Student's NetID	Student's N		Grader's Name	
	3 letters, 3 digits: e.g. JET861 Pleas	•		
CompSci	<b>351-1 Gradi</b>	ng Sheet:	Project C	Fall 2022
•			CS编程轴	
400/ 7 (7)				用丁
10% In-Cla	ss Interactive Demo. Demo	instrates multiple items l	listed on this page.	
5% Filenan	nes, PDF repared All Elemen	ect + clear illu	strated PDF report including	g name, netID, title, goals, user-
guide, >= 4 results pic			h (required) showing all its	
<b>20</b> / G <b>33</b>				
identify and use all th	e, Complete	_	elp from source code, repor	new users to quickly and easily
identity and use an in	c programs if	<b>1 1 1 1 1 1 1 1 1 1</b>	cip from source code, repor	i, or authors explanations.
	-Plane Grid			lines that extend nearly endlessly
to all distant horizons			tion and aiming direction.	to all and the second
In the world coordina	te system wh	plane at z=0 s	pans x,y coords that appear	norizontal on-screen.
10% ≥3 Sol	lid, Separate, Jointed, Cont	inually Flexing Shapes	with Diffuse Shading or H	Better:
	, different ground-plane loca			
50/ T 6	WeCl	nat: estut	Orcs	data d'accorda de Calcarda
				d shading methods. Sphere is ect of Gouraud/Phong shading.
casily viewable and c	asily in from any desired 3D	rocation. Rotation help	s reveals faceted/simooth eff	cet of Gouradd/Thong shading.
5% Single-V	Viewport Display fills top 60	5% of browser window	of any shape. Browser wi	ndow resizing always keeps it
filled with an undistor	rted image from a perspective	e childra with 80-de rec	verlight field of new no	have distorious, roblank areas s, etc.; no browser 'slider bars'!
anowed except a fixed	u-neight of fixed-width bords	a region to note H1	IVIL Buttons, text, ean boxe	s, etc., no blowser slider bars !
5% Smooth	ly adjustable 3D View Con	trol: User interaction f	or unrestricted viewpoint co	ontrol: be able to aim camera in
any direction without	changing position: be able to	move forward/packwai	r (in) he gaze derection, and	trafe' sideways left/right from
any 3D position; (HIN	NT: 'glass cylinder' method;	mouse of arrow-key aim	ning (tilt, yaw) and WASD to	move fwd/rev, strafe left/right).
10% 3 or m	ore obviously different-lool	king Phong Materials <b>v</b>	used on different rigid 3D pa	arts.
	ve specified RGB values for a	mbjent diffrse spegula	and emissive terms.	
	HINT: ase ma	teridis parameters given	in starter code file "mate	rials_Ayerdi04.js"
<b>10%</b> One or	more user-adjustable, non-	directional 3D light so	urce. Users can interactive	ly set world-space position.
switch light on/off, ar	nd set separate R.G.B values	for each of the ambient,	diffuse, and specular light a	mounts. Surface illumination
from this light must N	NOT change where tailoughic	west (hat that specular	lighting from sition will appe	ar to shift as the camera moves).
	ctive switching between all			
	isrupting the program or its c		ing methods (requires at re	ast two to carn this credit)
				ding and Phong Shading; for
	n also select between Phong ghts: Phong shading yields re			elcome. Gouraud shading gives
	slightly different specular high			
				0 0
EXTRA CREDIT:				
2% extra cre	dit: user-switched materials t	for $\geq$ one 3D part. (>10	visually distinct mat'l choic	es; no effect on other 3D parts),
2% extra cre	dit: 3 or more user-selected of	distance dependencies (A	ATT) for your light sources:	-
	ist include choice between N			
	dit: A second, 'headlight' lig en correct, the specular high			
				s in Vertex Shader (e.g. twist
VS.	z; sinusoidal waviness etc. w	rill qualify, but simple so	caling or displacement of sel	lected vertices will not suffice)
4% extra cre	dit: Simple Texture Maps on	surface of one or more	3D parts (Chap 5-like; emis	sive-only shading is OK).
то	TAL POINTS/100	(30% of final grade)		