Student'	's NetID letters 2 die		ne_ rite clearly; make it easy to	Grader's Name	
Con	npSci 351			Project C	Spr 2021 J. Tumblin 05/16/2022
5% Filenames, PDF report: All file-naming correct + clear illustrated PDF report including name, netID, title, goals, userguide, >= 4 results pictures, + correct sketch of your program's scene-graph (required) showing all its transforms (2pts).					
				s on-screen display allows n lp from source code, report,	ew users to quickly and easily or authors' explanations.
to all dista	ant horizons, and thus	let us easily assess ch	anges to camera positi	ain' of repeated shapes or lin on and aiming direction. ans x,y coords that appear h	nes that extend nearly endlessly orizontal on-screen.
5% Large, Slowly-spinning Sphere at world-space origin to visually confirm all lighting and shading methods. Sphere is easily viewable and easily lit from any desired 3D location. Rotation helps reveals faceted/smooth effect of Gouraud/Phong shading.					
5% Single-Viewport Display fills top 66% of browser window of any shape. Browser window resizing always keeps it filled with an undistorted image from a perspective camera with 30-degree vertical field-of-view; no shape distortions, no blank areas allowed except a fixed-height or fixed-width border & a region to hold HTML buttons, text, edit boxes, etc.; no browser 'slider bars'!					
any direct	tion without changing	position: be able to m	ove forward/backward	l in the gaze direction, and 's	trol: be able to aim camera in strafe' sideways left/right from move fwd/rev, strafe left/right).
	10% 3 or more obvious aterials have specified	d RGB values for amb	bient, diffuse, specular	ed on different rigid 3D part and emissive terms. n starter code file "materi	
switch lig	tht on/off, and set separ	rate R,G,B values for	each of the ambient, of		set world-space position, nounts. Surface illumination to shift as the camera moves).
	10% Interactive swite topping or disrupting the			ng methods (requires at leas	t two to earn this credit)
each of th crudely-sl	nese, they can also sele haped highlights: Phon	ct between Phong ligh g shading yields roun	nting and Blinn-Phong nded highlights that ca	elect between Gouraud Shad lighting; more methods wel n be smaller than triangles. I erent GLSL shaders for Gou	come. Gouraud shading gives Blinn-Phong lighting and
EXTRA (CREDIT:				
2	2% extra credit: 3 or m (must include 4% extra credit: A seco (when correct 2% extra credit: geome vs. z; sinusoid	ore user-selected districtions, 'headlight' light- the specular highlight tric shape distortions al waviness etc. will of	ance dependencies (A' IE, 1/dist, and 1/dist ² , source, co-located at courts stay in the middle of in shaders, not reprodualify, but simple sea	TT) for your light sources: with dist calc'd at each verte amera eyepoint, that users cof any shiny sphere as camer ucible by matrix transforms	an switch on/off a moves) in Vertex Shader (e.g. twist cted vertices will not suffice)
	TOTAL POI	NTS/100	(30% of final grade)		