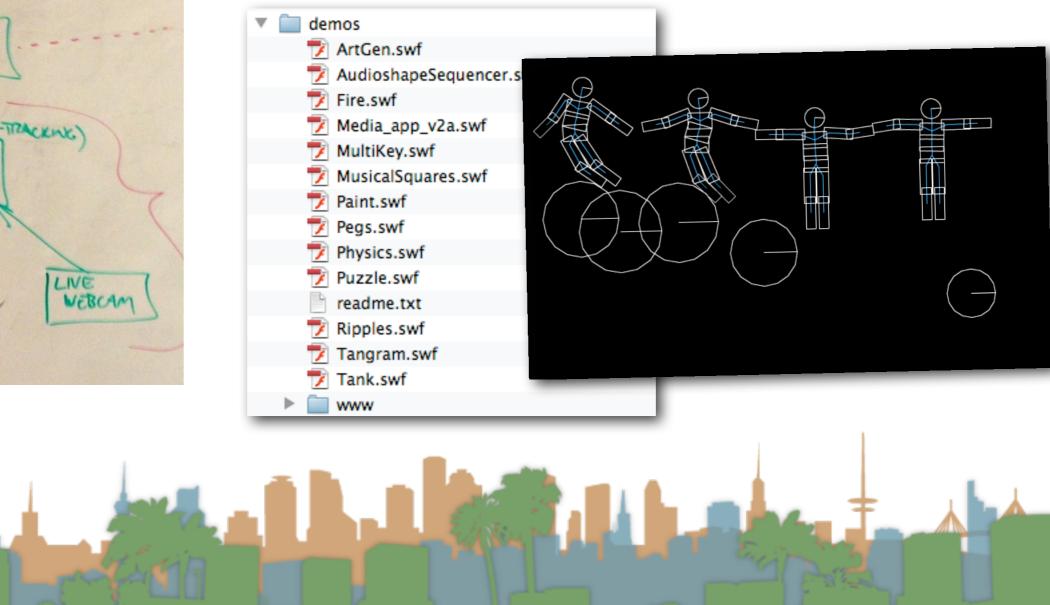


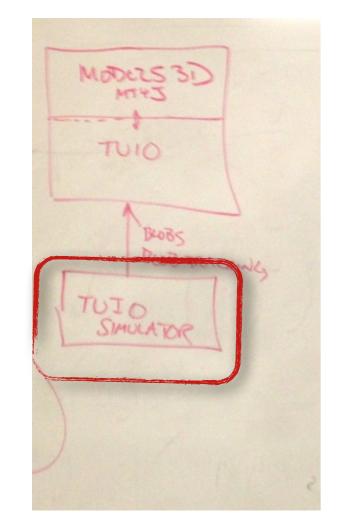
- Download Flash Demos
 - http://ccv.nuigroup.com/



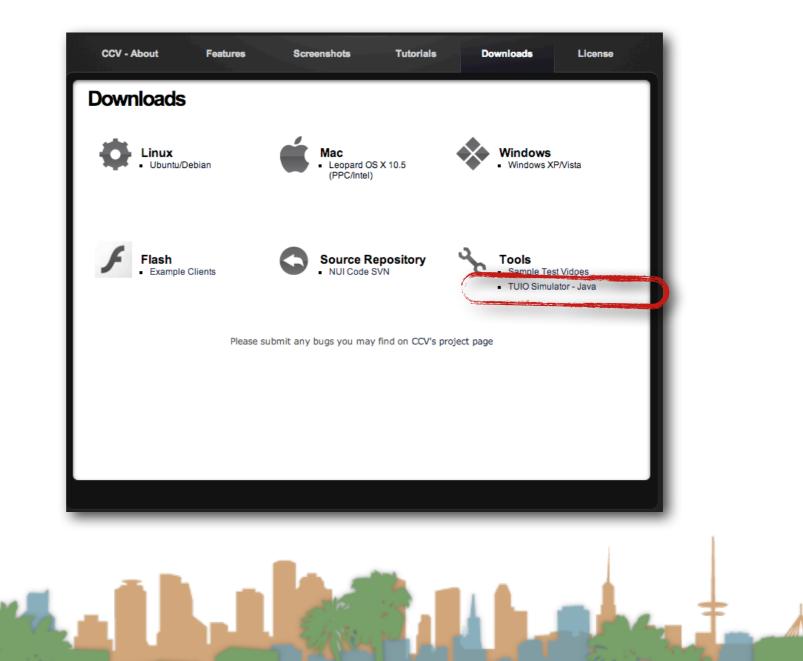


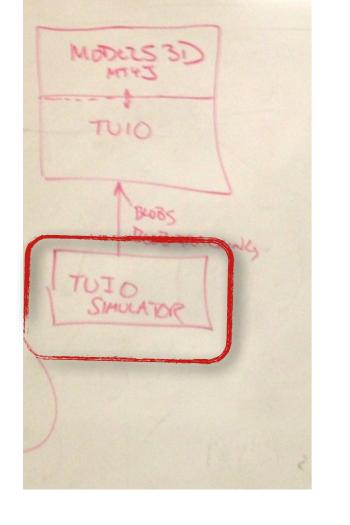
• Download Flash Demos



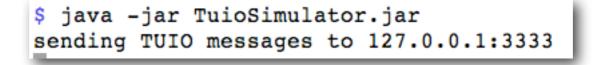


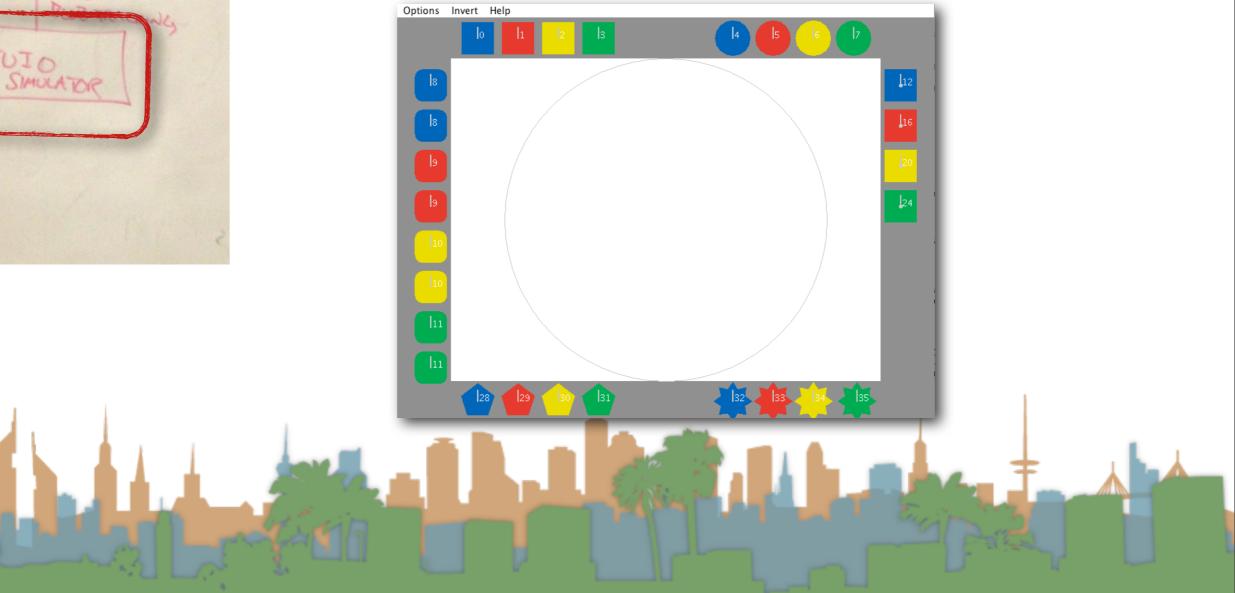
Download TUIO Simulator

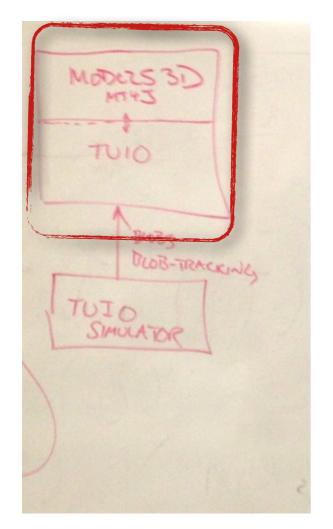




• Run as a java program







• Setup MT4J in Eclipse



- Download and Install Eclipse
 - http://www.eclipse.org/
- Download MT4J
 - http://www.mt4j.org/mediawiki/index.php/Downloads
- Pick a directory and create a new workspace in Eclipse

\odot \odot \odot	Workspace Launcher
Select a workspace	
	ects in a folder called a workspace. Ider to use for this session.
Workspace: /Users/djp	p3/Desktop/temp Browse
Copy Settings	
?	Cancel OK

Create a new Java

Project in Eclipse

000	New Java Project				
	reate a Java Project Create a Java project in the workspace or in an external location.				
Project na	me: Assignment04				
🗹 Use de	ault location				
Location:	/Users/djp3/Desktop/temp/Assignment04	Browse			
JRE					
🕑 Use a	an execution environment JRE:	JavaSE-1.6			
O Use	a project specific JRE:	JVM 1.5.0 (MacOS X Default)			
	default JRE (currently 'JVM 1.5.0 (MacOS X Default)')	Configure JREs			
_					
Project la	yout				
🔘 Use	project folder as root for sources and class files				
Creat	te separate folders for sources and class files	Configure default			
Working	sets				
Add	project to working sets				
Working	sets:	* Select			
	efault compiler compliance level for the current wor t specific compiler compliance level of 1.6.	kspace is 1.5. The new project will use a			
?	< Back Next >	Cancel Finish			

• Create a new

Java Project in Eclipse for MT4J

$) \bigcirc \bigcirc$	New Java Proje	ect
reate a Java	a Project	
Create a Java	project in the workspace or in an external locat	tion.
Project nam	e: MultiTouchForJava	
🗹 Use defa	ult location	
Location:	/Users/djp3/Desktop/temp/MultiTouchForJava	Browse
JRE		
-	n execution environment JRE:	JavaSE-1.6
	project specific JRE:	JVM 1.5.0 (MacOS X Default)
	efault JRE (currently 'JVM 1.5.0 (MacOS X Default	
0 030 0		()) <u>compare juice</u>
Project lay	out	
🔘 Use pr	roject folder as root for sources and class files	
Create	e separate folders for sources and class files	Configure default
Working se	ets	
🗌 Add p	roject to working sets	
Working s	sets:	Select
	fault compiler compliance level for the current v specific compiler compliance level of 1.6.	workspace is 1.5. The new project will use a
project	specific compiler compilance level of 1.6.	
3	(< Back) (Next	t > Cancel Finish

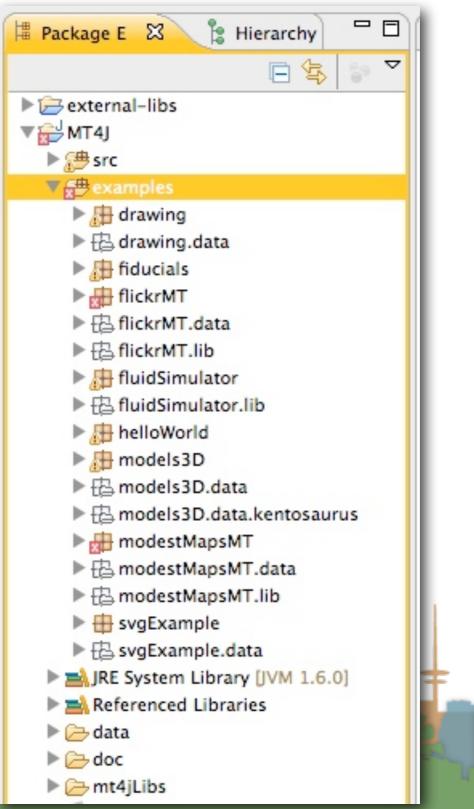
• Move MT4J to the new project and refresh in Eclipse

Aug 13, 2010, 5:49 A	M 20 KB	Plain text	Document
Aug 13, 2010, 12:19	AM	Folder	MercuryMe
Aug 13, 2010, 12:15 /	AM	Folder	
Aug 13, 2010, 12:15 /	AM	Folder	▼ SHARED
Aug 13, 2010, 12:15	AM 20 KB	Plain text	🖳 local Jungl
Aug 13, 2010, 12:15	AM 20 KB	Plain text	🖂 Donald Pa
Aug 13, 2010, 12:15	AM 112 KB	Plain text	
Aug 13, 2010, 12:15	AM 308 KB	Plain text	▼ PLACES
Aug 13, 2010, 12:15 /	AM 52 KB	Document	Desktop
Aug 13, 2010, 12:15 /	AM 8 KB	Document	😭 djp3
Aug 13, 2010, 12:15 /	AM 32 KB	Document	Application
Aug 13, 2010, 12:15 /	AM 52 KB	Document	Document
Aug 13, 2010, 12:15 /	AM 12 KB	Document	C Download
Aug 13, 2010, 12:15	AM 460 KB	Document	secondJou
Aug 13, 2010, 12:15	AM 188 KB	Document	Quiz02
Aug 13, 2010, 12:15	AM 2.7 MB	Document	Quizoz
Aug 13, 2010, 12:15 /	AM 1.2 MB	Document	V SEARCH FOR
Aug 13, 2010, 12:15 /	AM 20 KB	Plain text	(Today
Aug 13, 2010, 12:15 /	AM 28 KB	Plain text	() Yesterday
Aug 13, 2010, 12:15 /	AM 16 KB	Document	
Aug 13, 2010, 12:15	AM	Folder	Past Week
Aug 13, 2010, 12:15	AM 4 KB	Plain text	All Images
Aug 13, 2010, 12:15	AM 4 KB	Plain text	All Movies
Aug 13, 2010, 12:15	AM	Folder	🔯 All Docum
Aug 13, 2010, 12:15	AM	Folder	
Aug 13, 2010, 12:15	AM 4 KB	XML Sce File	
Aug 12 2010 12:15	AM FEVD	Diain toxt	

- Add all the .jar files in the mt4jLibs directory into the build path for the MT4J project.
 - Right click -> Build path -> "Add to Build Path"
- Make sure "examples" is in your build path as a source directory. (Look at the project properties)

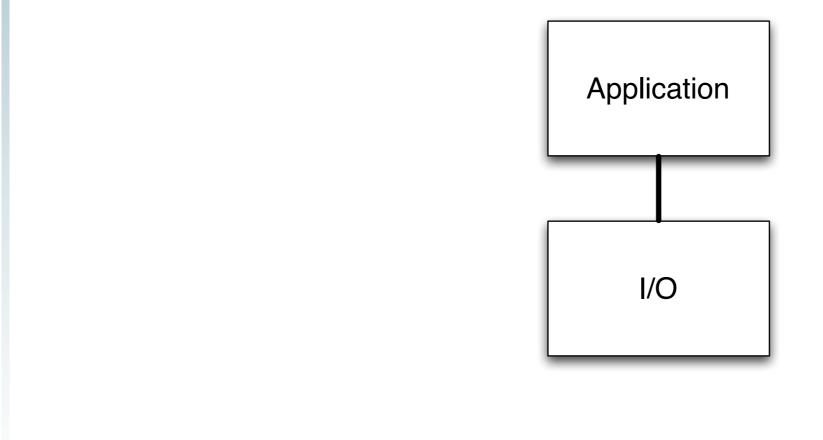


- When you run an MT4J program the TUIO server is built in
 - Hello World
 - Test Scene
 - MTGestures
 - Space Scene
 - Fluid Simulator



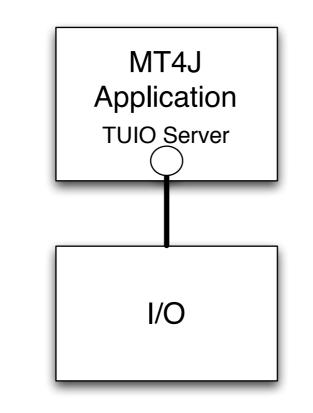
- The MT4J page has information on how to use MT4J
 - It's a visualization system
 - It is complicated
 - Start with an example
 - Then modify it

- Get an end-to-end demo running with off the shelf stuff
- Then slowly replace the pieces with your implementations



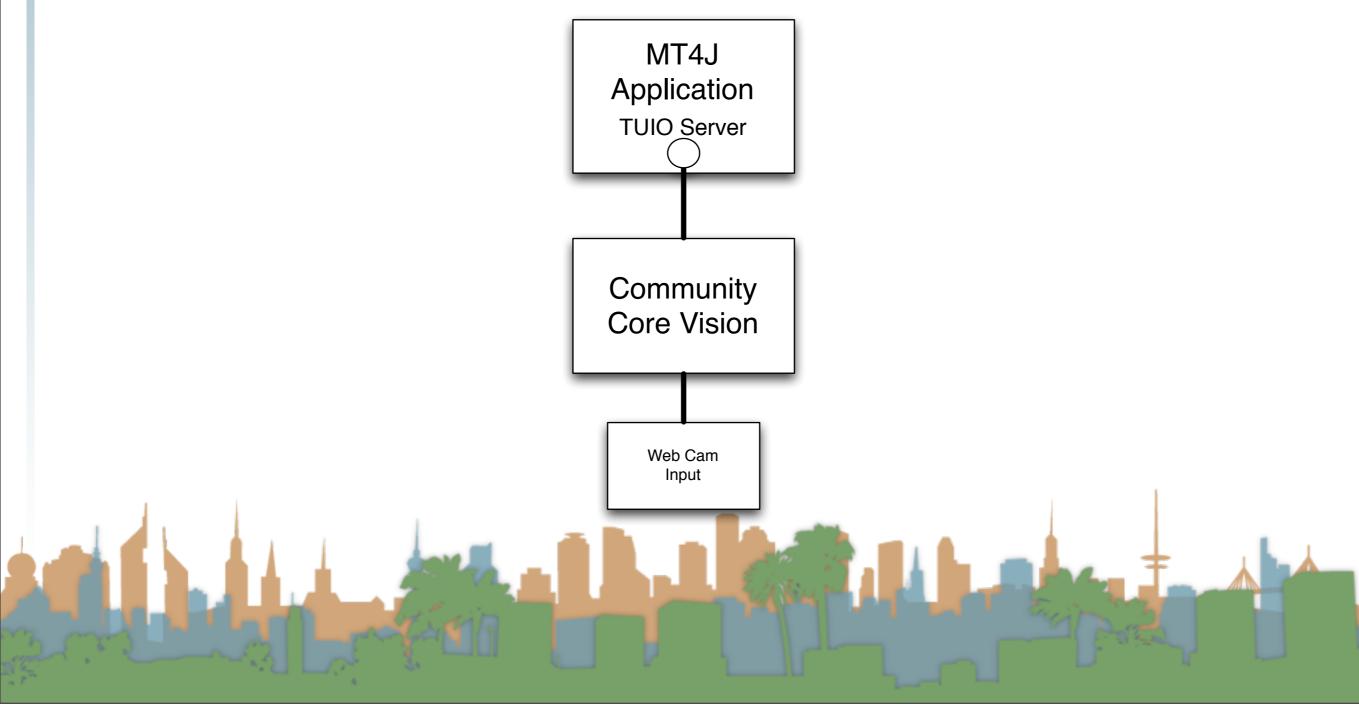


- Get an end-to-end demo running with off the shelf stuff
- Then slowly replace the pieces with your implementations

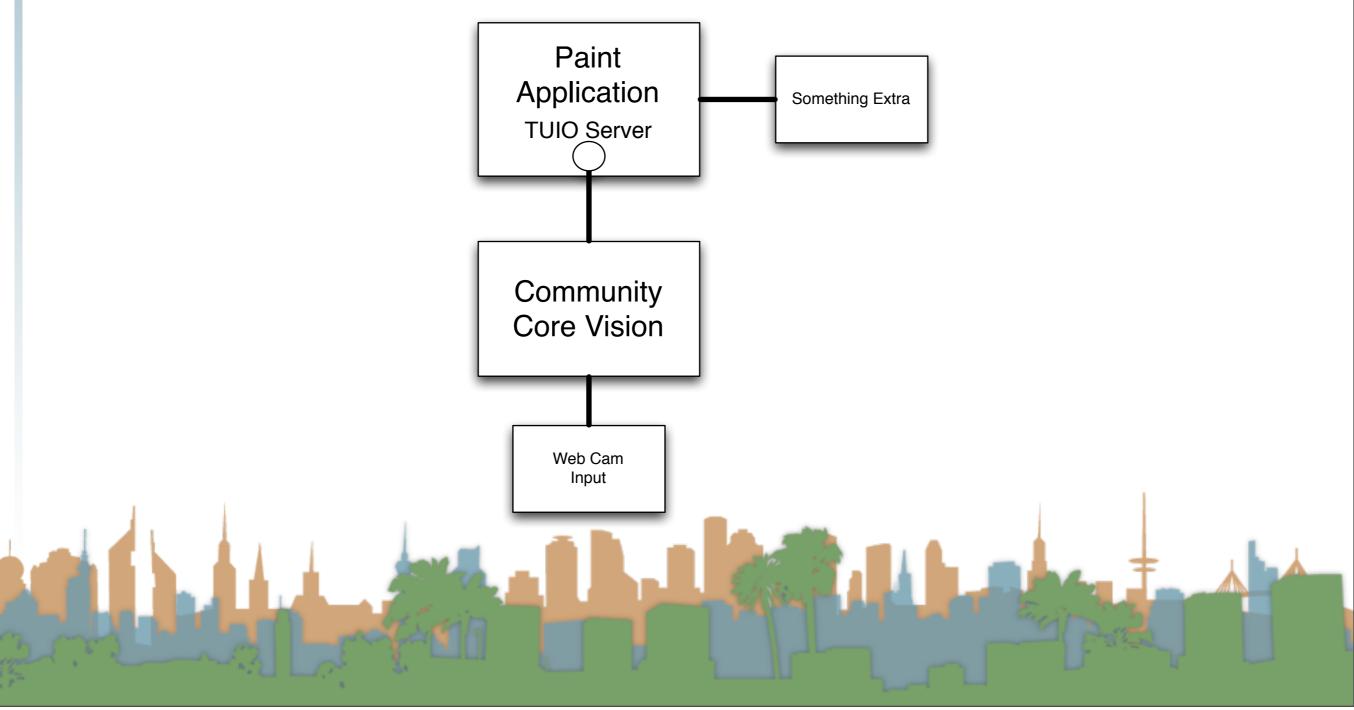




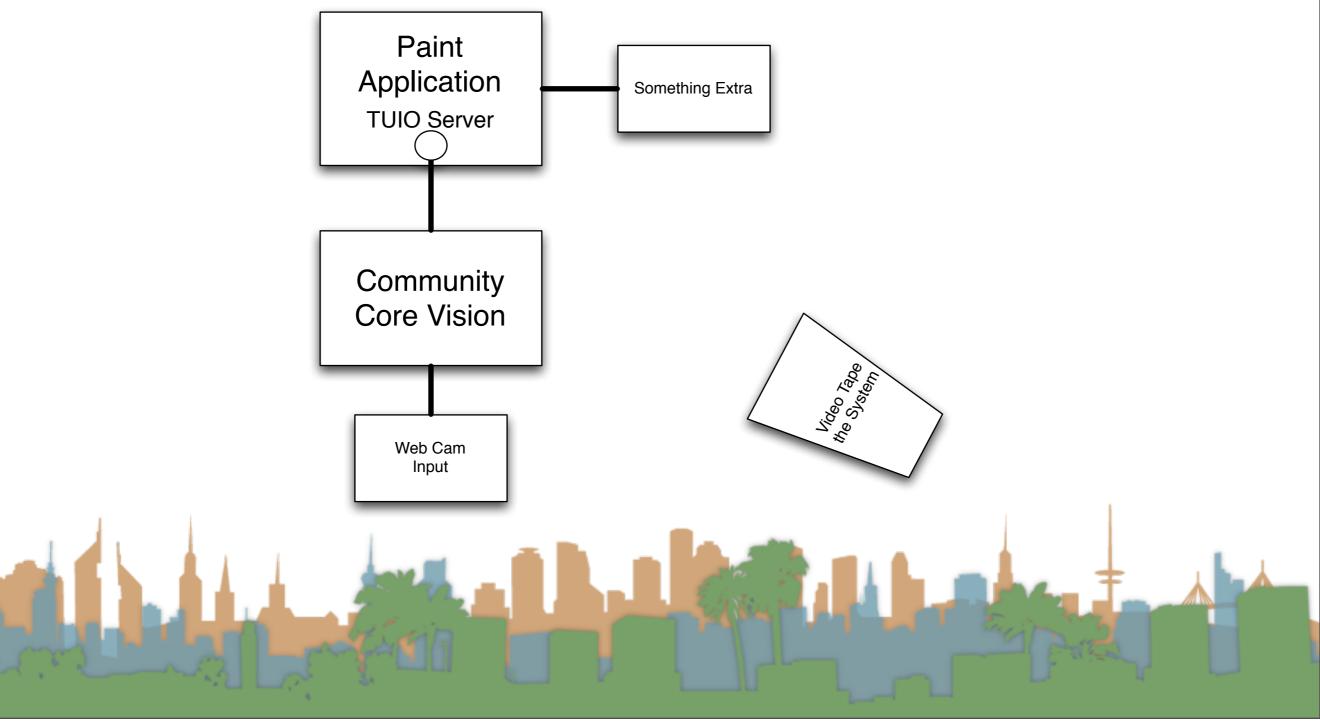
- Get an end-to-end demo running with off the shelf stuff
- Then slowly replace the pieces with your implementations



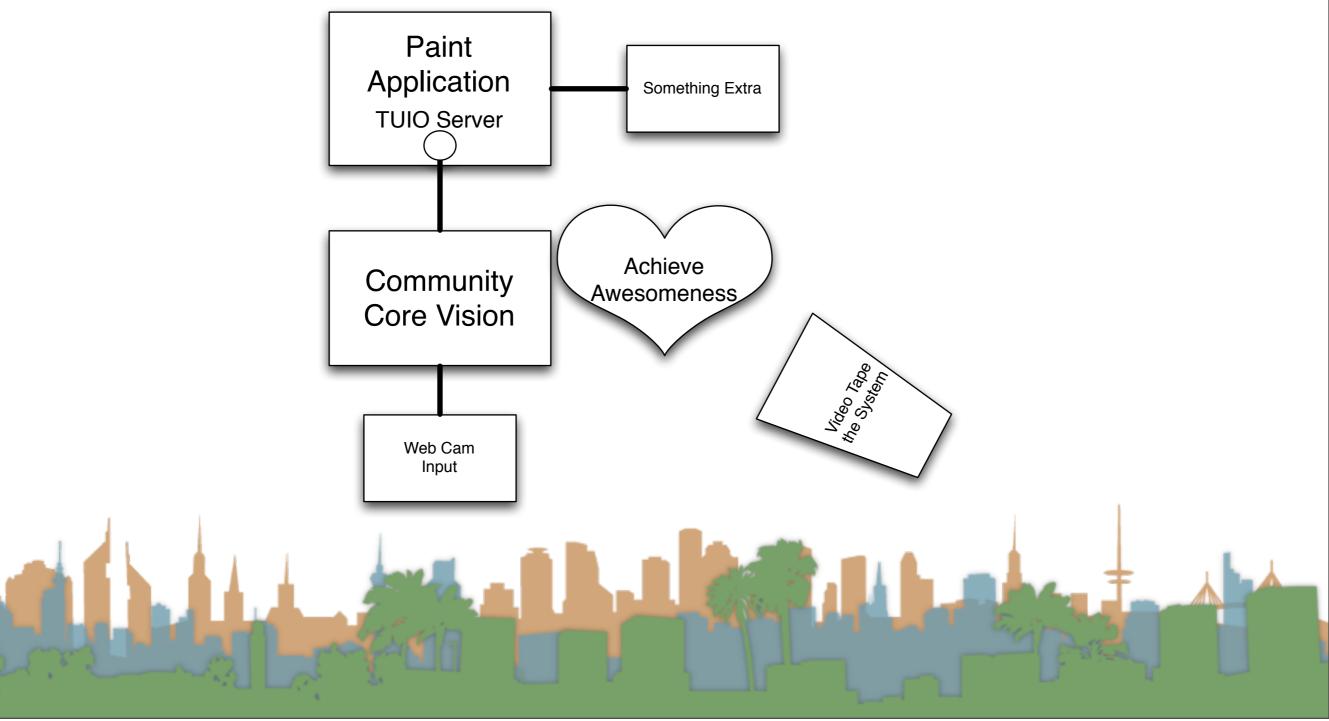
- Get an end-to-end demo running with off the shelf stuff
- Then slowly replace the pieces with your implementations



- Get an end-to-end demo running with off the shelf stuff
- Then slowly replace the pieces with your implementations



- Get an end-to-end demo running with off the shelf stuff
- Then slowly replace the pieces with your implementations



- Options for increased awesomeness
 - Do a different application than a paint program
 - Make sure it needs multi-touch (talk to prof.)
 - Do a different input than a webcam
 - Make sure it is more than just a download (talk to prof.)
 - Remember this can be a portfolio piece!



