Student NetID:	Name:		rader Name:	
	or 4 letters, 3 or 4 digits: e.g. JET861 Plea 51-1 Grading Sh	-	Project A	Fall 2022
J. Tumblin 4/3/2022			•	
	le-naming correct, with clear			
guide, ≥4 r	results pictures, and an (option	nal) sketch of	your program's scene-gr	raph (transform tree).
	ible, Complete On-Screen U uickly and easily identify and			
				elex than a rectangle or cube (>1
	each made by drawing from coake your own drawing fcns, e.g			
10% <b>P</b> ac	torized nor-vertey colors-eye	orvwhoro. Al	1 vertices for all rigid 3D	parts must be stored in the VBO
and all mus	st include position attributes a	and RGB color	r attributes (see Chapter	5). In each rigid 3D part, one or
•	gles must have 3 obviously-did the assembly (e.g. no lighting		colors (not just 2!). No	colors change with position of
•				64
	quiring any user interactions ( $\epsilon$			'travels' continuously on-screen ong a set of flowers)
10% Flex	k <b>ing/Spinning Joints:</b> All join	nt-angles of at	least one assembly mus	t continually change, keeping its
rigid 3D pa	arts moving smoothly and con	ntinually. Joint	ts may spin (e.g. always-	growing rotation angle) or flex
	ngle grows then shrinks cyclic		•	
	NDS: Two or more obviously issimilar scene-graph shape (tl			
<mark>parts</mark> using	0 1 1	s (causing obv	iously different moveme	ents), and these movements are
10% At l	east one kind of assembly m	nict have two	or more sequential mo	wing joints with the two
sequential	•	ıs. (e.g. robot l	head that turns, nods, and	d tilts is still just 1 joint; arm tha
10% Key	yboard Interaction:			
One keyboard i	or more on-screen part(s) or a	assembly(ies)	change visibly & obviou	asly in response to various
•	•			
	use-Drag Interaction: ore on-screen part(s) or assemb	hlv(ies) make	on-screen movements th	nat match mouse-drag amounts.
	le, translate an assembly by th			
EXTRA	CREDIT:			
	o 2%: add webpage controls &			(sliders, menus; try dat.gui?)
	o 2%: user-adjustable color for o 2%: user-adjustable flex-ang			one rigid 3D part in an assembl
up to	2%: accurate 'Scene Graph'	diagram that i	includes all rigid 3D part	s and all assemblies in the scene
	=====TOTAL POINTS/10	00	(30% of final grade)	