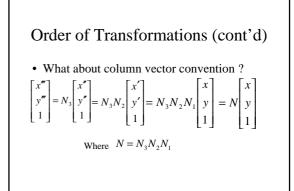
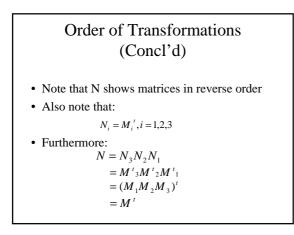
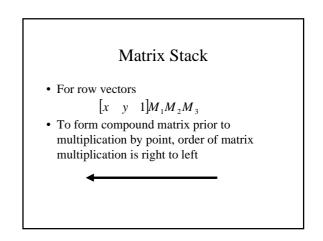
Order of Transformations

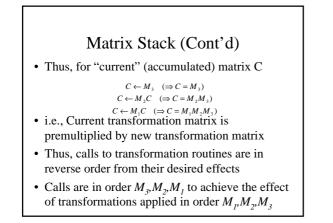
 $[x''' y''' 1] = [x' y' 1]M_3$ = $([x' y' 1]M_2)M_3$ = $(([x y 1]M_1)M_2)M_3$ = [x y 1]M

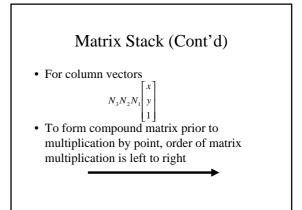
where $M = M_1 M_2 M_3$











Matrix Stack (Cont'd)

- Thus, for "current" (accumulated) matrix C $C \leftarrow N_3 \quad (\Rightarrow C = N_3)$ $C \leftarrow CN_2 \quad (\Rightarrow C = N_3N_2)$ $C \leftarrow CN_1 \quad (\Rightarrow C = N_3N_2N_1)$
- i.e., Current transformation matrix is postmultiplied by new transformation matrix
- Thus, calls to transformation routines are still in reverse order from their desired effects

Matrix Stack (Concl'd)

• Calls in order $N_3 N_2 N_1$ to achieve the effect of transformation applied in order $N_1 N_2 N_3$