



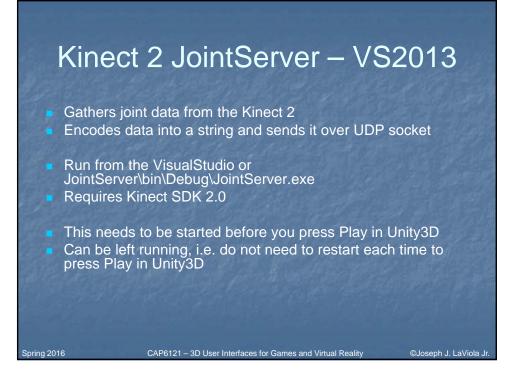


Kinect SDK – Joints

- Two users can be tracked at once
- <x,y,z> joints in meters
- Each joint has a state
 tracked, not tracked, inferred

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- Inferred occluded, clipped, or no confidence
- Not tracked rare but needed for robustness



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JointUnity

Main script – KinectSkeleton.cs

- Recieves data from UDP socket
- Decodes it and updates joint values
- This script has to be attached to some object in your scene to work

Demo use script – SkeletonEmulator.cs

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Example use of KinectSkeleton API

JointUnity API

KinectSkeleton kinect

main object

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 Dictionary<int, PlayerSkeleton> kinect.players

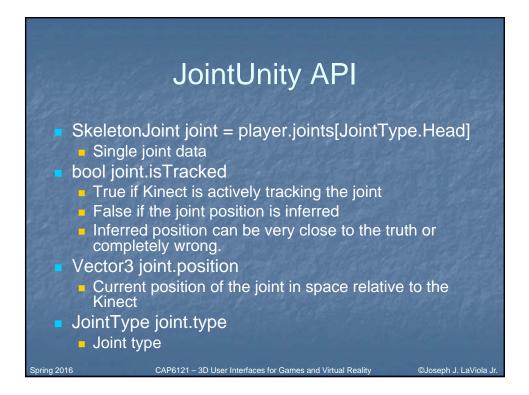
- Dictionary of players
- Access with player ID in range [0,5]

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kinect.players[0] to get first player



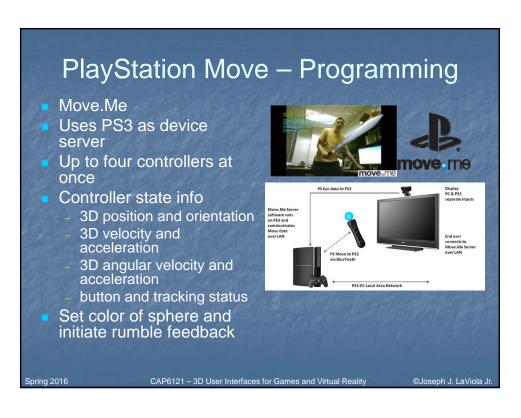


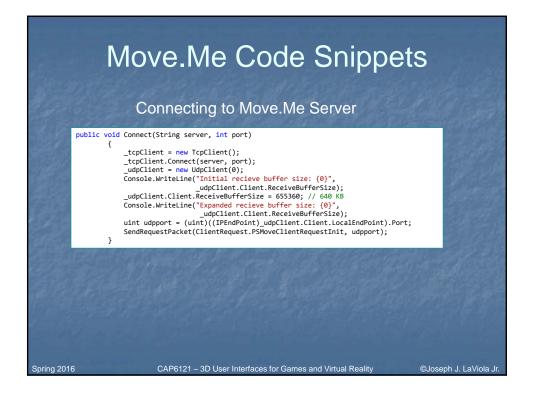


- Kinect 2 randomly assigns ID to players it sees.
- If you step out of the frame and back you will likely get a new ID.
 - Due to this even with a single player in frame you will have to look through all 6 players in API to find one that isTracked.
- At times Kinect cannot see certain joints and it will guess their position.
- In KinectServer joints that are inferred will have thin lines drawn to the instead of thick color ones.
- Color of the skeleton displayed in KinectServer represents player ID.

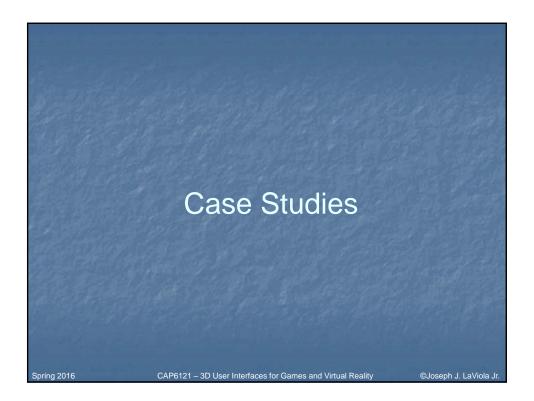
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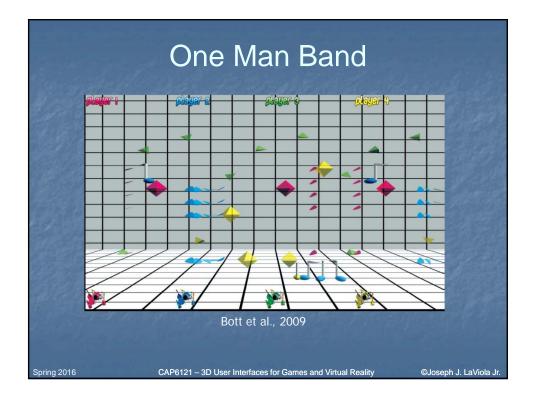
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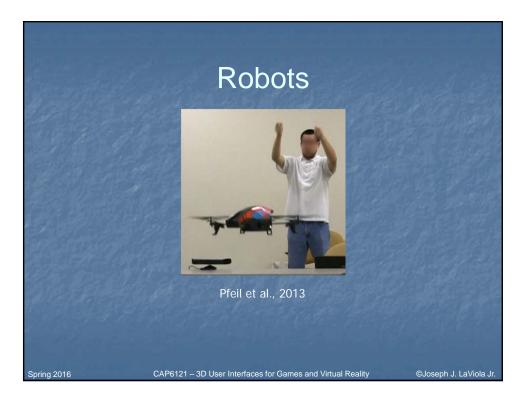












Conclusions – Which to Choose?

