Student's NetID	Student's Name	Grader's Netl

(netID == 3 letters, 3 digits: e.g. JET861 Please write clearly; make it easy to read)

CompSci 351-1 Grading Sheet: Project B Fall 2021 J. Tumblin 10/29/2021

10% In-Class Interactive Demo shown on ZOO	M. Demonstrates multiple items listed on this page.
5% All file-naming correct, with clear illustrated guide, ≥4 results pictures, and an (optional) sketch of your pro-	d PDF report with name, netID, title, goals, help, user-gram's scene-graph (transform tree).
5% Sensible, Complete On-Screen User Instrucusers can quickly and easily identify and use all your program'	etions: From the program's on-screen display, even new s's features and options without your help.
5% Ground-Plane Grid: Project shows horizontal endlessly to all distant horizons, and thus let us easily assess chworld coordinate system where +z is 'up', the ground plane at	
10% Animated, adjustable 3-Jointed, 4-Segment rigid 3D parts connected by 3 or more sequential joints that mo any camera aiming or position, and camera adjustments and m	
10% 4 or more Additional Multi-color 3D assembleast 3 different vertex colors specified on 1 or more triangles to (fixed, non-moving joints are OK; flexing joints & traveling as	
5% Draw 3D Axes (r,g,b == x,y,z): Draws 3D we set of 3D axes to depict the coordinate system used for a rotation	orld-space coord. axes on-screen, and at least one more ng/translating joint or movable part in the 3D assembly.
10% Mouse-Drag Quaternion Rotations of rigid ground-plane responds to mouse-dragging by quaternion rotations, so that the same mouse move always causes the same	
5% Mouse-Drag Rotations work correctly at all always appears to be perpendicular to the mouse-drag direction	viewpoints. On-screen rotation axes for the 3D part ns, and does not depend on camera position.
10% 2 Side-by-Side Viewports Divides entire bro fill browser window width and exactly 70% of the window hei size window for taller or wider images of any size. Browser re (HINT: unwanted slider bars appear spuriously? Try a small file)	esizing should NEVER invoke browser slider-bars!
15% Smoothly adjustable 3D View Control: Us viewpoint control: be able to aim camera in any direction with backward in the gaze direction, and 'strafe' sideways left/right	
end of the animated 3-joint, 4-part assembly. (e.g. camera attac	r on-screen edit-boxes to enter numbers. The rate of a show view from camera attached to a 3D part at the ched to the end of a finger of a flexing robot-arm) where camera moves continuously but user can adjust:
======TOTAL POINTS/100	(30% of final grade)